December 15, 2017

VIA RESS AND COURIER

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
2300 Yonge Street
26th Floor, Box 2319
Toronto, ON M4P 1E4

Dear Ms. Walli;

RE: APPLICATION BY ALECTRA UTILITIES CORPORATION FOR DISTRIBUTION RATES EFFECTIVE JANUARY 1, 2018 (EB-2017-0024) – RESPONSES TO INTERROGATORIES AND REQUEST FOR CONFIDENTIAL TREATMENT RE INTERROGATORY RESPONSES

The Ontario Energy Board ("OEB" or the "Board") held a two day Technical Conference on November 30, 2017 and December 1, 2017 regarding the application filed by Alectra Utilities Corporation ("Alectra Utilities") for electricity distribution rates effective January 1, 2017.

Alectra Utilities is hereby filing its responses to undertakings arising from the Technical Conference, pursuant to Procedural Order #3.

The responses are being filed electronically through the OEB's RESS system. In addition, two hard copies are being provided via courier. Included with the electronic filing are live Excel models for the following responses:

JTStaff-1	2018 Cost of Power Calculation
JTStaff-2	IRM Model Enersource RZ
JTStaff-3	IRM Model Horizon Utilities RZ
JTStaff-5	GA Workform
	IRM Model PowerStream RZ
	IRM RGM PowerStream RZ
JTStaff-8	LRAMVA Workform Horizon Utilities RZ
	LRAMVA Workform PowerStream RZ

	LRAMVA Workform Enersource RZ
JT2.11	PRZ-AMPCO-18 Appendix A
JT2.16	ERZ-AMPCO-6 Appendix B
JT2.19	Updated Table 55 - Material Projects Enersource RZ 2017-2022
JT2.20	ERZ-AMPCO-17 Appendix D

Yours truly,

[Original Signed By]

Indy J. Butany-DeSouza, MBA
Vice President, Regulatory Affairs
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indy.butany@alectrautilities.com

cc: Crawford Smith, Torys
Charles Keizer, Torys

ATTACHMENT "A"

NON-CONFIDENTIAL SUMMARY OF THE INFORMATION FOR WHICH CONFIDENTIAL TREATMENT IS REQUESTED

Non-Confidential Summary

The confidential information consists of a third party service proposal for the purpose of carrying out customer consultation activities and associated analysis and reporting. In particular, this proposal sets out the detailed methodology and work plan to be followed by the third party service provider (Innovative Research Group) as well as the pricing applicable to various components of work. Given that such information was obtained from or supplied by a third party to Alectra Utilies in confidence, it should not be made public without that party's consent. Further, the disclosure of the terms and pricing of the proposal – which resulted from an extensive process of competitive bidding and negotiations – could prejudice the respective competitive position of Alectra Utilities and the third party service provider in terms of future negotiations to procure or provide similar services. For these reasons, the particular harm to the parties involved outweigh the benefit to the public of disclosure.

ATTACHMENT "B"

CONFIDENTIAL MATERIALS IN RESPONSE TO BOMA IR #12

[FILED IN CONFIDENCE]

JT.1.1

a) Please provide the 2016 cable study

Response:

a) The 2016 Cable Study for the Enersource Rate Zone is attached as JT1.1_Attach 1_ERZ 2016 Cable Failure Study Report.

enersource

more than energy™

Cable Failure Study Report

Asset Planning & Analysis

May 2016

Summary:

This report is a review of an initiatives executed in January of 2014 and completed in March of 2016 to review cable failures on the Enersource distribution system. This report provides some historical context on the significant issue Enersource faces in regards to cable failures as well as the methodology undertaken to study this issue. The analysis focuses on the results from implementing two initiatives in regards to cable failure tracking and trending. Lastly, the recommendations focus on Enersource 'Go Forward' strategy in regards to: Spot Cable Replacements for single cables causing customers significant outages, a Rebuild Planning philosophy rooted in Enersource's overlay methodology and challenges around implementation of Cable Injection.

Background:

Since 2013, Enersource began seeing an increasing trend in customer minutes of interruption related to cable failures. The number of cable failures was also well above 100 failures per year from 2013 to 2015. In comparison to surrounding Utilities, Enersource was not only seeing more cable related failures but a significant contribution to SAIDI from cable failures.

Enersource was experiencing more underground cable failures than any other equipment on their distribution system; with over 100 cables failures year over year, see Table 1 for details.

Table 1: Cable Failures per year 2013-2015

Year	2013	2014	2015
Cable Failures Per Year	133	112	176

Customer minutes due to cable failures accounted for more than 40% of all equipment failures for 2013-2015 see Table 2 for details.

Table 2: Cable Failures in comparison to Defective Equipment

	2013	2014	2015
Defective Equipment	3,763,595	3,808,219	4,459,328
Cable Failure Minutes	1,720,513	1,610,094	2,932,127
Cable Failure as a % of Defective Equipment	46%	42%	66%

In 2013, Enersource's Vice President, Asset Management asked the Asset Planning & Analysis group to investigation this issue and determine if there is a specific project that can be executed to reduce this increase trend.

A project was initiated with Asset Planning & Analysis beginning to review the Geographical Information System (GIS) which also serves as the Asset Repository for information on cables. Unfortunately, installation and cable details were not listed in the GIS, and other than the installation information; no other details could be obtained.

The Asset Condition Assessment (ACA) was reviewed next; this provided some context on the types of cables and estimate install years. Enersource breaks out primary cables into two classes, 1 for Main Feeder Cables and Distribution Cables. Main feeder cables account for all cables larger than and including 250 kcmil, while all Distribution cables are smaller than this size. The ACA also provided context on installation details, all cables before 1989 were considered to be of XLPE construction and direct buried. All cables installed from 1989 to 1993 were considered to be TRXLPE but still direct buried. Lastly all cables newer then 1993 were

considered to be TRXLPE installed in duct. A breakdown of the age of the Main Feeder and Distribution cables are provided in Figure 1 and Figure 2.

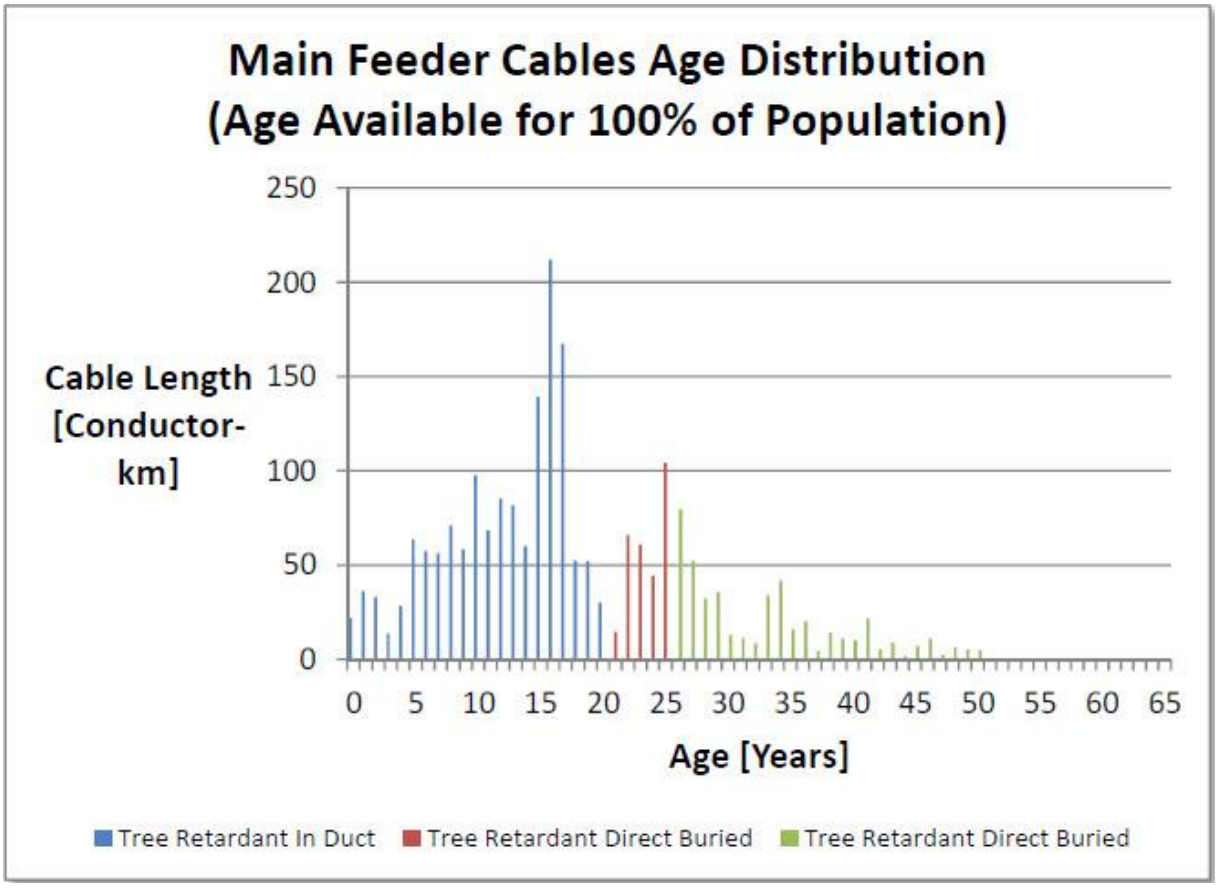


Figure 1: Main Feeder Cables Age Distribution

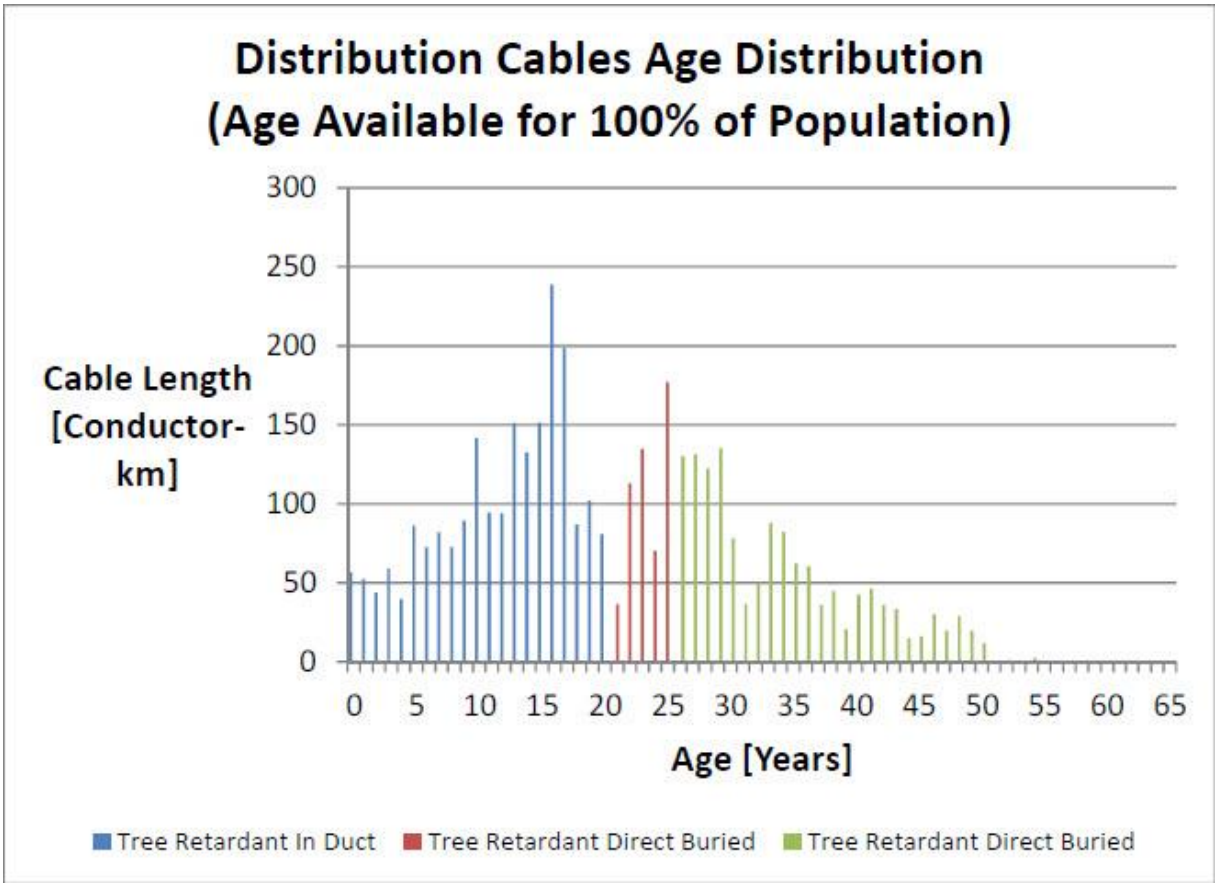


Figure 2: Distribution Cables Age Distribution

Lastly, a review of the outage database was completed and while details in terms of the number of customer effected, outage duration, feeder and location could be provided, very few details relating to cable specifics could be accessed without reviewing each incident individually.

To fill these gaps several initiatives were undertaken to provide staff with the necessary data to generate useful conclusions. In the Methodology section below the details of these initiatives will be discussed.

Methodology:

To resolve some of the data issues Enersource had with respect to cable data two initiatives were undertaken, they consisted of: Outage Location Mapping and Equipment Failure Tracking

Outage Location Mapping

Using the outage management software the locations of the cable faults would be mapped to determine if the outages were location specific to allow for targeted rebuilds.

Equipment Failure Tracking

To determine what kind of cables were failing, and the reason for failure, Enersource crews were asked to bring a small sample of each failed cables into the office, see Figure 3 for details. However, there was difficultly in implementation and only 124 cable failure samples out of 295 cable failures from January 2014 to March 31st, 2016 were collected. This represented 42% of the failed cables during the period.

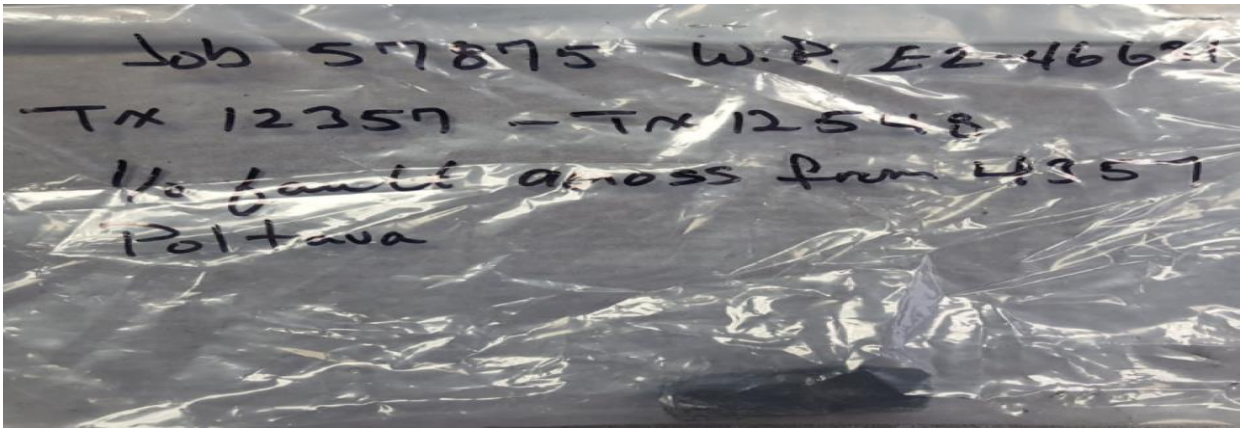


Figure 3: Sample Collected for investigation

Analysis:

Outage Location Mapping

The outage location mapping was very successful, Enersource staff were quickly able to pinpoint subdivisions with significant failures, as well as provide details on emerging areas. Some of this data was reused to develop a tracking sheet of cable segment with multiple cable faults. Based on discussion with field staff and Asset Management it was agreed that based on the data certain cable segments needed to be considered for spot replacement rather than waiting for a complete rebuild. Furthermore, the need to justify a rebuild required more than cable failure data. Using the overlay methodology issues relating to other assets like transformers (leaking, PCB) were included. See Figure 4 for the 2014 Underground Rebuild Overlay Map that includes cable failure locations.

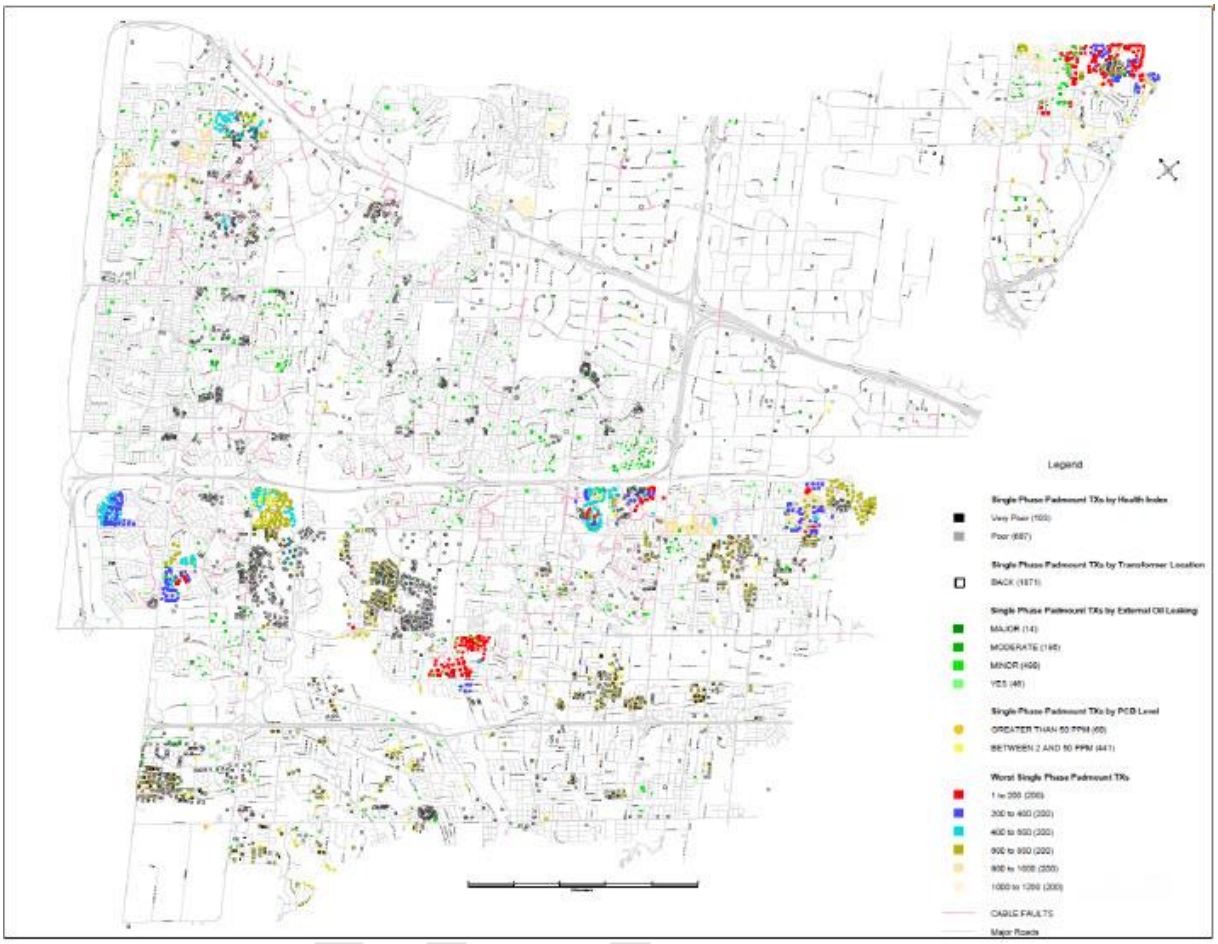


Figure 4: Underground Rebuild Overlay Map

Equipment Failure Tracking

This information proved extremely useful in providing a clear picture of Enersource's assets and issues. The two main points of the analysis and their related issues are outlined below:

Tree Retardant and Non-Tree Retardant XLPE.

Underground medium voltage (5-69 kV) cables and cable accessories have undergone many changes over the last 65 years. Initially, most cables used were of the PILC design (oil-filled, paper-insulated, lead covered). These cables had many good properties, but they were heavy and required especially skilled utility personnel to splice and terminate because of the lead sheath. They were also susceptible to failure due to water ingress. If the lead shield failed moisture could penetrate into the insulation and result in failures. Other polymeric insulations were tried including butyl rubber (very unsuccessful in damp applications), polyethylene (PE), cross-linked polyethylene (XLPE), and various EPRs (rubber). Problems were found because even polymeric insulations were degraded in the presence of moisture and high electric fields.

It was also found that the processing of the polymeric insulations required much more attention than was originally thought. This led to a number of improvements in cable design and manufacture over the year including the use of water tree retardant materials to overcome some of the issues related to consistent moisture. This also meant that older designs of cable were more susceptible to degradation and failure. What the analysis found was the overwhelming majority of cable failures were cables older than 1989. The average age of cables for each year of the study period are provided below:

Annual Average Failed Cable age in 2016	36.1 ≈ 37 years
Annual Average Failed Cable age in 2015	36.2 ≈ 37 years
Annual Average Failed Cable age in 2014	32.7 ≈ 33 years

These cables were non-tree retardant first generation XLPE cables. Furthermore many of these cables were unjacketed, meaning there was no exterior protection for the cables or neutral conductors. Exposed neutral conductors could mean many cables could have suffered some form of neutral corrosion. Figure 5 shows a failed cable with a large void where the cable fault occurred, it is also evident that this cable has no outer jacket, the concentric neutrals are frayed and no longer intact.

Figure 5: Direct buried conductors without a jacket, solid or stranded - 1/0 & main feeder

Styles of Cable

Enersource has referred to types of cable being Non-TRXLPE and TRXLPE construction what was not evident until obtaining failed cable segments is what Enersource refers to as the style of cable. Cables can come in several styles relating to both conductor and neutral construction. Figures 6-9 show various cable types and the failure rates from the analysis.

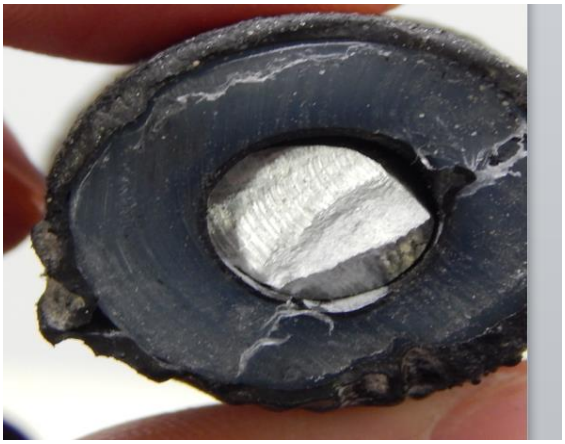


Figure 6: Solid Conductor - 1/0 – AL (62.1% failure rate)

Figure 7: Stranded Conductor - 1/0 and Main feeder – CU (16.9% failure rate)

Figure 8: Stranded Conductor - 1/0 – AL (1.6% failure rate)

Figure 9: Stranded Conductor - Main feeder – AL (19.4% failure rate)

Enersource Asset Planning & Analysis staff were not aware of the number of styles of cable that had been installed over the years. The use of aluminium cable, especially first generation if not properly installed can easily fail in contrast to copper cable. Cable manufacturers as well as installation practices have made changes to make the use of aluminium cables far more palatable for Utilities. Lastly it was determined that 95.2% of cables that failed are direct buried (not in ducts) and without cable jacket.

Recommendation:

Based on the analysis three recommendations were made: Spot Replacements, Rebuild Planning, and Cable Injection.

Spot Replacements:

Based on the outage mapping information and injection Asset Operations it was decided that cables with significant number of faults and no longer suitable for splice repairs would be flagged as cables for spot replacement if the majority of cables in the surrounding area were not also seeing faults. These spot replacements would be completed via directional bore to replace only the effected cable. It was agreed that due to the simplicity of the operation the outage map would be continuously updated.

Rebuild Planning:

Plans for underground rebuilds would focus on the use of the overlay methodology. Using the outage map areas with a significant number of cable faults would be grouped as candidate areas. These areas would then be reviewed for any leaking transformers, rusting transformers, transformers with PCB's. ACA results for transformers in very poor and poor condition would also be included. Areas with worsening condition would be prioritized first (i.e. areas with cables and transformers in need of attention would be replaced over areas with only cables). Rebuild areas would also be reviewed by Design technicians with specific planning expertise to determine if the rebuild can be completed more efficiently.

Cable Injection

Enersource faces three major factors that imped the consideration of cable injection, they are the solid core cable construction, cost increases due to the number of splices and corroded neutrals.

Solid core cables cannot be injected because the fluid must be able to flow through the cable strands. As the majority of cables found were solid core they cannot be injected. It should be noted that for cables in the mid 1990s Enersource began using water-blocked (strand filled) cable to prevent water from moving longitudinally along the strands. This also prevents cable injection.

For cables which are not solid core, Time Domain Reflector (TDR) tracing can be used to identify any neutral corrosion on the circuit. If neutral corrosion is identified the cable circuit is not considered to be a good candidate for injection. Since the majority of cables were unjacketed there is a significant likelihood that many of the neutrals will be compromised which would limit the benefits of effectiveness of cable injection.

The cable injection process requires the injection fluid to flow along the entire length of cable from end to end. Where original splices exist, these need to be removed and replaced with splices that allow the fluid to flow. The cables in these areas have seen many outages, meaning that many have more the one splice. There are additional costs and difficulties to accurately locate and replace these splices.

While some cables with only one fault or no faults may see benefit from injection due to the overwhelming issues listed above the existing approach to rebuild an entire area is recommended.

There are significant consequences for cables that suffer neutral corrosion. The loss of the defined, low-impedance path for charging currents may result in currents along “unintended” paths. This could result in step potential, which is a safety concern. While no incidents have occurred yet is not possible to rule out this situation. Step potential occurs when a person’s legs are at two separate points at different voltage levels. If the potential difference between the two points is large enough electricity will flow through a person to reach the lower potential. Figure 10 provides an illustration of step potential this situation can also be referred to as stray voltage.

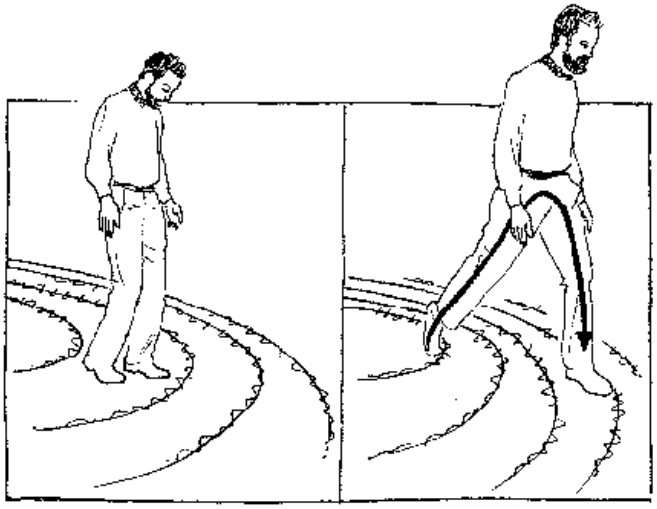


Figure 10: Step Potential

The concentric neutral on a cable is also used to carry any loading imbalance and fault current back to ground. Besides the step potential scenario outlined above if the neutral isn’t effective then protection devices like relays or fuses may not work correctly. Protection systems use a phase to neutral the neutral method where both phase and neutral imbalance is monitored. For example if the neutral current increases while a phase current decreases or drops to 0 that is a clear sign a single phase fault has occurred and the effected phase should be opened to prevent equipment damage. If cables were injected but the neutrals were compromised then the cable could still fail due to a fault protection system not clearing a fault in time.

JT.1.2

a) To provide the calculation that took the City of Mississauga employment projection and transformed it into a load growth projection.

Response:

a) Alectra Utilities provided the Meadowvale Business Park Employment Forecast at page 72 of Exhibit 3, Tab 1, Schedule 1, Attachment 47, Figure 20. In that forecast[1], the City of Mississauga projected over 10,000 new jobs in the Meadowvale Business Park over a ten year period, which reflects approximately 1,000 new jobs per year over the planning period from 2017 to 2021.

Based on Schedule 12 of the 2015 Regional Municipality of Peel Development Charge Background Study[2] report, an urban employment district such as the Meadowvale Business Park was determined to require a work floor area of 67 square meters per employee. Schedule 12 of the report is reproduced below.

Schedule 12
Region Municipality of Peel
Urban and Rural Areas
Gross Floor Area Forecast Summary (Sq.m), 2015 - 2031

Development Location		Industrial	Other Employment[1]	Total Usual Place of Work[2]
Urban	Employment	40,260	109,800	150,060
	Average F.S.W.	149	37	67
	G.F.A. (Sq. m)	6,011,160	4,114,010	10,125,170

Based on the 67m^2/ job rate, it was determined that 1,000 new employment positions would require approximately 67,000 m^2 of work space in the Meadowvale Business Park.

For urban employment work space, Alectra Utilities utilizes load demand of 68 Watts per m^2 area. Hence, the product of 67,000 m^2 of work space per year and 68 Watts per m^2, is 4.55

[1] https://mississauga.maps.arcgis.com/apps/MapSeries/index.html?appid=2103d1a57cf044a3ab801950bc174686
[2] https://www.peelregion.ca/finance/PDFs/Peel-DC-study-may-13.pdf

MW demand load growth per year. Over the five year planning period, the product of 4.55 MW per year growth is 22.75 MW, which is equivalent to 24.72 MVA.

Further, Alectra Utilities incorporated a 5% reduction of peak demand due to Conservation and Demand Side Management and an additional 5% from energy efficiencies from natural conservation such as improved building construction codes and standards.

Considering a 90% diversity factor and a 10% conservation reduction (combined program and natural conservation), the total growth projected in the Meadowvale Business Park was determined to be 20.02 MVA, as provided in the calculation below.

$$5\ Year\ Load\ Growth\ in\ Meadowvale\ Business\ Park = 24.72\ MVA\ \times 0.9\ \times 0.9$$
$$= 20.02\ MVA$$

JT.1.3

a) To file the quantitative analysis; To confirm that there was no memo of any discussion with management.

Response:

a) The quantitative assessment of the reliability impact for the scenarios presented in the Customer Engagement for the Enersource Rate Zone is provided as JT1.3_Attach 1_ERZ Reliability Impact Assessment for ICM Project Funding.

The reliability impact assessment for the ERZ was based on outage projections from project business cases which were developed in April 2016.

Alectra Utilities confirms that there was no report or memo to Management. The outcome of the analysis was discussed at meetings when considering the customer engagement survey.

ERZ Reliability Impact Assessment - ICM Funding

Montevideo	Creditwoodlands	Tenth	Folkway	Battleford	Appledore 1	Boughbeeches 1	Lake	Church	Munden and Pear	Holburne/Ogden	Southdown ROW	Courtney Park	Churchill Meadows	Stanfield	Derry - Argentia	Bloor	Hensall	Park Royal	Western
0.07	0.02	0.77	0.23	0.03	0.07	0.03	0.39	0.39	0.20	0.39	0.39	0.39	0.39	0.39	0.39	0.19	0.32	0.32	0.19
0.15	0.04	1.55	0.46	0.05	0.15	0.05	0.78	0.78	0.39	0.78	0.78	0.78	0.78	0.78	0.78	0.39	0.63	0.63	0.39
0.22	0.06	2.32	0.69	0.08	0.22	0.08	1.17	1.17	0.59	1.17	1.17	1.17	1.17	1.17	1.17	0.58	0.95	0.95	0.58
0.29	0.08	3.10	0.92	0.10	0.29	0.10	1.56	1.56	0.78	1.56	1.56	1.56	1.56	1.56	1.56	0.77	1.27	1.27	0.77

	Eventually Declines		Could Decline Signifacantly		Eventually Declines		Could Decline Significantly	
	Low Failure Rate	High Failure Rate	Low Failure Rate	High Failure Rate	Low Failure Rate	High Failure Rate	Low Failure Rate	High Failure Rate
Year 1	0.45	1.22	1.22	1.40	0.93%	2.52%	2.52%	2.88%
Year 2	1.22	2.35	1.40	2.82	2.52%	4.84%	2.88%	5.80%
Year 3	1.74	3.09	2.18	3.75	3.58%	6.37%	4.48%	7.73%
Year 4	2.48	4.51	2.52	5.58	5.10%	9.29%	5.18%	11.51%
Year 5	3.50	6.06	4.13	7.55	7.22%	12.50%	8.51%	15.57%

Glen Erin & Montevideo - C0505-1

Total number of customers	Total Number of Customers Minutes(2016)	SAIDI-2016[min]	Cable Failures	Customers Affected	Customer Minutes	Cable Failures	Number of customers	Customer Outage Minutes	SAIDI [min]	SAIDI [min] Alectra (Enersource)	SAIDI[min] Variation
204,758	9,935,000	48.52	16	3,064	308,531	1.00	139	15,000	107.91	48.59	0.07
						2.00	278	30,000	215.83	48.67	0.15
						3.00	417	45,000	323.74	48.74	0.22
						4.00	556	60,000	431.65	48.81	0.29

Credit Woodlands Crt - C0505-2

Total number of customers	Total Number of Customers Minutes(2016)	SAIDI-2016[min]	Cable Failures	Customers Affected	Customer Minutes	Cable Failures	Number of customers	Customer Outage Minutes	SAIDI [min]	SAIDI [min] Alectra (Enersource)	SAIDI[min] Variation
204,758	9,935,000	48.52	6	814	22,531	1.00	90	4,300	47.78	48.54	0.02
						2.00	180	8,600	95.56	48.56	0.04
						3.00	270	12,900	143.33	48.58	0.06
						4.00	360	17,200	191.11	48.60	0.08

Tenth Line Main - C0505-3

Total number of customers	Total Number of Customers Minutes(2016)	SAIDI-2016[min]	Cable Failures	Customers Affected	Customer Minutes	Cable Failures	Number of customers	Customer Outage Minutes	SAIDI [min]	SAIDI [min] Alectra (Enersource)	SAIDI[min] Variation
204,758	9,935,000	48.52	4	10,758	512,012	1.00	3,590	158,465	44.14	49.29	0.77
						2.00	7,180	316,930	88.28	50.07	1.55
						3.00	10,770	475,395	132.42	50.84	2.32
						4.00	14,360	633,860	176.56	51.62	3.10

Folway & Erin Mills - C0505-4

Total number of customers	Total Number of Customers Minutes(2016)	SAIDI-2016[min]	Cable Failures	Customers Affected	Customer Minutes	Cable Failures	Number of customers	Customer Outage Minutes	SAIDI [min]	SAIDI [min] Alectra (Enersource)	SAIDI[min] Variation
204,758.00	9,935,000	48.52	5	6,220	278,119	1.00	1,260	47,300	37.54	48.75	0.23
						2.00	2,520	94,600	75.08	48.98	0.46
						3.00	3,780	141,900	112.62	49.21	0.69
						4.00	5,040	189,200	150.16	49.44	0.92

Glen Erin & Battleford - C0505-5

Total number of customers	Total Number of Customers Minutes(2016)	SAIDI-2016[min]	Cable Failures	Customers Affected	Customer Minutes	Cable Failures	Number of customers	Customer Outage Minutes	SAIDI [min]	SAIDI [min] Alectra (Enersource)	SAIDI[min] Variation
204,758	9,935,000.00	49	4	2,572	191139.00	1.00	40	5,300	132.50	48.55	0.03
						2.00	80	10,600	265.00	48.57	0.05
						3.00	120	15,900	397.50	48.60	0.08
						4.00	160	21,200	530.00	48.62	0.10

OH Lake John - C0561-1

Total number of customers	Total Number of Customers Minutes(2016)	SAIDI-2016[min]	Cable Failures	Customers Affected	Customer Minutes	Cable Failures	Number of customers	Customer Outage Minutes	SAIDI [min]	SAIDI [min] Alectra (Enersource)	SAIDI[min] Variation
204,758.00	9,935,000.00	48.52	NA	NA	NA	1.00	4,000	80,000	20.00	48.91	0.39
						2.00	8,000	160,000	40.00	49.30	0.78
						3.00	12,000	240,000	60.00	49.69	1.17
						4.00	16,000	320,000	80.00	50.08	1.56

OH Church - C0561-2

Total number of customers	Total Number of Customers Minutes(2016)	SAIDI-2016[min]	Cable Failures	Customers Affected	Customer Minutes	Cable Failures	Number of customers	Customer Outage Minutes	SAIDI [min]	SAIDI [min] Alectra (Enersource)	SAIDI[min] Variation
204,758.00	9,935,000.00	48.52	NA	NA	NA	1.00	4,000	80,000	20.00	48.91	0.39
						2.00	8,000	160,000	40.00	49.30	0.78
						3.00	12,000	240,000	60.00	49.69	1.17
						4.00	16,000	320,000	80.00	50.08	1.56

JT.1.4

a) To provide an evaluation of the SAIDI impacts of the cable failures.

Response:

a) Please see below charts showing the SAIDI impact on each subdivision for cable failures only.

Table 1 – SAIDI for Cable Failures (2011-2016)

Glen Erin & Montevideo						
Year	2011	2012	2013	2014	2015	2016
SAIDI	72.74	0	163.64	41.95	183.58	746.16
Credit Woodlands						
Year	2011	2012	2013	2014	2015	2016
SAIDI	25.4	87.47	45.2	0	19.47	73.47
Tenth Line						
Year	2011	2012	2013	2014	2015	2016
SAIDI	1.93	31.63	0	10.51	50.01	9.85
Glen Erin & Battleford						
Year	2011	2012	2013	2014	2015	2016
SAIDI	131.83	189.9	519.11	21.31	632.25	2320.98
Folkway & Erin Mills						
Year	2011	2012	2013	2014	2015	2016
SAIDI	80.35	164.43	113.07	89.74	503.39	218.56
City Centre Drive						
Year	2011	2012	2013	2014	2015	2016
SAIDI	0	0	0	0	0	0
Appledore						
Year	2011	2012	2013	2014	2015	2016
SAIDI	35.72	85.54	35.28	75.24	149.61	149.19
BoughBeeches						
Year	2011	2012	2013	2014	2015	2016
SAIDI	55.09	48.67	102.25	297.53	200.8	298.07
Copenhagen						
Year	2011	2012	2013	2014	2015	2016
SAIDI	32.28	0	52.41	28.26	86.43	484.13
Gananoque						
Year	2011	2012	2013	2014	2015	2016
SAIDI	220.47	167.98	79.6	11.42	14.84	236.5

JT.1.5

To provide a load and customer connection growth forecast from Hydro One Brampton; to compare it to what actually happened.

Response:

The demand forecast that formed the basis of the Pleasant TS CCRA agreement was developed based on legacy Hydro One Brampton's 2006 Forecast. For system station planning, Hydro One Brampton established a projected growth rate based on experienced customer additions, station capacity limits as well as peak demand based on historical trends. As illustrated in Figure 1, Hydro One Brampton added approximately 31,350 customers between 2001 and 2005, accounting for an annual average customer growth rate of 6.5%.

Figure 1 – Customer Additions for the Hydro One Brampton from 2000-2016

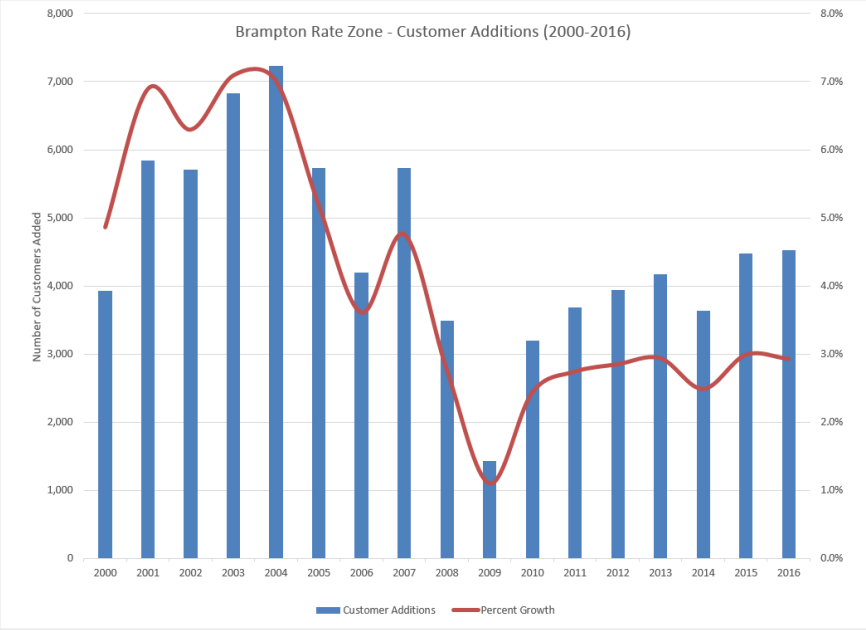


Table 1 provides the actual and forecast system peaks for Hydro One Brampton for the period from 1999 to 2012 based on Hydro One Brampton's 2006 Forecast. For the five year period between 2002 and 2006, Hydro One Brampton experienced an annual average summer peak demand growth of 4.8%. When considering the monthly average demands for the same period between 2002 and 2006, Hydro One Brampton experienced an annual average growth of 4.5%. Based on experienced customer additions as well as actual peak demands on the system,

Hydro One Brampton set a growth rate of 2.6% for 2007, gradually increasing to 3.5% for 2008, 4.0% in both 2009 and 2010 and 3% for 2012 onward.

Table 1 – Actual and Forecast System Peaks for Hydro One Brampton from 1999 to 2012 from the 2006 Demand Forecast

	1999 Actual	2000 Actual	2001 Actual	2002 Actual	2003 Actual	2004 Actual	2005 Actual	2006 Actual	2007 Forecast	2008 Forecast	2009 Forecast	2010 Forecast	2011 Forecast	2012 Forecast
Monthly Ave (MW)	462	483	509	551	540	561	596	633	649	672	698	726	752	774
Annual Growth		**4.5%**	**5.5%**	**8.2%**	**-2.0%**	**3.9%**	**6.3%**	**6.1%**	**2.6%**	**3.5%**	**4.0%**	**4.0%**	**3.5%**	**3.0%**
Summer Peak(MW)	546	555	629	656	662	646	731	790	810	838	872	907	939	967
Annual Growth		**1.6%**	**13.5%**	**4.2%**	**0.9%**	**-2.4%**	**13.2%**	**8.0%**	**2.6%**	**3.5%**	**4.0%**	**4.0%**	**3.5%**	**3.0%**
Winter Peak (MW)	477	502	507	540	546	579	593	610	635	657	684	711	736	758
Annual Growth		**5.2%**	**1.0%**	**6.5%**	**1.2%**	**6.0%**	**2.5%**	**2.8%**	**4.1%**	**3.5%**	**4.0%**	**4.0%**	**3.5%**	**3.0%**

Based on the forecast annual growth rates, Hydro One Brampton established a system peak forecast for the entire 27.6kV distribution system and allocated the demand based on stations, considering capacity limits for each station. Table 2 provides the forecasted 27.6kV system peak demand and allocation amongst transformer stations, including the New Pleasant TS 27.6kV DESN. It is important to note that in 2005 and 2006, Hydro One Brampton experienced a 14% and 12% annual peak demand growth, respectively.

Table 2 – Actual and Forecasted 27.6kV System for Hydro One Brampton (2005-2031) from the 2006 Demand Forecast

Year	Status	Load Growth	Total 27.6kV System (MW)	Goreway TS 27.6 (MW)	Bramalea TS 27.6 (MW)	Jim Yarrow TS 27.6 (MW)	Existing Pleasant TS 27.6kV DESN (MW)	New Pleasant TS 27.6 DESN (MW)
2005	Actual	14.1%	541.8	153.9	73.9	103.4	210.6	
2006	Actual	12.1%	607.6	175.7	77.4	149.3	205.2	
2007	Forecast	2.6%	623.3	179.5	83.3	162.5	198.0	
2008	Forecast	3.5%	645.2	181.0	91.0	150.0	198.0	25.2
2009	Forecast	4.0%	671.0	193.1	82.6	150.0	198.0	47.3
2010	Forecast	4.0%	697.8	202.1	82.6	150.0	198.0	65.1
2011	Forecast	3.5%	722.2	210.3	82.6	150.0	198.0	81.3
2012	Forecast	3.0%	743.9	217.6	82.6	150.0	198.0	95.7
2013	Forecast	3.0%	766.2	225.1	82.6	150.0	198.0	110.5
2014	Forecast	3.0%	789.2	232.9	82.6	150.0	198.0	125.7
2015	Forecast	3.0%	812.9	240.9	82.6	150.0	198.0	141.4
2016	Forecast	3.0%	837.3	249.1	82.6	150.0	198.0	157.6
2017	Forecast	3.0%	862.4	257.6	82.6	150.0	198.0	174.2
2018	Forecast	3.0%	888.2	266.3	82.6	150.0	198.0	191.4
2019	Forecast	3.0%	914.9	275.3	82.6	150.0	198.0	209.0
2020	Forecast	3.0%	942.3	284.5	82.6	150.0	198.0	227.2
2021	Forecast	3.0%	970.6	294.0	82.6	150.0	198.0	246.0
2022	Forecast	3.0%	999.7	303.8	82.6	150.0	198.0	265.3
2023	Forecast	3.0%	1,029.7	313.9	82.6	150.0	198.0	285.2
2024	Forecast	3.0%	1,060.6	324.4	82.6	150.0	198.0	305.7
2025	Forecast	3.0%	1,092.4	335.1	82.6	150.0	198.0	326.7
2026	Forecast	3.0%	1,125.2	346.1	82.6	150.0	198.0	348.5
2027	Forecast	3.0%	1,159.0	357.5	82.6	150.0	198.0	370.9
2028	Forecast	3.0%	1,193.7	369.2	82.6	150.0	198.0	393.9
2029	Forecast	3.0%	1,229.5	381.3	82.6	150.0	198.0	417.7
2030	Forecast	3.0%	1,266.4	393.7	82.6	150.0	198.0	442.1
2031	Forecast	3.0%	1,304.4	406.5	82.6	150.0	198.0	467.3

It is important to note that station capacity limits for Bramalea TS is 82.6MW, 150MW for Jim Yarrow TS, 198MW for the existing Pleasant TS.

Taking into account that the CCRA periods coincide with the in-service anniversary date for Pleasant TS, a conversion of the annual peak demands was completed. For greater clarity, since the in-service date for Pleasant TS was initially set for May 1st 2008, the CCRA forecast adjusted the annual peak demand forecast considering four months of the previous year and eight months of the current year as well as incorporating the peak load index factor. Table 3 below provides the conversion of annual peak demand forecast to CCRA annual period ending peak demand forecast for Pleasant TS.

Table 3 - Conversion of Annual Peak Demand Forecasts to CCRA Annual Period Ending Peak Demands for Pleasant TS

Year	Status	Load Growth	Total 27.6kV System Peak (MW)	Existing Pleasant TS 27.6kV DESN Peak (MW)	New Pleasant TS 27.6 DESN Peak (MW)	CCRA Annual Period Ending on	Peak Load Index Factor	Adjusted Forecast for New Pleasant TS DESN (MW)
2005	Actual	14.1%	541.8	210.6				
2006	Actual	12.1%	607.6	205.2				
2007	Forecast	2.6%	623.3	198.0				
2008	Forecast	3.5%	645.2	198.0	25.2			
2009	Forecast	4.0%	671.0	198.0	47.3	1st Anniversary of In-Service	80.0%	26.0
2010	Forecast	4.0%	697.8	198.0	65.1	2nd Anniversary of In-Service	80.0%	42.6
2011	Forecast	3.5%	722.2	198.0	81.3	3rd Anniversary of In-Service	80.0%	56.4
2012	Forecast	3.0%	743.9	198.0	95.7	4th Anniversary of In-Service	80.0%	68.9
2013	Forecast	3.0%	766.2	198.0	110.5	5th Anniversary of In-Service	80.0%	80.5
2014	Forecast	3.0%	789.2	198.0	125.7	6th Anniversary of In-Service	80.0%	92.4
2015	Forecast	3.0%	812.9	198.0	141.4	7th Anniversary of In-Service	80.0%	104.7
2016	Forecast	3.0%	837.3	198.0	157.6	8th Anniversary of In-Service	80.0%	116.2
2017	Forecast	3.0%	862.4	198.0	174.2	9th Anniversary of In-Service	80.0%	122.4
2018	Forecast	3.0%	888.2	198.0	191.4	10th Anniversary of In-Service	80.0%	122.4
2019	Forecast	3.0%	914.9	198.0	209.0	11th Anniversary of In-Service	80.0%	122.4
2020	Forecast	3.0%	942.3	198.0	227.2	12th Anniversary of In-Service	80.0%	122.4
2021	Forecast	3.0%	970.6	198.0	246.0	13th Anniversary of In-Service	80.0%	122.4
2022	Forecast	3.0%	999.7	198.0	265.3	14th Anniversary of In-Service	80.0%	122.4
2023	Forecast	3.0%	1,029.7	198.0	285.2	15th Anniversary of In-Service	80.0%	122.4
2024	Forecast	3.0%	1,060.6	198.0	305.7	16th Anniversary of In-Service	80.0%	122.4
2025	Forecast	3.0%	1,092.4	198.0	326.7	17th Anniversary of In-Service	80.0%	122.4
2026	Forecast	3.0%	1,125.2	198.0	348.5	18th Anniversary of In-Service	80.0%	122.4
2027	Forecast	3.0%	1,159.0	198.0	370.9	19th Anniversary of In-Service	80.0%	122.4
2028	Forecast	3.0%	1,193.7	198.0	393.9	20th Anniversary of In-Service	80.0%	122.4
2029	Forecast	3.0%	1,229.5	198.0	417.7	21st Anniversary of In-Service	80.0%	122.4
2030	Forecast	3.0%	1,266.4	198.0	442.1	22nd Anniversary of In-Service	80.0%	122.4
2031	Forecast	3.0%	1,304.4	198.0	467.3	23rd Anniversary of In-Service	80.0%	122.4

As illustrated in Figure 1 and explained in further detail in the Business Case (Attachment 21), the previously projected growth was significantly impacted by the economic downturn which

resulted in a general slowing of the economy, reducing not only the peak demand for electricity but customer additions as well. For example, in 2004, Hydro One Brampton added 7,233 new customers compared to 1,438 customers added in 2009, which represents a 80% reduction. Although the economy and peak demand growth showed signs of recovery in 2012, peak demand at Pleasant TS decreased again in 2013 to 2016. Tables 4 and 5 provide a comparison between Hydro One Brampton's 2006 Forecast and experienced actual demand for both summer system peak and monthly system peaks, along with corresponding annual growth rates.

Table 4 – Comparison of Forecasted Summer Peak Demands to Actual Summer Peak Demands (2007-2016)

Year	Forecast Summer Peak (MW)	Forecasted Summer Peak Growth (%)		Actual Summer Peak (MW)	Actual Summer Peak Growth (%)
2007	810	2.6%		772	-1.6%
2008	838	3.5%		729	-5.6%
2009	872	4.0%		737	1.1%
2010	907	4.0%		799	8.4%
2011	939	3.5%		815	2.0%
2012	967	3.0%		817	0.3%
2013	996	3.0%		832	1.8%
2014	1026	3.0%		749	-9.9%
2015	1056	3.0%		797	6.4%
2016	1088	3.0%		836	4.9%

Table 5 – Comparison of Forecasted Monthly Ave Peak Demands to Actual Monthly Ave Peak Demands (2007-2016)

Year	Forecast Average Monthly Peak (MW)	Forecasted Average Peak Growth (%)		Actual Average Monthly Peak (MW)	Actual Average Peak Growth (%)
2007	649	2.6%		638	4.3%
2008	672	3.5%		610	-4.3%
2009	698	4.0%		586	-4.1%
2010	726	4.0%		631	7.8%
2011	752	3.5%		626	-0.8%
2012	774	3.0%		642	2.5%
2013	798	3.0%		655	2.1%
2014	821	3.0%		635	-3.1%
2015	846	3.0%		641	1.0%
2016	871	3.0%		664	3.7%

JT.1.6

a) To advise if anyone has approached the City and the County to ask them to pay their normal portion under the relevant statute.

Response:

a) The Downtown Revitalization project is a growth-related capital expenditure, which is being performed in a co-ordinated manner between the road authorities and utilities. Alectra Utilities does not own or operate any existing infrastructure within the road allowance in the 2018 revitalization project limits. Since this is an expansion project and does not involve relocating existing assets, the *Public Service Works on Highways Act* does not apply; no formal cost sharing is applicable. Therefore, Alectra Utilities has not approached the City of Brampton or the Region of Peel to request a capital contribution for cost sharing.

JT.1.7

a) To provide any report prepared in rescoping the project, if available.

Response:

a) The 4.16kV to 27.6kV Voltage Conversion Review report is provided as JT1.7_Attach 1_4.16kV Conversion Report 2016.

4.16kV to 27.6kV

Voltage Conversion

Review

Asset Management and Engineering

September 27, 2016

Table of Contents

1. Introduction

In 2010, Hydro One Brampton commenced work on a large scale rebuild designed to convert an aging overhead 4.16 kV distribution system in the central area of its service territory. This rebuild represents one of the company's larger undertakings and was planned to be completed in stages over a period of eight years pacing the rate of expenditures involved.

This report has been prepared to review the progress of the stages of work completed on this rebuild to the end of 2015. The report also presents observations and lessons learned from examination of the progress and challenges encountered, and presents recommendations based on these learnings.

HOBNI's 4.16 kV distribution system has been in service since the 1950s and it is the oldest electrical infrastructure in the City of Brampton. It consists of seven (7) Municipal Stations (MS) that have a primary voltage level of 27.6kV. The overhead distribution network in this area, which is presently over 60 years of age, was not designed to accommodate future load growth through electric vehicles, nor to facilitate the connection of renewable energy generation and has served its useful life. In addition, this distribution system was constructed based on standards of the day, and did not respond well to the heavy wind and ice loading events recently experienced.

In 2013, an ice storm event significantly impacted customer service in the 4.16 service area. Many customers in this area lost supply over an extended period of time as this configuration type of distribution system utilized a vintage open wire secondary distribution network, which is susceptible to ice and wind events.

2. Review of 2010-2015, Rebuild Observations

The 2010, 2011 and 2013 phases of this rebuild were smaller in scale when compared to subsequent phases and involved conversion of existing overhead distribution systems for approximately 400 customers, typically utilizing Hydro One Brampton resources in the rebuild execution. The 2013 phase of the rebuild included extending short segments of overhead and underground 27.6 kV distribution facilities to specific locations in preparation for the larger scale conversion planned for 2014 and 2015, which involved the conversion of approximately 900 customers. This approach facilitated a gradual implementation and provided opportunities for learning and identification of challenges in preparation for the larger scale implementation in 2014 and 2015.

The resource procurement structure for the 2014 and 2015 period was initially set to obtain services for civil and electrical services as separate contracts. No bids were received for the civil contract after release of the initial request for proposal. It was identified that this was as a result of heavy demand for civil contract services due to the PAN AM games in Toronto. The company reorganized the procurement structure into as single contract for civil and electrical services to attract bidders for this work, and re-issued an RFP. Bids were subsequently received; however, prices submitted were much higher than historical rates used in the rebuild estimate. Because of the need to proceed with this rebuild, the company opted to award the contract with revised terms and scope, allowing for internal resources to complete a portion of the scope in an effort to reduce costs.

The original rebuild schedule was set to complete the voltage conversion during the period 2010 to 2017. The total estimated cost to complete this work was estimated at $9.6 Million and involved converting a total of approximately 3,000 services.

Following Hydro One Brampton's practices, a variance and scope analysis was performed at the conclusion of the 2015 construction period. Hydro One Brampton identified that the life to date 2015 rebuild costs exceeded the original estimate after converting only 1,275 of 3,000 services.

Examination of scope change confirmed that the following items experienced a change in scope and cost from baseline:

i. Replacement of a larger quantity of wood poles when compared to the original plan. More poles were identified as needing replacement when compared to the original plan of replacing heavy corner poles, dead-end poles and poles supporting transformers. Initially, when this rebuild was designed in 2009, the design utilized standards in effect at the time. The rebuild plan identified that the majority of existing poles would remain and only the dead-end poles, poles with heavy angles and poles supporting transformers would be replaced. However, in 2015 the Canadian Standards Association standard for overhead distribution systems, changed the requirements for the loading analysis for wood poles from linear analysis to non-linear analysis. This increased the strength/grade requirement for distribution poles. The impact of this change in standards resulted in the requirement to replace more poles than was originally scoped. However, it also resulted in a more robust overhead distribution system better able to withstand weather events. The impact of this increase in scope was approximately $500,000 out of the rebuild costs incurred to date.

ii. Inclusion of on-grade vault upgrades not originally scoped in this rebuild. The distribution system in this area included a number of vintage on grade indoor transformer vault rooms located within customer premises. Through the work of Hydro One Brampton's Reliability Committee and out of concerns for ensuring the safety and reliability of the electrical supply for Hydro One Brampton's customers, a decision was made to use an accelerated approach to converting the existing vaults from 4.16kV to 27.6kV. As documented in the 2009 Asset Condition Assessment, 16 building vault transformers were identified to be replaced with three phase pad mounted transformers installed outside of the building. In order to address these concerns and to maintain the continuity of the conversion schedule, the company proceeded the additional work. The impact of this increase in scope was approximately $1.8 Million out of the rebuild costs incurred to date.

iii. An increase in costs was experienced in 2015, due to higher than expected contracted resource service costs, increased material costs for new overhead service conductors to individual homes, new overhead mainline secondary conductors and increased labour and trucking cost to complete the additional work identified. The existing overhead secondary wire in the area consisted of an open wire arrangement of bare #4 and #6 copper conductor located along the street. The existing overhead service conductors to each home in the area

typically consisted of #4 triplex wire. With the replacement of additional wood poles noted in clause (i), the company rebuilt the overhead distribution system to present day standards utilizing 3/0 insulated aluminum wire for the mainline overhead secondary conductor along the street field lashed to a steel messenger support cable. This method of construction provided a substantial improvement in the pole line's capability to withstand heavy wind and ice events.

The impact of this change in scope was approximately $1.3 Million out of the rebuild costs incurred to date.

3. Lessons Learned

A lessons learned exercise was performed resulting in the following recommendations:

1. Improved co-ordination is recommended with Asset Management in defining the actual scope for the rebuild in order to assist with budgeting process. For the period 2017-2021, this recommendation has been incorporated as the estimates prepared have taken into consideration all assets that serve the 4.16kV system inclusive of transformer vaults, poles, the secondary overhead conductor and the service laterals.
2. Evaluate the scale of the individual phases of the remaining rebuild scope in order to identify and optimize the resourcing required to complete the rebuild. The scale identified for completion in each year should be in alignment with resource capabilities of the organization while recognizing the balance of work in the capital project portfolio.
3. A defined approach is required to direct the procurement strategy on these types of rebuilds. A detailed scope of work must be established for contract work for civil and electrical resourcing to establish a defined cost for tendered quotations. Budget estimates should not use annual contract rates; rather, they should use industry recognize rates for comparable work. In addition, a review of the actual labour and truck time for a particular standard is needed. Sufficient contingencies should be included to facilitate mitigation of unforeseen events.
4. Asset Condition Assessment (ACA) – Improved leveraging of data acquired from the ACA into the GIS is recommended to support identification of current asset health for the overhead infrastructure inclusive of poles. An asset health map that details the network with a colour

scheme for identifying health indices, is recommended. This would facilitate optimizing the scope for system renewal projects.

5. Increased involvement of the Operations group at the budgeting phase is recommended to provide input and garner a service level agreement, acknowledging that the costs and resource hours scoped have been reviewed and agreed to by the Operations group.

4. Implementation Strategy:

Arising from the lessons learned, the following implementation strategy was recommended:

1. Utilize internal resources, leverage existing contracts and workforce to optimize rebuild costing. Minimize the number of parties engaged in construction of the works, thereby improving efficiencies and logistics. Additional benefits would be realized by finalizing designs earlier and starting capital work earlier in the year to ensure a levelized work schedule.
2. Re-schedule the remaining rebuild work to be completed over an additional 4 year period, extending the rebuild completion to 2021. This is intended to pace execution of the rebuild, optimize resource utilization, and to levelize rebuild expenditures over the four year period.
3. Re-scope the 2018 rebuild phase to include additional customers in the voltage conversion due to the failure at MS1 in 2015 and to facilitate complete offloading of MS8.

5. Conclusion

Hydro One Brampton has examined the progress of work on this rebuild compared the original scope, schedule and budget. Based on observations collected the 2016 implementation strategy has provided an informed path forward to bring this work to a successful conclusion.

The company will revisit the 2017 and subsequent actual results, and based on recommendations made herein will continue to monitor and verify that the implementation strategy remains valid.

JT.1.8

a) To provide an updated version of Attachment 33, Page 10, Table 3.

Response:

a) In response to G-Staff-3, Alectra Utilities provided a table at page 3 of the response, that identified the customer contribution for the Road Authority YRRT Yonge St. ICM project. The customer contribution for the YRRT project was identified as $14,170,536 on Line 1 of the table and $12,095,085 in the 'Total' row of the table. Alectra Utilities confirms that the customer contribution for the YRRT project is $14,170,536. An updated table is providedbelow. The capital contribution amount of $14,170,536 is also referenced on Page 10, Table 3 of the YRRT Business Case at Exhibit 3, Tab 1, Schedule 1, Attachment 33 – ICM Business Cases PowerStream RZ.

Table 1 – ICM Projects Customer Contributions

Project Description	Gross Capex	Customer Contribution	Net Capex
Road Authority YRRT Yonge St	25,414,066	(14,170,536)	$11,243,530
System Access	**$25,414,066**	**(14,170,536)**	**$11,243,530**
Station Switchgear Replacement (ACA) 8th Line MS323	$1,394,991	$0	$1,394,991
Rear Lot Supply Remediation - Royal Orchard - North	$1,681,034	$0	$1,681,034
Cable Replacement – (M49) - Steeles and Fairway Heights	$1,842,953	$0	$1,842,953
Cable Replacement – (V08) - Steeles Ave and New Westminster	$2,637,046	$0	$2,637,046
Planned Circuit Breaker Replacement - Richmond Hill TS#1	$1,186,729	$0	$1,186,729
System Renewal	**$8,742,753**	**$0**	**$8,742,753**
Rebuild 27.6 kV pole line on Warden Ave into 4 ccts from 16th Ave to Major Mack	$1,372,976	$0	$1,372,976
Mill Street MS835 TX Upgrade - Tottenham	$1,298,572	$0	$1,298,572
Build double ccts 27.6kV pole line on 19th Ave between Leslie St and Bayview Ave	$1,202,306	$0	$1,202,306
Double Circuit existing 23M21 Circuit from Bayfield & Livingstone to Little Lake MS.	$1,276,180	$0	$1,276,180
System Service	**$5,150,033**	**$0**	**$5,150,033**
Total PowerStream Rate Zone Incremental Capital Funding	**$39,306,852**	**(14,170,536)**	**$25,136,316**

JT.1.9

a) To file the quantitative analysis; To confirm that there was no memo of any discussion with management.

Response:

a) The quantitative assessment of the reliability impact for the scenarios presented in the Customer Engagement for the PowerStream Rate Zone ("PRZ") is provided as JT1.9_Attach 1_PRZ Reliability Impact Assessment for ICM Project Funding.

The reliability impact assessment for the PRZ was based on outage projections from project business cases which were developed in April 2016.

Alectra Utilities confirms that there was no report or memo to Management. The outcome of the analysis was discussed at meetings when considering the customer engagement survey.

PRZ - Estimated Customer Minutes Interrupted and SAIDI

Scenario: Eventually Declines

Assume Failure Rates are Constant

Project		2018	2019	2020	2021	2022
Rear Lot Supply Remediation – Royal Orchard – North (Markham)	Failure Rate (per year)	2	2	2	2	2
	CMI	110,880	110,880	110,880	110,880	110,880
Automated Switch Replacement	Failure Rate (per year)	1	1	1	1	1
	CMI	156,000	156,000	156,000	156,000	156,000
Mini-Rupter Replacement	Failure Rate (per year)	1	1	1	1	1
	CMI	2,400	2,400	2,400	2,400	2,400
Cable Replacement - (M49) – Steeles and Fairway Heights	Failure Rate (per year)	2	2	2	2	2
	CMI	81,480	81,480	81,480	81,480	81,480
Cable Replacement - (V08) – Steeles Ave and New Westminster	Failure Rate (per year)	2.7	2.7	2.7	2.7	2.7
	CMI	109,998	109,998	109,998	109,998	109,998
Cable Replacement - (Barrie) – Cook St and Simcoe Terrance	Failure Rate (per year)	1.2	1.2	1.2	1.2	1.2
	CMI	53,421	53,421	53,421	53,421	53,421
Cable Replacement - (Barrie) – Donald St and Simcoe Terrace	Failure Rate	1	1	1	1	1
	CMI	44,518	44,518	44,518	44,518	44,518
Cable Replacement - (V22) – Doney Cres	Failure Rate (per year)	1	1	1	1	1
	CMI	44,518	44,518	44,518	44,518	44,518
Cable Replacement - Left behind Cable	Failure Rate (per year)	2	2	2	2	2
	CMI	89,036	89,036	89,036	89,036	89,036
Planned Circuit Breaker Replacement Richmond Hill TS#1	Failure Rate (per year)	0.1	0.1	0.1	0.1	0.1
	CMI	356,400	356,400	356,400	356,400	356,400
MS323 8TH Line Switchgear Replacement	Failure Rate (per year)	0.1	0.1	0.1	0.1	0.1
	CMI	10,800	10,800	10,800	10,800	64,800
Total Annual CMI		1,059,451	1,059,451	1,059,451	1,059,451	1,113,451
Total Cumulative CMI		1,059,451	2,118,902	3,178,353	4,237,804	5,351,255
Total SAIDI (Minutes per year)		2.8687	2.8687	2.8687	2.8687	3.0149

Total Number of Customers	369,317

Estimated Customer Minutes Interrupted and SAIDI

Assume Failure Rates increase 5% Each Year

Project		2018	2019	2020	2021	2022
Rear Lot Supply Remediation – Royal Orchard – North (Markham)	Failure Rate (per year)	2.1	2.21	2.32	2.43	2.55
	CMI	116,424	122,245	128,357	134,775	141,514

Automated Switch Replacement	Failure Rate (per year)	1.05	1.10	1.16	1.22	1.28
	CMI	163,800	171,990	180,590	189,619	199,100
Mini-Rupter Replacement	Failure Rate (per year)	1.05	1.10	1.16	1.22	1.28
	CMI	2,520	2,646	2,778	2,917	3,063
Cable Replacement - (M49) – Steeles and Fairway Heights	Failure Rate (per year)	2.1	2.21	2.32	2.43	2.55
	CMI	85,554	89,832	94,323	99,039	103,991
Cable Replacement - (V08) – Steeles Ave and New Westminster	Failure Rate (per year)	2.84	2.98	3.13	3.29	3.45
	CMI	115,498	121,273	127,337	133,703	140,389
Cable Replacement - (Barrie) – Cook St and Simcoe Terrance	Failure Rate (per year)	1.26	1.32	1.39	1.46	1.53
	CMI	56,092	58,897	61,841	64,934	68,180
Cable Replacement - (Barrie) – Donald St and Simcoe Terrace	Failure Rate	1.05	1.10	1.16	1.22	1.28
	CMI	46,744	49,081	51,535	54,112	56,818
Cable Replacement - (V22) – Doney Cres	Failure Rate (per year)	1.05	1.10	1.16	1.22	1.28
	CMI	46,744	49,081	51,535	54,112	56,818
Cable Replacement - Left behind Cable	Failure Rate (per year)	2.1	2.21	2.32	2.43	2.55
	CMI	93,488	98,162	103,071	108,224	113,635
Planned Circuit Breaker Replacement Richmond Hill TS#1	Failure Rate (per year)	0.11	0.12	0.12	0.13	0.13
	CMI	374,220	392,931	412,578	433,206	454,867
MS323 8TH Line Switchgear Replacement	Failure Rate (per year)	0.11	0.12	0.12	0.13	0.13
	CMI	11,340	11,907	12,502	13,127	68,040
Total Annual CMI		1,112,424	1,168,045	1,226,447	1,287,770	1,406,414
Total Cumulative CMI		1,112,424	1,168,045	1,226,447	1,287,770	1,406,414
Total SAIDI (Minutes per year)		3.0121	3.1627	3.3209	3.4869	3.8081

Percent Annual Rate Increase 5

PRZ - Estimated Customer Minutes Interrupted and SAIDI

Scenario: Could Significantly Decline

Assume Failure Rates are Constant

Project		2018	2019	2020	2021	2022
Rear Lot Supply Remediation – Royal Orchard – North (Markham)	Failure Rate (per year)	2	2	2	2	2
	CMI	110,880	110,880	110,880	110,880	110,880
Automated Switch Replacement	Failure Rate (per year)	1	1	1	1	1
	CMI	156,000	156,000	156,000	156,000	156,000
Switchgear Replacement	Failure Rate (per year)	7	7	7	7	7
	CMI	341,453	341,453	341,453	341,453	341,453
Mini-Rupter Replacement	Failure Rate (per year)	1	1	1	1	1
	CMI	2,400	2,400	2,400	2,400	2,400
Cable Replacement - (M49) – Steeles and Fairway Heights	Failure Rate (per year)	2	2	2	2	2
	CMI	81,480	81,480	81,480	81,480	81,480
Cable Replacement - (V08) – Steeles Ave and New Westminster	Failure Rate (per year)	2.7	2.7	2.7	2.7	2.7
	CMI	109,998	109,998	109,998	109,998	109,998
Cable Replacement - (Barrie) – Cook St and Simcoe Terrance	Failure Rate (per year)	1.2	1.2	1.2	1.2	1.2
	CMI	53,421	53,421	53,421	53,421	53,421
Cable Replacement - (Barrie) – Donald St and Simcoe Terrace	Failure Rate	1	1	1	1	1
	CMI	44,518	44,518	44,518	44,518	44,518
Cable Replacement - (V22) – Doney Cres	Failure Rate (per year)	1	1	1	1	1
	CMI	44,518	44,518	44,518	44,518	44,518
Cable Replacement - Left behind Cable	Failure Rate (per year)	2	2	2	2	2
	CMI	89,036	89,036	89,036	89,036	89,036
Cable Injection - (M27) – Kennedy – 16th – McCowan-Hwy7 (50%)	Failure Rate	6.25	6.25	6.25	6.25	6.25
	CMI	278,238	278,238	278,238	278,238	278,238
Cable Injection - (M37) – Woodbine and 14th (50%)	Failure Rate (per year)	3	3	3	3	3
	CMI	122,220	122,220	122,220	122,220	122,220
Cable Injection - (M44) – Konrad Cres Woodbine and 14th (50%)	Failure Rate (per year)	5.5	5.5	5.5	5.5	5.5
	CMI	13,860	13,860	13,860	13,860	13,860
Cable Injection - (V01) – Young – Steeles – Bathurst – Centre (50%)	Failure Rate (per year)	3	3	3	3	3
	CMI	122,220	122,220	122,220	122,220	122,220
Cable Injection - (V36) – Steeles and Pine Valley (50%)	Failure Rate	2.5	2.5	2.5	2.5	2.5
	CMI	101,885	101,885	101,885	101,885	101,885
Cable Injection - (V37) – Langstaff and Weston (50%)	Failure Rate	2.5	2.5	2.5	2.5	2.5
	CMI	101,885	101,885	101,885	101,885	101,885

Planned Circuit Breaker Replacement Richmond Hill TS#1	Failure Rate (per year)	0.1	0.1	0.1	0.1	0.1
	CMI	356,400	356,400	356,400	356,400	356,400
MS323 8TH Line Switchgear Replacement	Failure Rate (per year)	0.1	0.1	0.1	0.1	0.1
	CMI	10,800	10,800	10,800	10,800	64,800
Total Annual CMI		2,141,212	2,141,212	2,141,212	2,141,212	2,195,212
Total Cumulative CMI		2,141,212	4,282,423	6,423,635	8,564,846	10,760,058
Total SAIDI (Minutes per year)		5.7978	5.7978	5.7978	5.7978	5.9440
		0.096629	0.976629	1.07809	1.179551	1.281011765

Total Number of Customers	369,317

Estimated Customer Minutes Interrupted and SAIDI

Assume Failure Rates increase 5% Each Year

Project		2018	2019	2020	2021	2022
Rear Lot Supply Remediation – Royal Orchard – North (Markham)	Failure Rate (per year)	2.1	2.21	2.32	2.43	2.55
	CMI	116,424	122,245	128,357	134,775	141,514
Automated Switch Replacement	Failure Rate (per year)	1.05	1.10	1.16	1.22	1.28
	CMI	163,800	171,990	180,590	189,619	199,100
Switchgear Replacement	Failure Rate (per year)	7.35	7.72	8.10	8.51	8.93
	CMI	358,526	376,452	395,275	415,039	435,791
Mini-Rupter Replacement	Failure Rate (per year)	1.05	1.10	1.16	1.22	1.28
	CMI	2,520	2,646	2,778	2,917	3,063
Cable Replacement - (M49) – Steeles and Fairway Heights	Failure Rate (per year)	2.1	2.21	2.32	2.43	2.55
	CMI	85,554	89,832	94,323	99,039	103,991
Cable Replacement - (V08) – Steeles Ave and New Westminster	Failure Rate (per year)	2.84	2.98	3.13	3.29	3.45
	CMI	115,498	121,273	127,337	133,703	140,389
Cable Replacement - (Barrie) – Cook St and Simcoe Terrance	Failure Rate (per year)	1.26	1.32	1.39	1.46	1.53
	CMI	56,092	58,897	61,841	64,934	68,180
Cable Replacement - (Barrie) – Donald St and Simcoe Terrace	Failure Rate	1.05	1.10	1.16	1.22	1.28
	CMI	46,744	49,081	51,535	54,112	56,818
Cable Replacement - (V22) – Doney Cres	Failure Rate (per year)	1.05	1.10	1.16	1.22	1.28
	CMI	46,744	49,081	51,535	54,112	56,818
Cable Replacement - Left behind Cable	Failure Rate (per year)	2.1	2.21	2.32	2.43	2.55
	CMI	93,488	98,162	103,071	108,224	113,635
Cable Injection - (M27) – Kennedy – 16th – McCowan-Hwy7 (50%)	Failure Rate	6.56	6.89	7.23	7.59	7.97
	CMI	292,149	306,756	322,094	338,199	355,109
Cable Injection - (M37) – Woodbine and 14th (50%)	Failure Rate (per year)	3.15	3.31	3.47	3.65	3.83
	CMI	128,331	134,748	141,485	148,559	155,987

Cable Injection - (M44) – Konrad Cres Woodbine and 14th (50%)	Failure Rate (per year)	5.78	6.07	6.37	6.69	7.03
	CMI	14,553	15,281	16,045	16,847	17,689
Cable Injection - (V01) – Young – Steeles – Bathurst – Centre (50%)	Failure Rate (per year)	3.15	3.31	3.47	3.65	3.83
	CMI	128,331	134,748	141,485	148,559	155,987
Cable Injection - (V36) – Steeles and Pine Valley (50%)	Failure Rate	2.63	2.76	2.90	3.04	3.20
	CMI	106,979	112,328	117,944	123,842	130,034
Cable Injection - (V37) – Langstaff and Weston (50%)	Failure Rate	2.63	2.76	2.90	3.04	3.20
	CMI	106,979	112,328	117,944	123,842	130,034
Planned Circuit Breaker Replacement Richmond Hill TS#1	Failure Rate (per year)	0.11	0.12	0.12	0.13	0.13
	CMI	374,220	392,931	412,578	433,206	454,867
MS323 8TH Line Switchgear Replacement	Failure Rate (per year)	0.11	0.12	0.12	0.13	0.13
	CMI	11,340	11,907	12,502	13,127	68,040
Total Annual CMI		2,248,272	2,360,686	2,478,720	2,602,656	2,787,045
Total Cumulative CMI		2,248,272	2,360,686	2,478,720	2,602,656	2,787,045
Total SAIDI (Minutes per year)		6.0876	6.3920	6.7116	7.0472	7.5465

Percent Annual Rate Increase 5

Year	Reliability Eventually Declines SAIDI (min)	Reliability Declines Significantly SAIDI (min)
2018	2.86-3.01	5.79-6.08
2019	3.01-3.16	6.08-6.39
2020	3.16-3.32	6.39-6.71
2021	3.32-3.48	6.71-7.04
2022	3.48-3.80	7.04-7.54

Year	Reliability Eventually Declines (SAIDI)	Reliability Declines Significantly (SAIDI)
2018	5.43%-5.70%	10.98%-11.53%
2019	5.70%-5.99%	11.53%-12.11%
2020	5.99%-6.29%	12.11%-12.71%
2021	6.29%-6.60%	12.71%-13.35%
2022	6.60%-7.21%	13.35%-14.29%

JT.1.10

a) To go through the March list for both Enersource and PowerStream and do a side-by-side comparison of the two lists and explain why things were dropped and new things added and why there were substantial changes in dollar figures.

Response:

a) Alectra Utilities has provided a comparison of the ICM projects from the March list presented in CCC-1, to the final proposed ICM project list for the Enersource rate zone, in Table 1.

Table 1 – Comparison of Final Proposed ICM Projects to Preliminary ICM Project List - Enersource Rate Zone

Project	Capital Expenditure ($) Table 103 (E2/T3/S10/Pg19)	Capital Expenditure ($) CCC-1	Comment
Road Widening Project - QEW (Evans to Cawthra)	1,294,220	1,617,775	Reduced to remove capital contribution of $323,555.
Overhead Rebuild - Lake/John	927,370	927,370	No change.
Overhead Rebuild - Church	1,020,107	1,020,107	No change.
Leaking Transformer Replacement Project	8,447,243	8,447,243	No change.
Subdivision Rebuild - Credit Woodlands Crt/Wiltshire	1,548,270	1,961,142	Expenditure in preliminary list incorrectly reflected the budget for the Glen Erin & Montenvideo project. Please see below.
Subdivision Rebuild - Glen Erin & Montevideo	1,961,142	1,548,270	Expenditure in preliminary list incorrectly reflected the budget for the Credit Woodlands Crt/Wiltshire project. Please see above.
Subdivision Rebuild - Tenth Line Main Feeder	1,135,398	1,135,398	No change.
Subdivision Rebuild - Folkway & Erin Mills Main Feeder	1,032,180	1,032,180	No change.
Subdivision Rebuild - Glen Erin & Battleford	2,064,360	1,548,270	Expenditure in preliminary list did not reflect the correct budget for project.
Subdivision Rebuild - Walmart Cables	1,548,270	1,548,270	No change.
Substation Upgrade - York MS	3,232,029	3,232,029	No change.
Substation Upgrade - Webb MS		4,432,750	Removed as station deferred to 2020 based on customer engagement feedback.

b) Alectra Utilities has provided a comparison of the ICM projects from the March list presented in CCC-1, to the final proposed ICM project list for the PowerStream rate zone, in Table 2.

Table 2 – Comparison of Final Proposed ICM Projects to Preliminary ICM Project List - PowerStream Rate Zone

Project	Capital Expenditure ($) Table 103 (E2/T3/S10/Pg19)	Capital Expenditure ($) CCC-1	Comment
Road Authority YRRT Yonge St	11,243,530	14,283,443	Reduced expenditure to reflect projected in-service additions for 2018.
Station Switchgear Replacement (ACA) 8th Line MS323	1,394,991	1,394,991	No change.
Rear Lot Supply Remediation - Royal Orchard - North	1,681,034		Project added to ICM proposed list as required for implementation in 2018.
Cable Replacement - (M49) - Steeles and Fairway Heights	1,842,953		Project added to ICM proposed list as required for implementation in 2018.
Cable Replacement - (MV08) - Steeles Ave and New Westminster	2,637,046		Project added to ICM proposed list as required for implementation in 2018.
Planned Circuit Breaker Replacement - Richmond Hill TS #1	1,186,729	2,341,642	Reduced expenditure to reflect projected in-service additions for 2018.
Rebuild 27.6kV pole line on Warden Ave into 4 ccts from 16th Ave to Major Mack	1,372,976	1,372,976	No change.
Mill Street MS835 TX Upgrade - Tottenham	1,298,572		Project added to the proposed ICM list as required for implementation in 2018.
Build double ccts 27.6kV pole line on 19th Ave between Leslie St and Bayview Ave	1,202,306	1,202,306	No change.
Double Circuit existing 23M21 Circuit from Bayfield & Livingstone to Little Lake MS	1,276,180	2,148,044	Reduced expenditure to reflect projected in-service additions for 2018.
Radial Supply Remediation/Conversion - 13.8 to 27.6kV on Miller Ave		1,628,533	Removed as project was deferred beyond 2018 based on the City of Markham's revised schedule for work on Miller Ave.
Install Two 27.6kV ccts on 16th Ave from Hwy 404 to Woodbine Ave		1,187,653	Removed as project was deferred beyond 2018 based on delays relating to the closing of the Buttonville Airport which is now expected to stay in service in 2018.

			Construction of an overhead line on 16th Ave is not permitted while the airport remains operational.
Vaughan TS#4 Feeder Integration - Part 2		4,302,513	Removed as project was deferred to 2020 based on pacing of development and load growth in the area.

1

JT.1.11

a) To provide the original estimate for those projects and then the final number it came in as when you finished it.

Response:

a) A comparison of the estimated and actual expenditures in 2015 and 2016 for the Rear Lot Remediation Projects is provided in Table 1, below.

Table 1 – Estimates and Actual Expenditures for 2015 and 2016 Rear Lot Remediation

Project	Estimate ($000s)	Actual Expenditure ($000s)
2015 Rear Lot Remediation Project	3,595	3,566
2016 Rear Lot Remediation Project	3,030	2,601

JT.2.1

a) To confirm the ICM calculation removes the transition costs

Response:

a) Alectra Utilities confirms that the 2018 capital forecasts presented at Exhibit 2, Tab 2, Schedule 10, Table 66, p.8 for the Brampton rate zone; Exhibit 2, Tab 3, Schedule 10, Table 102, p. 18 for the PowerStream rate zone; and Exhibit 2, Tab 4, Schedule 11, Table 83, p.30 for the Enersource rate zone, do not include transition costs. Transitions costs were excluded from the capital forecast to determine the maximum eligible incremental capital.

JT.2.2

a) To confirm that the 7.498-million that's shown in Table 95 relates to the PowerStream Rate Zone;

b) To file the contract, or to advise whether there are confidentiality constraints to filing.

Response:

a) Alectra Utilities confirms that the $7.498MM included in Table 95 at Exhibit 2, Tab 3, Schedule 10, relates to the PowerStream RZ. As provided in Alectra Utilities' response to PRZ-AMPCO-4, the advancement of the Customer Information System ("CIS") upgrade to 2017 was necessary due to product support on the current version of Oracle Utilities Customer Care and Billing ("CC&B") ending June 2018.

b) Alectra Utilities confirms that there are confidentiality constraints and will not be filing the contract.

JT.2.3

a) To provide a prioritized list for the PowerStream Rate Zone.

Response:

a) Alectra Utilities has provided a ranked list of proposed ICM projects for the PowerStream rate zone in Table 1.

Table 1 – Ranked ICM Project Lists for the PowerStream Rate Zone

Project Name	Rank
Road Authority YRRT Yonge St	7
Build double ccts 27.6kV pole line on 19th Ave between Leslie St and Bayview Ave	11
Rebuild 27.6 kV pole line on Warden Ave into 4 ccts from 16th Ave to Major Mack	17
Cable Replacement – (V08) - Steeles Ave and New Westminster	18
Double Circuit existing 23M21 Circuit from Bayfield & Livingstone to Little Lake MS.	19
Planned Circuit Breaker Replacement - Richmond Hill TS#1	22
Rear Lot Supply Remediation - Royal Orchard - North	23
Station Capacity Projects- (MS835 Tx Upgrade – Tottenham)	24
Cable Replacement – (M49) - Steeles and Fairway Heights	29
Station Switchgear Replacement (ACA) 8th Line MS323	30

JT.2.4

a) To clarify the priority of the regular pole replacement program.

Response:

a) Capital investments in the PowerStream rate zone are ranked based on the Value Function framework configured in the CopperLeaf C55 application. The Value Function is a weighting of several value measures which include risk mitigation, financial benefits, impacts on Key Performance Indicators ("KPIs") and investment cost. Risk is based on the consequence of an event, as well as the probability of the event. The pole replacement capital investment was determined to be a higher value compared to the unscheduled replacement of failed equipment due to higher risk consequence rating of pole failure, based on known poor or very poor condition of the assets from inspections and pole testing.

JT.2.5

a) To explain why two projects ended up with the same dollar figures.

Response:

a) Alectra Utilities confirms that the two road widening projects in the Enersource rate zone do not have the same dollar figures. A comparison of the budget estimates for the two 2018 road widening projects in the Enersource rate zone is provided in Table 1. The net total budget for the QEW – Evans to Cawthra of $1.294MM is different than the net total budget of $0.967MM for Creditview – Britannia to Argentia.

Table 1: Road Project Budget Estimate Comparison - Enersource Rate Zone

Expenditure	Project Budget Estimate QEW – Evans to Cawthra ($000)	Creditview – Britannia to Argentia ($000)
Labour	149	369
Material	174	483
Equipment	100	86
Other (Contractor)	1,195	356
Gross Total	**1,618**	**1,294**
Capital Contributions	324	327
Net Total	**1,294**	**967**

JT.2.6

a) To comment on why six subdivision renewal projects are in the ICM list for Enersource and four are not.

Response:

a) During the evaluation of the 2018 investment needs, increases in investment were identified in system renewals driven by incremental subdivision renewal projects.The ten subdivision renewal projects proposed in the Enersource rate zone were determined to reflect prudent investments; found to provide the most effective option for ratepayers; and were identified as necessary for 2018. The six subdivision renewal projects proposed for ICM are not different in nature from the four that are not proposed for ICM. They are not, however, supported by existing rates. As described in response to ERZ-Staff-20, each of the proposed ICM projects meet materiality, need and prudence criteria.

As provided in Section 2.1.2.2 of the Alectra Utilities Distribution System Plan for the Enersource rate zone (Attachment 50, Page 83), the investment portfolio optimization practice includes pacing investments based on resource constrints, size and mix of capital investments with consideration for rate impacts, customer impacts as well as corporate objectives and risks.

JT.2.7

a) To provide the latest date of the asset data in the June 2017 report.

Response:

a) The 2017 Station Sustainability Report for the PowerStream rate zone was developed based on asset data as of April 1, 2017. The PowerStream Distribution System Plan dated February 24, 2015 was based on asset condition assessment data as of September 30, 2014.

JT.2.8

a) To provide a Q3 forecast for the table at PRZ-AMPCO-2; and if possible to update the year-end forecast.

Response:

a) Table 1 below provides the update to Table 92 referenced in PRZ-AMPCO-2 for expenditures year-to-date September 2017. Table 1 also includes the Q3 forecast which was developed based on the August YTD results and represents the best information available at that time. The Road Authority YTD expenditure is higher than the year end forecast due to the delayed timing of capital contributions.

Table 1 – Revised Table 92 for Expenditure to September 2017 and the 2017 Forecast as at Q3

Category	Actual 2013	Actual 2014	Actual 2015	Actual 2016	Actual YTD Sept 2017	COS 2017	Q3 Forecast 2017	DSP 2018	Forecast 2018	Forecast 2019	Forecast 2020
New Connections and Subdivisions	$9,310	$8,759	$14,291	$13,761	$7,093	$15,644	$16,267	$16,521	$16,162	$16,719	$17,274
Other Customer Initiated Work	$264	$1,085	$355	($270)	($1,510)	$404	$365	$1,080	$425	$446	$468
RGEN New Connections	$83	$30	$105	$166	$81	($0)	$86	$0	$0	$0	$0
Road Authority	$2,424	$13,950	$7,422	$7,301	$20,893	$13,070	$18,697	$8,357	$12,796	$8,926	$6,165
System Access Other Misc	$0	$0	$1	$41	$0	$0	$0	$59	$0	$0	$0
Metering	$4,950	$2,406	$3,446	$1,791	$1,264	$2,905	$2,145	$3,544	$2,831	$4,440	$6,760
System Access	**$17,030**	**$26,229**	**$25,620**	**$22,790**	**$27,821**	**$32,024**	**$37,560**	**$29,561**	**$32,213**	**$30,531**	**$30,667**

JT.2.9

a) With reference to the four items in the table at PRZ-AMPCO-7, to match up the ICM projects to what's under the System Renewal spending.

Response:

a) The system renewal capital investements from Table 1 in PRZ-AMPCO-7 are provided in Tables 1 to 3 below.

Table 1 – 2018 PRZ Cable Injection Initiatives

Initiatives	CAPEX ($)
Cable Injection - Kennedy – 16th – McCowan-Hwy7 (Markham)	$692,134
Cable Injection - Woodbine and 14th (Markham)	$857,442
Cable Injection - Konrad Cres Woodbine and 14th (Markham)	$730,436
Cable Injection - Young – Steeles – Bathurst – Centre (Vaughan)	$714,142
Cable Injection - Steeles and Pine Valley (Vaughan)	$768,592
Cable Injection - Langstaff and Weston (Vaughan)	$613,354
Total	**$4,376,100**

Table 2 - 2018 PRZ Cable Replacement Projects

Projects	CAPEX ($)
Cable Replacement - (M49) – Steeles and Fairway Heights (Markham)	$1,842,953
Cable Replacement - (V08) – Steeles Ave and New Westminster (Vaughan)	$2,637,048
Cable Replacement - (Barrie) – Cook St and Simcoe Terrance	$963,047
Cable Replacement - (Barrie) – Donald St and Simcoe Terrace	$397,144
Cable Replacement - (V22) – Doney Cres (Vaughan)	$101,077
Cable Replacement - (M33) - Carlton Rd	$338,490
Cable Replacement - Left Behind Cable Segments	$2,207,515
Total	**$8,487,274**

Table 3 – 2018 PRZ Emerging Cable Replacement Projects

Projects	CAPEX ($)
Emerging Cable Replecement Projects	$541,127
Total	**$541,127**

JT.2.10

a) Please provide a copy of the Kinectrics study referenced on Page 40 of Attachment 33.

Response:

a) The Transient Recovery Voltage Assessment of Transformer Breakers by Kinectrics is attached as JT2.10_Attach 1_Kinectric Study on TRV for Breakers.

KINECTRICS

To:

TRANSIENT RECOVERY VOLTAGE ASSESSMENT OF TRANSFORMER BREAKERS AT GREENWOOOD TS

Kinectrics Inc. Report No. K-015086-001-RC-0001-R00

July 10, 2009

N. Fujimoto
Principal Engineer
Transmission & Distribution Technologies Business

Kinectrics Inc., 800 Kipling Avenue
Toronto, Ontario M8Z 6C4

KINECTRICS

To:

ASSESSMENT OF SIEMENS 8DA10 CIRCUIT BREAKERS FOR TRANSIENT RECOVERY VOLTAGE DUTY AT GREENWOOD TS

Kinectrics Inc. Report No. K-015086-001-RC-0002-R00

July 10, 2009

N. Fujimoto
Principal Engineer
Transmission & Distribution Technologies Business

PRIVATE INFORMATION

Kinectrics Inc., 800 Kipling Avenue
Toronto, Ontario M8Z 6C4

INTRODUCTION

At the request of Mr. Bob Braletic of Powerstream, Inc., Kinectrics has reviewed and assessed a type test report, provided by Powerstream, within the context of transient recovery voltage (TRV) computations previously performed for transformer breakers at Greenwood TS [1]. The type test report, provided by Powerstream, details short circuit performance of the Siemens 8DA10 breaker. Tests were conducted at the KEMA laboratories in 2003 [2].

ESTIMATES OF TRV AT GREENWOOD TS

The previous TRV study [1] indicated that the transformer breakers at Greenwood would be subjected to a high rate-of-rise TRV in the event of a bus fault. Computations were done for both the case of a 3-phase grounded fault (more likely) and a 3-phase ungrounded fault (more severe TRV). Overall the TRV wave shape in this configuration is oscillatory, following a '1-cosine' pattern. TRV characteristics depend strongly on capacitances between the transformer and breaker of interest. The capacitances used for the calculations were based on guidelines provided in IEEE Std. C37.011-1994. As IEEE provides a range, computations were performed on the basis of minimum and maximum capacitance estimates, as well as a 'best guess' value

The TRV estimates are listed in Table 1 [1].

Table 1 – TRV Estimates for Transformer Breakers at Greenwood TS.

	MIN Cap	MAX Cap	Best Estimate
3-phase Grounded Fault			
TRV peak (kV)	53.2	53.6	53.5
TRV time to peak (μS)	14.7	32.5	21.8
TRV rate of rise (kV/ μS)	3.62	1.65	2.45
3-phase Ungrounded Fault			
TRV peak (kV)	67.1	67.7	67.3
TRV time to peak (μS)	13.6	30.6	19.4
TRV rate of rise (kV/ μS)	4.93	2.21	3.47

BREAKER SPECIFICATIONS AND TRV

According to the type test report [2], the Siemens breaker has the following specifications

Breaker	8DA10 (SF6-insulated, vacuum interrupter)
Rated voltage	36 kV (type tests performed at 40.5 kV
Rated current	2000A
Rated short circuit current	31.5 kA
Standard	IEC 62271-100, subclauses 6.6, 6.102-6.106, 6.108

Tests were conducted under several test duties, as required by the standard. In terms of TRV duty, the relevant tests and prospective TRV characteristics described in the type test report are shown in table 2. In addition, the present TRV requirements according to the latest version of the IEC standard [3] is listed in Table 3 for comparison purposes

Table 2 – TRV conditions according to Type Test Report

Test Duty	Test current	Uc (kV)	T3 (μs)	Uc/T3 (kV/μs)	Max actual TRV during tests (kV)
T100s	100% (symmetric)	70	108	.648	77.5
T100a	(asymmetric)	70	108	.648	68.9
T60	60%	75	47	1.59	75.6
T30	30%	77	22	3.5	78.2
T10	10%	75.9	27	2.81	77

Table 3 – TRV conditions according to IEC 62271-100-2006 – Table 27

Test Duty	Test current	Uc (kV)	T3 (μs)	Uc/T3 (kV/μs)
T100	100%	67.9	57	1.19
T60	60%	72.7	38	1.91
T30	30%	76.7	23	3.33
T10	10%	79.4	23	3.45

Notes (Tables 2,3):
Uc = prospective peak of transient voltage
T3= time to prospective peak
'Prospective' refers to the case where TRV is estimated assuming an ideal breaker

We note that the prospective TRV values in the type test report do not exactly align with the values in the present standard. However, we note that several amendments to the standard were taken since the date of the type test.

COMPARISON OF TRV TEST CONDITIONS AND CALCULATED VALUES

The TRV conditions described in the type test report are close to those calculated at Greenwood. We note that the TRV conditions for test duty T10 are less severe than that of T30 and less severe than the value listed in standard. However, a note in the test report explains that this was the lowest value achievable in that particular test configuration. This possibility is permitted in the standard. However, most breakers should be capable of handling higher TRV stresses when interrupting less current. Consequently, the T30 values are probably appropriate in assessing the breaker performance. Indeed, the IEC recommends that T30 is used with reference to transformer-limited fault capability. The conditions under consideration at Greenwood TS falls somewhere between T30 and T10

Overall, the test conditions are more favourable than the conditions described in the type test report for the 36 kV HD4 breaker [1]. However, depending on the assumptions used for the calculations, the test conditions do not always cover the required TRV duty. The comparison is shown graphically in figure 1. Both the T30 and T10 characteristic are shown in the figures for comparison.

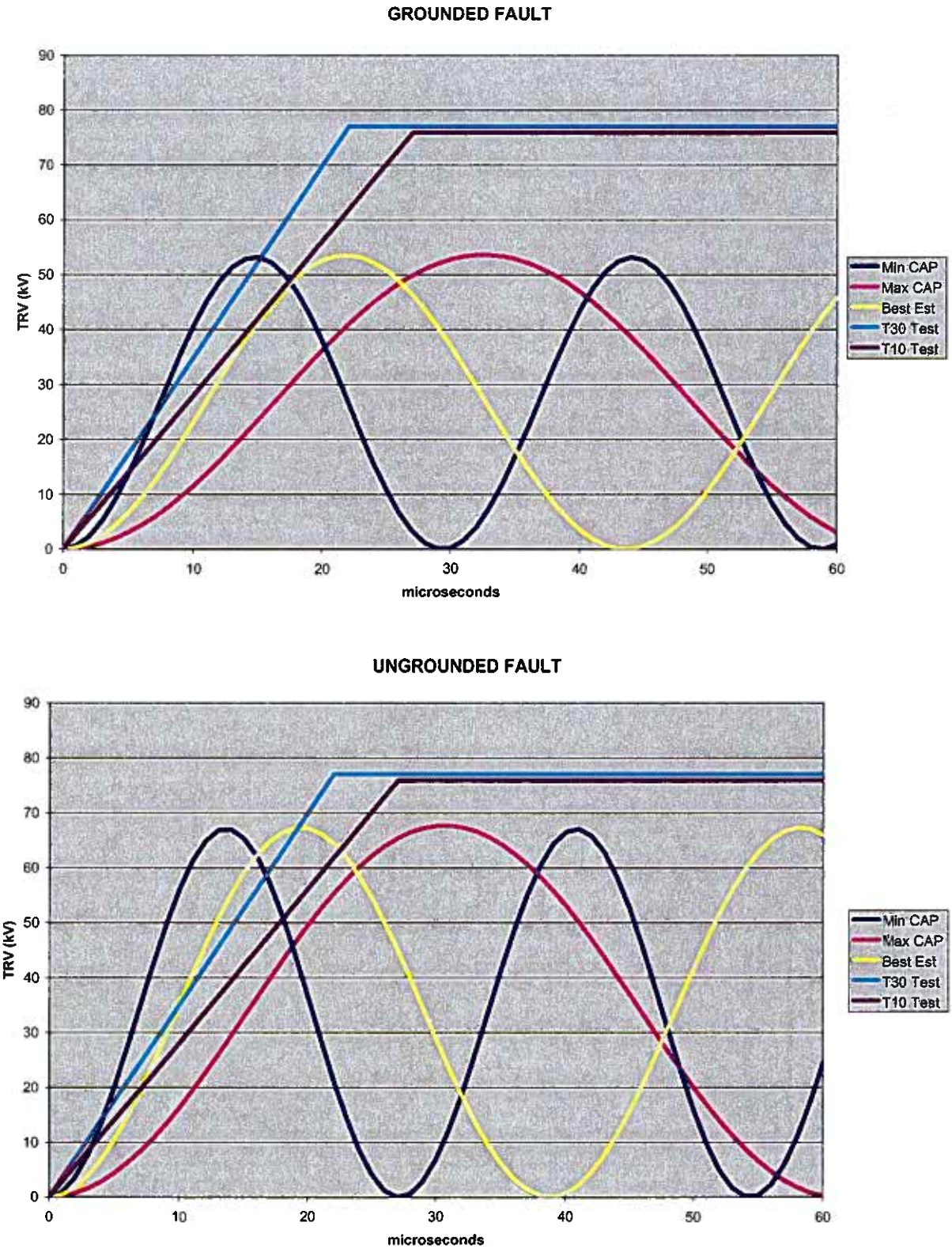


Figure 1 – Graphical representation of calculated TRV waveforms in comparison to test conditions in the type test report. The upper graph shows the results for the grounded 3-phase fault and the lower graph shows the results for the ungrounded case.

The graphs in the figure suggest that the Siemens breaker has been adequately demonstrated in the tests for maximum to 'best guess' capacitance assumptions for the grounded fault case and for maximum capacitance assumptions for the ungrounded fault case. The demonstration of capability by tests is 'marginal' for the situation at Greenwood TS, overall, but can also be considered 'inadequate' if worst case TRV conditions are to be considered. As described in the previous report [1], we note that it is possible that this particular breaker could be successful in actual practice but this capability has not been adequately demonstrated by the testing. Unlike the HD4 breaker, the Siemens breaker uses a vacuum interrupter – the SF6 pressure would have no bearing on the breaker interruption capability.

ADDITIONAL NOTES REGARDING STANDARDS

The issue of TRV arising from transformer-limited faults seems to be increasingly of concern as both ANSI and IEC standards have introduced special provisions to cover this application.

IEC 62271-100, Annex M [3] outlines "Requirements for breaking of transformer-limited faults by circuit breakers with rated voltage higher than 1 kV and less than 100 kV" IEC recommends using test duty T30 to prove this capability, and lists the following parameters for 36 kV class breakers:

TRV peak value Uc = 71 kV
Time T3 = 11.5 µs
RRRV Uc/T3 = 6.17 kV/ µs

ANSI C37.06.1-2000 [4] is a separate document: "Guide for High-Voltage Circuit Breakers Rated on a Symmetrical Current Designated "Definite Purpose for Fast Transient Recovery Voltage Rise Times", that addresses the same issue. This document lists the following parameters for 38kV, 31.5 kA breakers.

Definite Purpose TRV at 30% rated Short Circuit Current
Peak voltage = 80 kV
Time to peak = 11 µs (7.3 kV/ µs)

Definite Purpose TRV at 7% rated Short Circuit Current
Peak voltage = 83 kV
Time to peak = 20 µs (4.2 kV/ µs)

A breaker tested to either of the above would meet the TRV requirements calculated for Greenwood TS.

CONCLUSIONS

The type test report for the Siemens breaker indicate TRV conditions that are more favourably aligned to calculated values as compared to that indicated by the type test report for the ABB HD4 breaker [1]. However, the test conditions do not cover the entire range of conditions calculated for Greenwood TS. Consequently, accepting this breaker (given the available information) for use at the transformer breaker position at Greenwood TS would be risky.

The same recommendations listed in the previous report [1] apply and are repeated below for clarity.

In order to assure proper coordination of the transformer breakers, several solutions are suggested:

1. have the breaker tested for the higher rates of rise (perhaps according to ANSI C37.06.01-2000) or IEC 62271-100, annex M to demonstrate capability for these conditions

2. use the breaker, as is, for this application but add additional capacitances between the transformer and breaker to reduce the TRV rate of rise to acceptable levels.

3. Consider the purchase another breaker, such as from a higher voltage class, which have demonstrated TRV capability to meet needs.

REFERENCES

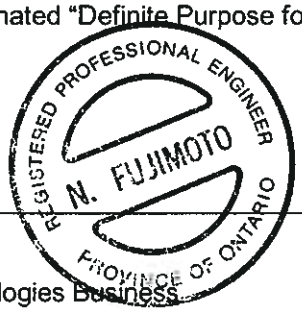
1. "Transient Recovery Voltage Assessment of Transformer Breakers at Greenwood TS". Kinectrics report to Powerstream. Report K-015086-001-RC-0001-R00. July 2009.

2. KEMA Type Test Certificate of Short Circuit Performance 6-03 (for Siemens AG) Breaker 8DA10. April 2003 (document provided by Powerstream)

3. International Standard IEC 62271-100 Edition 1.2 2006-10. High-voltage switchgear and controlgear – Part 100: High-voltage alternating-current circuit-breakers. Edition 1:2001 consolidated with amendments 1:2002 and 2:2006

4. ANSI C37.06.1-2000. American National Standard – Guide for High-Voltage Circuit Breakers Rated on a Symmetrical Current Designated "Definite Purpose for Fast Transient Recovery Voltage Rise Times".

Prepared by:



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DISTRIBUTION

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INTRODUCTION

At the request of Mr. Bob Braletic of Powerstream, Inc., Kinectrics has performed an assessment of Transient Recovery Voltages (TRV) that could be experienced by the transformer circuit breakers at Greenwood (Vaughan) TS. The assessment was in support of purchasing decisions by Powerstream to replace older HKSA SF6 Breakers with a newer design HD4 breaker. Powerstream had experienced several failures of the HKSA breaker and had concluded that these (now obsolete) breakers were approaching end-of-life.

The most recent failures of the HKSA breakers had prompted concerns over TRV issues. In the previous incident, a feeder breaker (M14) failed when attempting to clear a fault downstream. The M14 breaker failed to interrupt and resulted in venting of SF6 gas, resulting in a local 3-phase-to-ground fault. This secondary fault caused the associated transformer breakers to operate. Although the fault was cleared successfully, one of the transformer breakers (T2B) also vented SF6 gas on two phases and was deemed to have failed. Investigations by Kinectrics [1] Indicated that the M14 breaker failed for mechanical reasons, but the reasons for the T2B failure were not clear. Evidence suggested that all three phases had difficulty in interrupting the fault but, otherwise, no particular defect or deficiency was found. Evidence suggested that SF6 pressure could have been low but, according to the manufacturer, was still within permissible operating range.

The present investigations are intended to assess the TRV duty experienced by the T2B breaker during this incident and to use these findings to assess the suitability of the new HD4 breakers to be purchased as replacements.

Station Layout

Greenwood (Vaughan) TS uses an arrangement typical for distribution feeder stations. The station consists of two 28 kV busses (A and B) separated by a normally open bus-tie breaker. Each bus has approximately 6 feeders, each of which is protected by a breaker. The busses are fed from transformers supplied from separate 230kV transmission lines (double circuit arrangement). Greenwood TS uses two transformers, each with two secondaries: X and Y. The X secondaries feed 'A' bus and the Y secondaries feed 'B' bus. Each of the transformer feeds includes an LV breaker. A simplified one-line is shown in figure 1.

Fault Scenario and TRV

According to Powerstream, the station was operating 'normally' with about 37 MVA (28 kV) load on the B bus at the time of failure. In addition, the bus-tie breaker (between A and B bus) was open. The two capacitor banks (one for each bus) were also disconnected at that time. Both transformers were in service.

As indicated above, the failure of the M14 breaker caused a local 3-phase-to-ground fault at the breaker location. Effectively, this corresponded to a fault on the B-bus. Consequently, the relevant network for the purposes of TRV assessment for breaker T2B can be greatly simplified. This simplified network is shown in figure 2 and an equivalent circuit shown in figure 3. This configuration is referred to as a 'Transformer-limited fault" in standards and results in an oscillatory TRV characteristic. The associated duty on circuit breakers installed in transformer positions tends to be more onerous that than experienced by breakers in feeder position since the TRV frequency is considerably higher, impressing a particularly rapid rate-of-rise of recovery voltage across the breaker terminals.

In this case, V and L (in the figure) represent the equivalent source and source impedance. L is a composite of the transformer impedance and the system impedance and the combination of these limits the fault current at this location. The impedances of both transformers need to be taken into account in determining this value. C represents the total capacitances between the transformer and breaker and would include the inherent

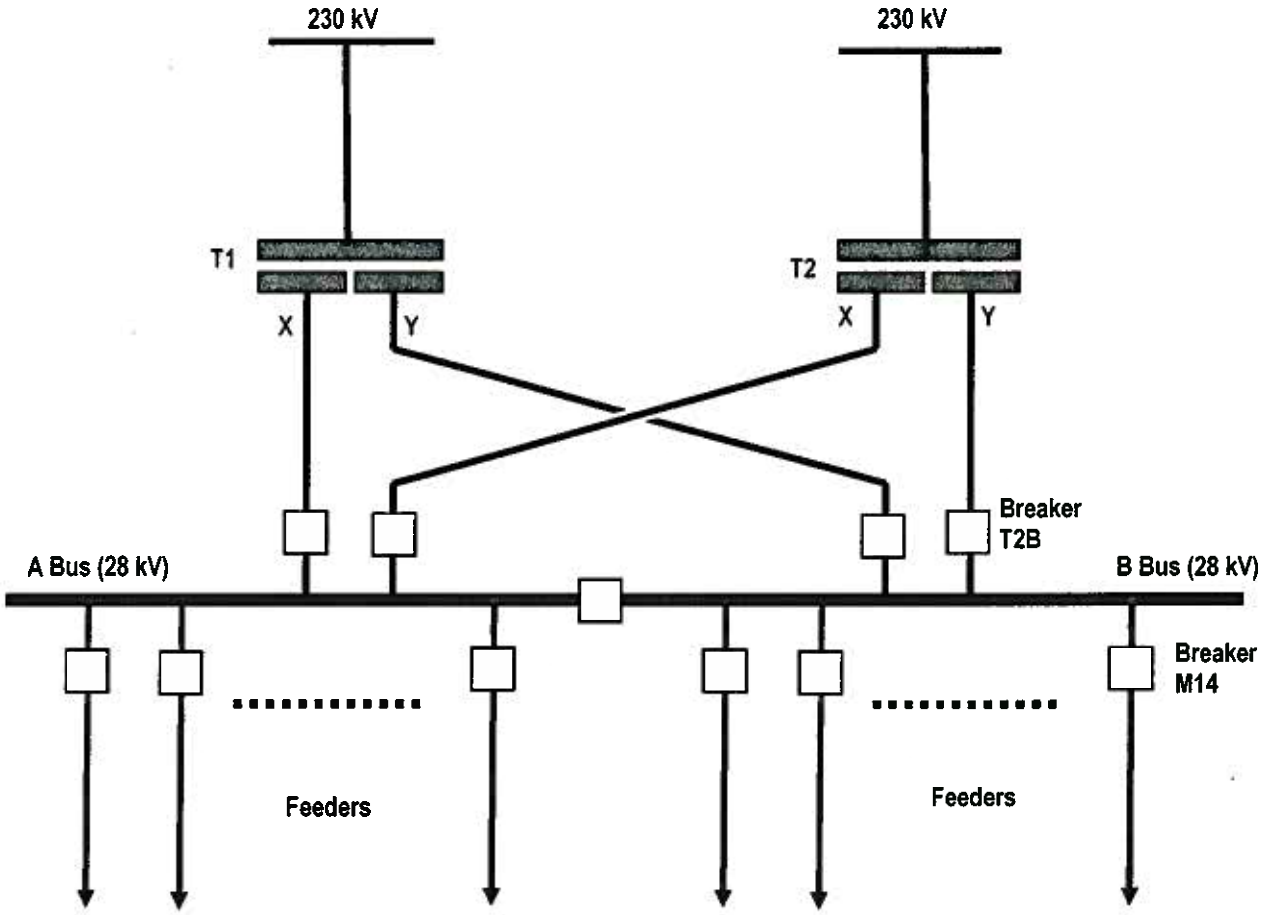

Figure 1 – Simplified One-line of Greenwood (Vaughan) TS

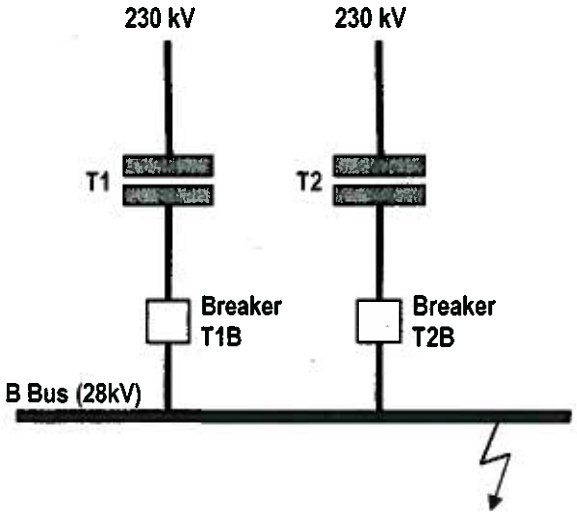

Figure 2 – Simplified Network for Failure of T2B Breaker

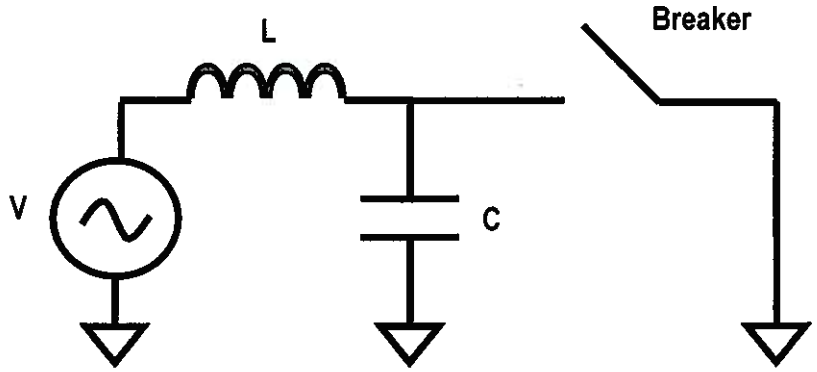

Figure 3 – Simplified Single Phase Equivalent Circuit for Failure of T2B Breaker

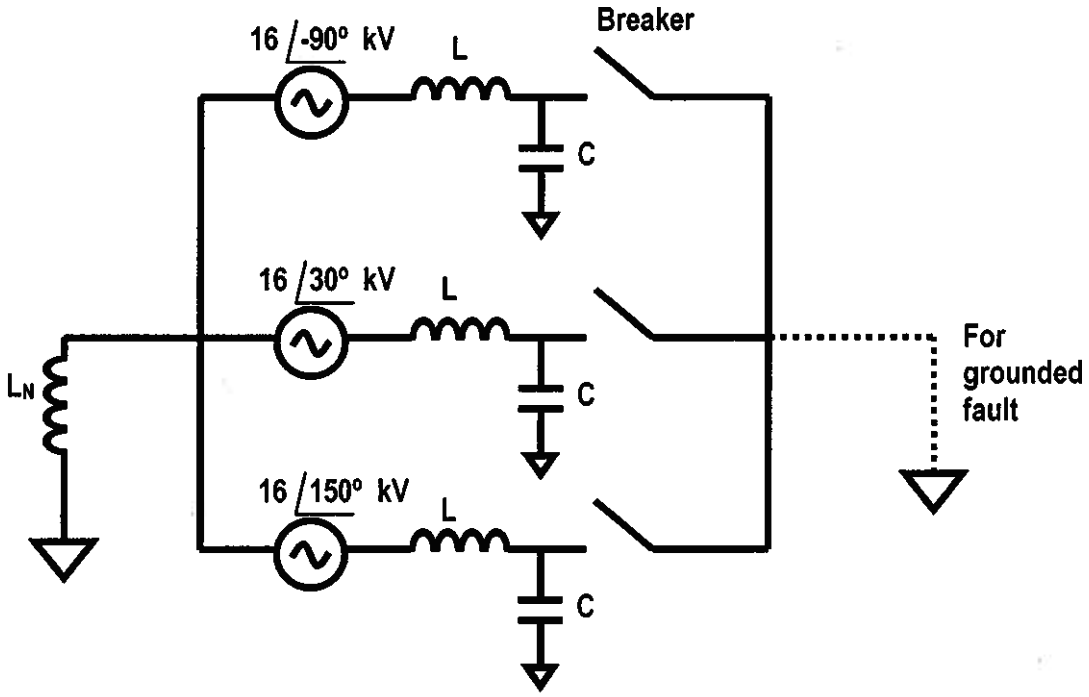

Figure 4 – Equivalent Circuit for 3-phase fault, including a neutral impedance.

capacitance of the transformer and the capacitances of all components at this location, Including instrument transformers, bushings and the capacitance of the bus connection itself. As two transformers and two breakers are involved, the connections for each should be considered. The TRV would be generated across the open contacts of each breaker when the fault current is interrupted. According to standards and for the purposes of estimate, the breaker is considered to be ideal (i.e. the breaker itself does not affect the TRV).

Since the present case involves a fault to ground, the modeling was done initially on the basis of a single phase system. However, In order to account for differences between 3-phase and 1-phase-to-ground

fault levels, a neutral impedance was required. This can be accommodated in a three-phase equivalent model, as shown in figure 4. As ungrounded three–phase faults are considered to be a worst-case condition from a TRV perspective (first pole to clear basis), simulations using the model in figure 4 were done both in the case of a grounded and ungrounded three phase fault.

ESTIMATING PARAMETERS FOR TRV

The TRV characteristic will depend on the values of L and C as shown in the equivalent circuit of figure 4.

Source Impedance.

The most convenient way of establishing the value for L (positive sequence impedance) is to consider the fault current levels at the location of interest.

According to Powerstream, the available fault current at B bus at Vaughan TS is 13,483 A for a three phase fault. Assuming the two transformers are balanced, each is capable of delivering half of the fault current or 6,742A.

Assuming a system voltage of 27.6 kV, the equivalent single-phase impedance can be estimated as follows:

$$Z_{equiv} = (27.6 / \sqrt{3}) / 6742$$
$$= 2.36 \text{ ohms } (6.26 \text{ mH})$$

This value is an "equivalent" positive-sequence impedance and includes the impedances of the transformer and the system impedance behind the transformer. In fact this turns out to be almost entirely due to the transformer alone given that the nameplate leakage impedance for the unit is quoted as lying between 11.0% and 11.5% on 28 kV, 37.5 kVA, which translates into 6.10 - 6.38 mH.

For three-phase calculations, an additional impedance was placed between the neutral and ground of the source model, to account for zero sequence currents. This impedance, calculated by knowing the line-to-ground fault values (10,356 A, according to Powerstream) introduces an imbalance that accounts for the TRV duty becoming more onerous for the 'first pole to clear' for a three-phase fault. This impedance was calculated to be 0.71 ohms or 1.9 mH.

System Capacitances

Exact values of the various components are not always available, and values need to be estimated. The IEEE Application guide for Transient Recovery Voltage (IEEE Std. C37.011-1994 [2]) provides some guidance on these matters and ranges (capacitance) are provided for a variety of components. According to the station 1-line diagram, there is a short section of bus, 4 CTs and 2 bushings between the transformer and breaker. Estimates for these values are provided in table 1, showing both the minimum and maximum values according to C37.011, and a 'best guess' estimate. In most cases, the 'best guess' is simply the midpoint within the range provided by IEEE. However, the equivalent transformer capacitance was estimated considering recent field measurements of transformer of similar size and voltage. Note that higher values of capacitance would tend to reduce the TRV duty – it is often better to estimate 'low' in order to estimate more severe conditions.

Table 1 – Estimated values of Capacitances using IEEE guidelines

	IEEE C37.011-1994				MIN values		MAX values		Best Guess	
	min	max	units	no	T1B	T2B	T1B	T2B	T1B	T2B
Transformer capacitance	2000	12000	pF	1	2000	2000	12000	12000	4500	4500
Bus T1B	33	66	pF/m	24m	792		1584		1200	
Bus T2B	33	66	pF/m	12m		396		792		600
CTs	75	260	pF	4	300	300	1040	1040	670	670
Tx bushing	150	650	pF	1	150	150	650	650	400	400
CB bushing	30	200	pF	1	30	30	200	200	115	115
TOTAL			**pF**		3272	**2876**	15474	**14682**	6885	**6285**

TRV ESTIMATION

The present situation of a 'transformer-limited fault' is best described as having an oscillatory TRV characteristic with a '1-cosine' shape [2] As there are few resistances in the circuit, the characteristic is poorly damped.

A number of simulations were performed using PSCAD software. For most simulations, a three-phase source was employed with the addition of a neutral impedance as previously discussed. Simulations were performed assuming a three-phase grounded fault (as in the T2B breaker failure case) and a three-phase ungrounded fault (worst case TRV). Simulations were also performed for minimum and maximum estimates for capacitance, as well as for the 'best estimate' values. The results of the simulations are listed in Table 2

Figure 5 shows an example of a PSCAD simulation, showing the computed TRV voltage across the contacts of an ideal breaker, based on the 'best estimate' values given in table 1. The example in the figure is that for a 3-phase ungrounded fault.

Table 2 – Estimates of TRV parameters from PSCAD simulations

	MIN Cap	MAX Cap	Best Estimate
EQUIV L (mH)	6.26	6.26	6.26
EQUIV C (pF)	2876	14682	6285
3-phase Grounded Fault			
TRV peak (kV)	53.2	53.6	53.5
TRV time to peak (μS)	14.7	32.5	21.8
TRV rate of rise (kV/ μS)	3.62	1.65	2.45
3-phase Ungrounded Fault			
TRV peak (kV)	67.1	67.7	67.3
TRV time to peak (μS)	13.6	30.6	19.4
TRV rate of rise (kV/ μS)	4.93	2.21	3.47

Figure 5 – Example of PSCAD simulation of TRV. This result is the 'first pole to clear' using 'best estimate' parameters from Table 2 and assuming an ungrounded three phase fault.

COMPARISON WITH HD4 CHARACTERISTICS

The specifications for the HD4 breaker (36 kV class) were provided by Powerstream. In addition, copies of a type test report [6] performed in 2001 was provided. These reports were done on a similar breaker as those considered for purchase by Powerstream. Subsequent to preliminary discussions between Powerstream and the manufacturer, a higher voltage breaker (HD4-40) was with better TRV characteristics was proposed. The type test report for this breaker was also provided [7].

According to the type test reports, the breakers under consideration had the following specifications (TRV specifications were not available elsewhere).

	HD4-36	***HD4-40***
Rated voltage	*36 kV*	*40.5 kV*
Rated current	*1250 A*	*2000 A*
Short circuit breaking current	*31.5 kA*	*31.5 kA*
TRV peak value	*62 kV*	*69.5 kV*
TRV rate of rise	*0.57 kV/us*	*0.6 kV/us*
Rated SF6 pressure	*0.38 MPa*	*0.55 MPa*
Minimum SF6 pressure	*0.28 MPa*	*0.45 MPa*

We note that the stated TRV rate of rise values are consistent with ratings listed in ANSI/IEEE C37.06-2000 Table 1 [3] but are not adequate when compared to the calculated TRV values above. This standard, does allow for more severe TRV duty when interrupting currents less than the interrupting rating but even these do not appear to be adequate. These characteristics are described for the 36 kV class breaker in Table 3. An associated guide, ANSI C37.06.1-2000 [4] seems to recognize the deficiency in TRV ratings in special cases (such as for the present case of a transformer-limited fault) and suggests higher ratings for "Definite Purpose" breakers designed for fast TRV risetimes. This Guide suggests TRV ratings corresponding to about 7.3 kV/us and 4.15 kV/us for when interrupting 30% and 7% of rated short circuit current. Breakers tested according to these ratings would have been more suitable for the present application.

The HD4-36 breaker was originally tested according to older (1987) IEC standards. IEC also make allowances for interrupting less than rated short circuit current and defines several test duties with

different TRV values [5]. These conditions are represented in the type test reports and are summarized in table 4:

Table 3 – Adjusted TRV parameters according to IEEE when interrupting less than rated current. The last line shows the estimated values for the T2B fault level using linear interpolation.

% rating	Current (kA)	E2 factor	T2 Factor	E2 (kV)	T2 (µs)	rate of rise (kV/µs)
100	31.5	1	1	71	125	0.57
60	18.9	1.07	0.67	75.97	83.75	0.91
30	9.45	1.13	0.4	80.23	50	1.60
10	3.15	1.17	0.4	83.07	50	1.66
21.4	6.75			81.4	50	1.63

E2=rated TRV peak voltage (kV)
T2 = rated TRV time to peak (us)

Table 4 a,b – TRV parameters described in test duties listed in type test reports. The last line in each table shows the estimated values for the T2B fault level using linear interpolation.

a) HD4-36 [6]	Current (kA)	Uc (kV)	T3 (µs)	Uc/T3 (kV/µs)
Test duty 1	3,4	74	23	3.2
Test duty 2	10	63	30	2.1
Test duty 3	20	63	46	1.36
Test duty 4	31.5	62	105	0.59
Estimated for T2B	6.75	68.4	26.6	2.6

b) HD4-40 [7]	Current (kA)	Uc (kV)	T3 (µs)	Uc/T3 (kV/µs)
Test duty T10	3.15	82	24	3.4
Test duty T30	9.55	70.7	23	3.1
Test duty T60	19	76.7	44	1.74
Test duty T100s	31.5	69.8	113	0.62
Estimated for T2B	6.75	75.6	23.4	3.2

Uc = prospective peak of transient voltage
T3= time to prospective peak
'Prospective' refers to the case where TRV is estimated assuming an ideal breaker (i.e. neglecting any moderating influence on the TRV due to breaker arcing impedance)

The values in the test report suggest much better TRV performance for reduced short circuit levels than suggested by the base ratings. However, in this case, it is unclear whether the TRV performance of the breaker is adequate for the present application. With reference to the estimated actual values in table 2,

TRV capability of the HD4 breaker may or may not be adequately demonstrated, depending on the assumptions made for the equivalent circuit parameters, although the 40kV version is better.

The calculated TRV levels are shown graphically in figure 6, in comparison to the prospective TRV values listed in the type test reports

IEEE Standards also require that circuit breakers rated 15.5 kV and above be capable of interrupting single-phase short-line faults at any distance from the circuit breaker. This type of a fault subjects the circuit breaker to a sawtooth shaped TRV waveform. In the present context, the initial ramp on this waveform rises to about 36.9 kV and reaches a peak at about 23 μs (as determined on the basis of the circuit breaker being rated 36-kV and subjected to about 21.5% of its rated (31.5 kA) short current interrupting rating). The associated rate of rise is about 1.6 kV/μs - about the same as indicated in Table 3.

According to the 36 kV type test reports, the short circuit tests for HD4 breaker were conducted at the minimum permissible SF6 pressure of 0.28 MPa (abs), as compared to the nominal fill pressure of up to 0.55 MPa (abs). With higher SF6 levels, one would expect that the HD4 breaker has capability in excess of that demonstrated in type-tests. The same comments apply to the 40 kV breaker although there is less margin for improvement as the minimum fill pressure is higher. When operated at full nominal pressure, both of these breakers might be capable of meeting the TRV requirements – unfortunately, there is no documentation to support this conjecture.

CONCLUSIONS

Calculations were performed to estimate the TRV conditions corresponding to a transformer breaker clearing a bus fault, similar to that which occurred previously when breaker T2B failed. As exact capacitance values were not available, guidelines available in IEEE standards were used, resulting in a range of rates of rise of TRV from 1.7 to 3.6 kV/μs, and a 'best estimate' value of about 2.5 kV/μs for the first pole to clear a 3-phase grounded fault. When considering the worst-case situation of the TRV duty experienced by the first pole to clear an ungrounded 3-phase fault (which is unlikely in metalclad switchgear), the rates of rise of TRV range from 2.2 to 4.9 kV/μs with a best estimate value of about 3.5 kV/μs. These values are more onerous that those generally specified in standards, although there is some provision for dealing with fast-rising TRV in both IEEE and IEC.

The type test reports for the breaker under consideration for purchase (HD4) indicate that this breaker was tested for fast rates of rise of TRV when interrupting less than rated short circuit current according to IEC standards The TRV conditions of the tests are somewhat similar to the estimated conditions at Greenwood when considering grounded faults but, might be considered 'marginal' at best. The breaker rated at 40 kV has better TRV characteristics than the 36 kV breaker, although both do not cover the worst case conditions. However, as type tests were carried out at minimum SF6 fill conditions, one might conjecture that the HD4 breakers could perform satisfactorily in actual practice, as higher SF6 fill levels should result in better capability and because worst-case TRV conditions may be rare in practice. However, the range of possible conditions has not been adequately covered in the type tests and these speculations have not been demonstrated.

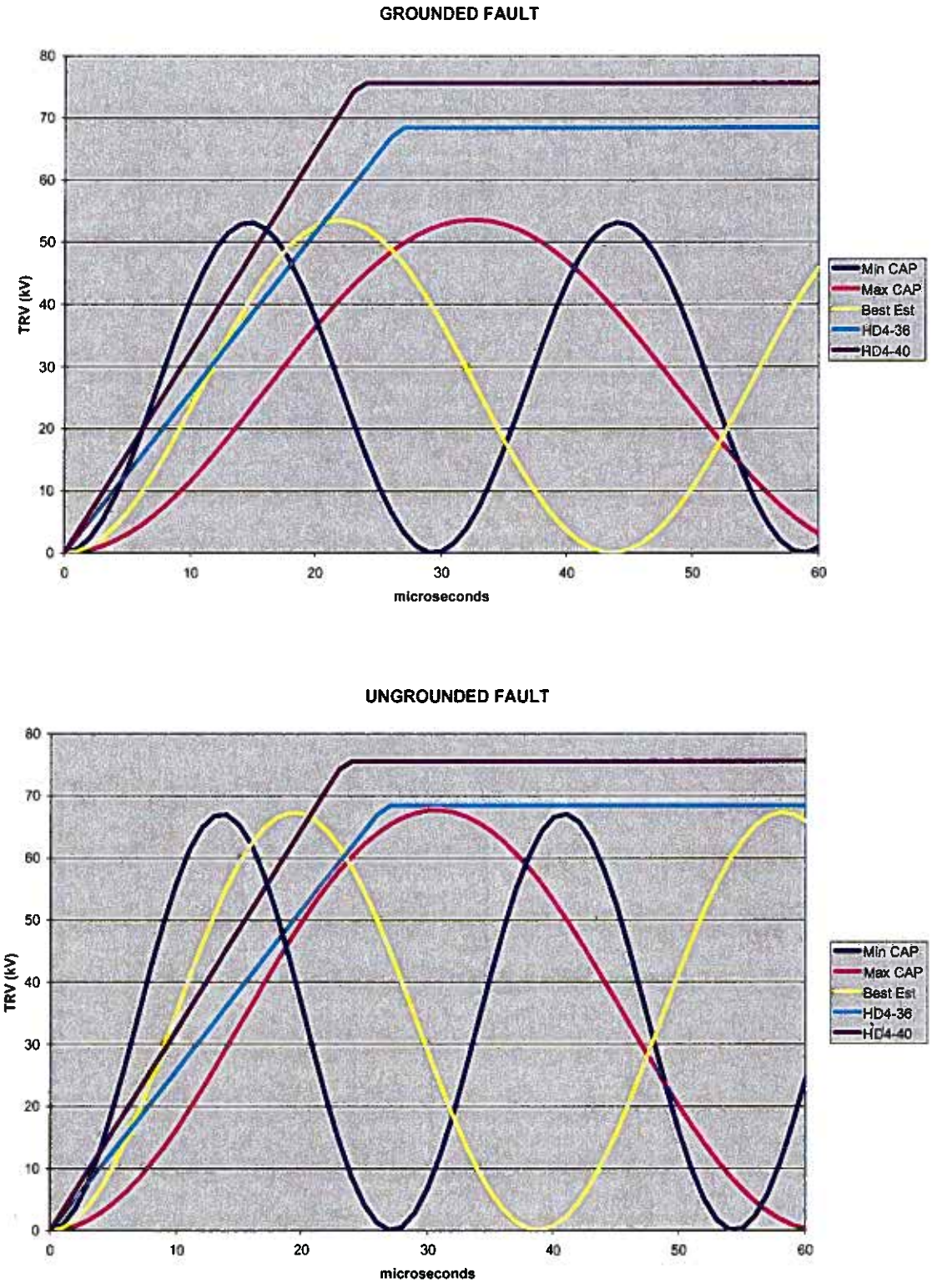

Figure 6 – Graphical representation of calculated TRV waveforms in comparison to prospective values in the HD4 type test reports. The upper graph shows the results for the grounded 3-phase fault and the lower graph shows the results for the ungrounded case.

In order to assure proper coordination of the transformer breakers, several solutions are suggested. Any or all of these solutions need to be developed in consultation with the breaker manufacturer:

1. have the HD4 breaker tested for the higher rates of rise (perhaps according to ANSI C37.06.01-2000) to demonstrate capability for these conditions

2. use the HD4 (40 kV version) , as is, for this application but add additional capacitances between the transformer and breaker to reduce the TRV rate of rise to acceptable levels

3. Consider the purchase of another breaker, such as from a higher voltage class, which have demonstrated TRV capability to meet needs.

REFERENCES

1. "Investigation of Failed 28 kV Breaker Poles". Kinectrics report to Powerstream. Report K-014862-001-RC-001-R00. April 23, 2009.

2. IEEE Std. C37.011-1994. IEEE Application Guide for Transient Recovery Voltage for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis.

3. ANSI C37.06-2000. American National Standard – AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis – Preferred Ratings and Related Required Capabilities.

4. ANSI C37.06.1-2000. American National Standard – Guide for High-Voltage Circuit Breakers Rated on a Symmetrical Current Designated "Definite Purpose for Fast Transient Recovery Voltage Rise Times".

5. International Standard IEC 62271-100 Edition 1.2 2006-10. High-voltage switchgear and controlgear – Part 100: High-voltage alternating-current circuit-breakers. Edition 1:2001 consolidated with amendments 1:2002 and 2:2006

6. CESI Test Report GPS-A1/017215 (for ABB T&D, Italy) Three-pole SF6 Circuit Breaker – short circuit tests. June 1, 2001.

7. CESI Test Report GPS-A3/003114 (for ABB Technology, CH) Three-pole SF6 Circuit Breaker. Jan 30, 2003.

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DISCLAIMER

Kinectrics Inc. has prepared this report in accordance with, and subject to, the terms and conditions of the contract between Kinectrics Inc. and Powerstream Inc..

DISTRIBUTION

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N. Fujimoto	Kinectrics Inc., KL204

JT.2.11

a) Please provide an excel version of the spreadsheet in PRZ-AMPCO-18.

Response:

a) The excel version of the spreadsheet in PRZ-AMPCO-18 is attached as JT2.11_Attach_PRZ-AMPCO-18.

PowerStream Rate Zone
EB-2017-0024
PRZ-AMPCO-18 Appendix A

Asset	Actual # Assets Replaced 2016	Forecast # Assets Replaced 2017	Forecast # Assset Replaced (2018 Capital Projects Excluding ICM Projects)	# Assset Replaced (ICM Projects)	TOTAL	# Replaced in 2018 in Very Poor & Poor Condition
Substation Transformers	0	0	0	0	0	0
Circuit Breakers	8	6	0	10	24	4
Pole Mounted Transformers	N/A	N/A	N/A	N/A	N/A	N/A
Pad Mounted Transformers 1 Phase	56	118	120	0	294	120
Pad Mounted Transformers 3 Phase						
Vault Transformers	0	3	0	0	3	0
Pad Mounted Switchgear	34	34	33	0	101	33
Overhead Switches 44 kV Load Break	N/A	N/A	N/A	N/A	N/A	N/A
Overhead Switches 27.6 kV Load Break	N/A	N/A	N/A	N/A	N/A	N/A
Overhead Switches Inline	N/A	N/A	N/A	N/A	N/A	N/A
Overhead Switches Motorized	5	4	5	0	14	5
UG Cables Main Feeder	32,657 m	23,487 m	8,223 m	9,164 m	73,531 m	17,387 m
UG Cables Distribution						
UG Secondary Cable	N/A	N/A	N/A	N/A	N/A	N/A
Poles Wood	338	251	392	0	914	392
Poles Concrete	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL						

The number of assets in the above table includes only Planned Asset Replacement under the Asset Renewal Category

JT.2.12

a) To update the table with all of the programs reflected where assets are replaced.

Response:

a) Alectra Utilities has examined the feasibility of reporting the actual 2016 and forecasted 2017 assets replaced under system access and system service expenditures. As Alectra Utilities does not track the number of assets replaced for these investment categories in the PowerStream rate zone, it is unable to further update the table, as provided in response to PRZ-AMPCO-18.

JT.2.13

a) To provide the average FAIFI and FAIDI for all of the feeders.

Response:

The 3 year average FAIFI for the PowerStream rate zone from 2014 to 2016 was determined to be 0.7459 interruptions.

The 3 year average FAIDI for the PowerStream rate zone from 2014 to 2016 was determined to be 0.9169 hours.

JT.2.14

a) To advise the signing levels of authority for projects.

Response:

a) Capital investment signing levels of authority for Alectra Utilities is provided in Table 1.

Table 1 – Authorization Limits for Alectra Utilities

Position	Authorization Limit (Budgeted Expenditure)	Authorization Limit (Non-Budget Expenditure)
CEO	$ 25,000,000	$2,500,000
President/CFO	$ 5,000,000	$ 500,000
Senior Vice President	$ 1,000,000	$ 100,000
Vice President	$ 500,000	$ 50,000
Director	$ 100,000	$ 10,000
Manager	$ 50,000	$ 5,000
Supervisor	$ 25,000	$ 0

JT.2.15

a) To provide the number of 2017 failed transformers to date.

Response:

a) As of November 30th 2017, Alectra Utilities had experienced 52 transformers failures in the Enersource rate zone.

JT.2.16

a) To provide the Excel spreadsheet for AMPCO-6.

Response:

1a) Alectra Utilities provides the excel version of the spreadsheet response to ERZ-AMPCO-6
2 Appendix B as JT2.16_Attach_ERZ-AMPCO-6_AppendixB.

EB-2017-0024
Enersource Rate Zone
ERZ-AMPCO-6 Appendix B

	Capital Projects	Actual		Forecast	
		2015	2016	2017	2018
	OVERHEAD				
1	**Overhead Switch Replacement Program**				
	$	699,652	681,357	415,098	412,165
	# of Switches Replaced	151	173	96	96
2	**Insulator Replacement Program**				
	$	286,453	305,228	311,323	309,123
	# of Insulators Replaced	892	780	873	868
3	**Wood Pole Replacement**				
	$	343,555	275,911	415,098	412,165
	# of Wood Poles Replaced	22	22	29	29
4	**Concrete Pole Replacement**				
	$	766,512	756,147	830,196	824,329
	# of Concrete Poles Replaced	38	42	44	43
5	**Overhead Transformer and Equipment Renewal**				
	$	2,173,769	3,512,999	4,078,337	4,078,337
	# of O/H Transformers Replaced	223	304	382	382
	UNDERGROUND				
6	**U/G Transformer and Equipment Renewal**				
	$	6,126,841	5,729,997	5,500,047	5,500,047
	# of U/G Transformers Replaced	427	374	370	370
7	**Padmounted Switchgear Replacement**				
	$	1,936,031	2,207,533	1,686,335	1,686,335
	# of Pad Mounted Switchgear Replaced	35	33	27	27
8	**Underground Cable and Splice Replacement**				
	$	1,152,401	1,390,267	2,386,813	2,386,813
	# of km completed	6,587	7,246	13,013	13,013
9	**Secondary Cable Replacement**				
	$	51,749	60,609	98,586	98,586
	# of km completed	394	486	770	770

JT.2.17

a) To add one more Cause Code to the table and provide the data for Major Events; to add the minutes that are attributable to Major Events as part of that interrogatory.

Response:

a) The updated table from AMPCO-8 with a Major Event category for the Enersource rate zone is provided in Table 1.

Table 1 – Updated Table from AMPCO-8 with Major Event Cause Code

Number of Sustained Interruptions						
	Cause Code	**2011**	**2012**	**2013**	**2014**	**2015**
0	Unknown/Other	8	49	33	26	35
100	Scheduled Outage	76	326	243	419	693
200	Loss of Supply	0	47	15	22	18
300	Tree Contacts	3	42	32	30	19
400	Lightning	4	11	8	9	3
500	Defective Equipment	57	385	398	409	450
600	Adverse Weather	2	17	36	225	58
700	Adverse Environment	1	5	0	1	5
800	Human Element	2	6	3	4	7
900	Foreign Interference	31	229	193	173	252
1000	Major Event	0	0	2	2	0

Table 2 provides customer impacts from Major Events including the number of customers affected and the customer minutes of interruptions.

Table 2 – Customer impacts from Major Events in the Enersource rate zone

	Number of interruptions	Number of customer interruptions	Number of customer-minutes of interruptions
2013- Event 1	84	191,021	45,326,768
2013- Event 2	106	89,236	11,204,694
2014- Event 1	12	13,296	922,582
2014- Event 2	32	19,697	846,424

JT.2.18

a) To update the data in the Table in ERZ-AMPCO-10

Response:

a) Alectra Utilities has provided an updated table from ERZ-AMPCO-10 with all tracked transformer replacements which include transformers with leaking oil and PCB. The updated table is attached in JT2.18_Attach_ERZ-AMPCO-10-Appendix D updated.

Asset	Population @ Dec 31 2015	Number of Units Replaced		Forecast Number of Units to be Replaced							TOTAL	% Assets Replaced in 2018 in very poor & poor condition
		2015	2016	2017	2018 Projects Excluding ICM	2018 ICM Projects	2019	2020	2021	2022		
Substation Transformers	108	2	3	2	0	0	0	1	2	2	7	
Substation Transformer Spares	12	0	0	0	0	0	0	0	0	0	0	
Circuit Breakers	432	30	17	15	9	4	16	25	22	20	111	
Pole Mounted Transformers	5353	472	451	320	77	212	200	191	129	39	1168	
Pad Mounted Transformers 1 Phase	14261	572	530	408	53	255	230	230	210	148	1534	
Pad Mounted Transformers 3 Phase	1860				1	41	38	0	0	0	80	
Vault Transformers	3854	138	253	193	0	170	162	209	159	104	997	
Pad Mounted Switchgear	834	49	60	47	40	0	40	40	40	40	247	
Overhead Switches 44 kV Load Break	337	85	100	89	60	2	94	94	94	94	559	
Overhead Switches 27.6 kV Load Break	206					2						
Overhead Switches Inline	2000					30						
Overhead Switches Motorized	110					0						
UG Cables Main Feeder	2238	14	23	17	49	21	22	22	22	22	377	
UG Cables Distribution	4076	41	41	20		14	42	42	42	42		
Poles Wood	12436	330	444	528	401	180	798	819	798	716	4508	
Poles Concrete	9488	151	135	76	192							
TOTAL	57605	1884	2057	1715	882	930	1642	1673	1518	1227	9587	

JT.2.19

a) To provide an update to the Table at 2 AMPCO-13 to include 2017

Response:

a) Alectra Utilities provides an update to Table 55 with September 2017 Year to Date expenditures and a 2017 Forecast as at Q3 2017 as JT2.19_Attach 1_Updated Table 55 Material Projects ERZ 2017_2022.

Undertaking JT2.19 referencing 2-AMPCO-13
Ref: Attachment #50 Page 265 Table 55

a) Please update table to include YTD and forecast for 2017

Business Unit	Description	2017	Actual YTD Sep	2017 Q3 Forecast	2018	2019	2020	2021	2022
C0531 - Roads	Other Non-Material Road Projects	$ 1,446,215	$ 284,603	$ 460,577	$ 323,555	$ 661,243	$ 327,838	$ 330,622	$ 351,036
C0531 - Roads	Project - Creditview - Britannia To Argentia	$ -	$ -	$ -	$ 1,294,220	$ -	$ -	$ -	$ -
C0531 - Roads	Project - QEW - Various Bridge Rehabilitations	$ -	$ -	$ -	$ 970,665	$ -	$ -	$ -	$ -
C0531 - Roads	Project - QEW - Evans to Cawthra	$ -	$ -	$ -	$ 1,617,775	$ -	$ -	$ -	$ -
C0531 - Roads	Project - Mavis - Courtney Park to City Limits	$ -	$ -	$ -	$ -	$ 1,322,486	$ -	$ -	$ -
C0531 - Roads	Project - Drew - Dixie to Tomken	$ -	$ -	$ -	$ -	$ 661,243	$ -	$ -	$ -
C0531 - Roads	Project - Courtney Park - Kennedy to Tomken	$ -	$ -	$ -	$ -	$ 661,243	$ -	$ -	$ -
C0531 - Roads	Project - Creekbank - Matheson To Shawson	$ -	$ -	$ -	$ -	$ -	$ 1,311,351	$ -	$ -
C0531 - Roads	Project Hwy 401 - Credit River To Hwy10	$ -	$ -	$ -	$ -	$ -	$ 1,967,026	$ -	$ -
C0531 - Roads	Project - Ninth Line -Eglinton to Britannia	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,322,486	$ -
C0531 - Roads	Project - Ninth Line - Britannia to Derry	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,653,108	$ -
C0531 - Roads	Project - Hwy 401 - WCB to Credit River	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,755,179
C0531 - Roads		**$ 1,446,215**	**$ 284,603**	**$ 460,577**	**$ 4,206,215**	**$ 3,306,215**	**$ 3,606,215**	**$ 3,306,216**	**$ 2,106,215**
C0532 - LRT	LRT - Underground	$ 200,000	$ 46,000	$ 200,000	$ 2,200,000	$ 4,600,000	$ 4,525,000	$ 4,300,000	$ 2,700,000
C0532 - LRT	LRT - Overhead	$ 200,000	$ 136,620	$ 200,000	$ 2,200,000	$ 4,200,000	$ 4,025,000	$ 3,500,000	$ 2,500,000
C0532 - LRT		**$ 400,000**	**$ 182,620**	**$ 400,000**	**$ 4,400,000**	**$ 8,800,000**	**$ 8,550,000**	**$ 7,800,000**	**$ 5,200,000**
C0541 - New Subdivisions(OfferConne	New Subdivisions	$ 2,171,524	$ 650,808	$ 671,524	$ 2,171,524	$ 2,171,524	$ 2,171,524	$ 2,171,524	$ 2,171,524
C0541 - New Subdivisions(OfferConnect)		**$ 2,171,524**	**$ 650,808**	**$ 671,524**	**$ 2,171,524**	**$ 2,171,524**	**$ 2,171,524**	**$ 2,171,524**	**$ 2,171,524**
C0542 - Ind/Comm Services	Industrial/Commercial Services	$ 4,345,963	$ 3,995,328	$ 4,345,964	$ 4,345,963	$ 4,345,963	$ 4,345,963	$ 4,345,963	$ 4,345,963
C0542 - Ind/Comm Services		**$ 4,345,963**	**$ 3,995,328**	**$ 4,345,964**	**$ 4,345,963**	**$ 4,345,963**	**$ 4,345,963**	**$ 4,345,963**	**$ 4,345,963**
C0544 - Residential Service Upgrades	Residential Service Upgrades	$ 763,069	$ 412,275	$ 763,069	$ 763,069	$ 763,069	$ 763,069	$ 763,069	$ 763,069
C0544 - Residential Service Upgrades		**$ 763,069**	**$ 412,275**	**$ 763,069**	**$ 763,069**	**$ 763,069**	**$ 763,069**	**$ 763,069**	**$ 763,069**
C0568 - Major Spares - Meters		$ -	$ 79,977	$ 309,624	$ -	$ -	$ -	$ -	$ -
C0568 - Major Spares - Meters		**$ -**	**$ 79,977**	**$ 309,624**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
C0594 - Smart Meters Large Users		$ -	$ 649,351	$ 650,000	$ -	$ -	$ -	$ -	$ -
C0594 - Smart Meters Large Users		**$ -**	**$ 649,351**	**$ 650,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
C0597 - Grid Supply Point Metering	Program - TCP/IP GSP Conversion & Reseal	$ 35,000	$ -	$ 35,000	$ 45,000	$ 35,000	$ 65,000	$ 10,000	$ 280,000
C0597 - Grid Supply Point Metering	Tomken Upgrade	$ 1,100,000	$ 278,832	$ 550,000	$ -	$ -	$ -	$ -	$ -
C0597 - Grid Supply Point Metering		**$ 1,135,000**	**$ 278,832**	**$ 585,000**	**$ 45,000**	**$ 35,000**	**$ 65,000**	**$ 10,000**	**$ 280,000**
C0598 - Metering	Program - Metering Renewal	$ 806,775	$ 726,472	$ 870,245	$ 764,000	$ 717,200	$ 717,200	$ 717,200	$ 817,200
C0598 - Metering	Program - New Metering Installations	$ 620,000	$ 698,290	$ 724,733	$ 620,000	$ 620,000	$ 620,000	$ 620,000	$ 620,000
C0598 - Metering		**$ 1,426,775**	**$ 1,424,762**	**$ 1,594,978**	**$ 1,384,000**	**$ 1,337,200**	**$ 1,337,200**	**$ 1,337,200**	**$ 1,437,200**
C0899 - Smart Meters - New Condos	Program - New IMS	$ 1,038,500	$ 478,931	$ 1,038,500	$ 1,054,000	$ 1,069,500	$ 1,069,500	$ 1,069,500	$ 1,069,500
C0899 - Smart Meters - New Condos	Program - Retrofit IMS	$ 368,000	$ -	$ 368,000	$ 372,000	$ 376,000	$ 376,000	$ 376,000	$ 376,000
C0899 - Smart Meters - New Condos		**$ 1,406,500**	**$ 478,931**	**$ 1,406,500**	**$ 1,426,000**	**$ 1,445,500**	**$ 1,445,500**	**$ 1,445,500**	**$ 1,445,500**
C0900 - Green Energy - FIT/MicroFIT	FIT & MicroFIT Projects	$ 125,000	$ 146,783	$ 150,827	$ 95,000	$ 70,000	$ 65,000	$ 50,000	$ -
C0900 - Green Energy - FIT/MicroFIT		**$ 125,000**	**$ 146,783**	**$ 150,827**	**$ 95,000**	**$ 70,000**	**$ 65,000**	**$ 50,000**	**$ -**
SYSTEM ACCESS		**$ 13,220,046**	**$ 8,584,270**	**$ 11,338,063**	**$ 18,836,771**	**$ 22,274,471**	**$ 22,349,471**	**$ 21,229,471**	**$ 17,749,471**
C0505 - Subdivision Rebuild	Project - Burningoak Cres	$ 2,490,588	$ 1,740,153	$ 2,490,588	$ -	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Beechhollow Section 3	$ 2,490,588	$ 391,145	$ 2,490,588	$ -	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Ellengale	$ 1,556,617	$ 1,298,282	$ 1,556,617	$ -	$ 2,059,941	$ 2,055,778	$ 1,541,834	$ 2,055,778
C0505 - Subdivision Rebuild	Project - Clarkson	$ 2,334,926	$ 1,758,602	$ 2,334,926	$ -	$ 2,059,941	$ 2,312,751	$ 2,055,778	$ 2,312,751
C0505 - Subdivision Rebuild	Project - Malton	$ 1,556,617	$ 1,463,191	$ 1,556,617	$ -	$ 2,317,434	$ 1,541,834	$ 2,055,778	$ 1,798,806
C0505 - Subdivision Rebuild	Project - Truscott Plaza Area	$ 1,816,053	$ 605,940	$ 1,816,053	$ -	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Maple Ridge	$ 1,556,617	$ 1,480,438	$ 1,556,617	$ -	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Gananoque - Section 1	$ -	$ -	$ -	$ 1,961,142	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Boughbeeches - Section 1	$ -	$ -	$ -	$ 1,238,616	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Copenhagen - Section 1	$ -	$ -	$ -	$ 2,374,014	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Appledore - Section 1	$ -	$ -	$ -	$ 1,238,616	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Credit Woodlands Crt/Wiltshire (design complete)	$ -	$ -	$ -	$ 1,548,270	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Glen Erin & Montevideo - Section 1	$ -	$ -	$ -	$ 1,961,142	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project -Tenth Line Main Feeder	$ -	$ -	$ -	$ 1,135,397	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Folkway & Erin Mills Main Feeder - L6259 to L6263	$ -	$ -	$ -	$ 1,032,180	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Glen Erin & Battleford	$ -	$ -	$ -	$ 2,064,360	$ -	$ 2,055,778	$ 1,798,806	$ 1,798,806
C0505 - Subdivision Rebuild	Project - City Centre Drive Cable Renewal	$ -	$ -	$ -	$ 1,548,270	$ -	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Baldwin Rd/ ROW	$ -	$ -	$ -	$ -	$ 1,544,956	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Golden Orchard/ Grassfire	$ -	$ -	$ -	$ -	$ 1,544,956	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Cedarglen Gate - Section 1	$ -	$ -	$ -	$ -	$ 2,059,941	$ 2,312,751	$ 2,055,778	$ 2,055,778
C0505 - Subdivision Rebuild	Project - Main Feeder renewal at Folkway Dr. from L6177 to L6405	$ -	$ -	$ -	$ -	$ 2,059,941	$ 2,312,751	$ -	$ -

Business Unit	Description	2017	Actual YTD Sep	2017 Q3 Forecast	2018	2019	2020	2021	2022
C0505 - Subdivision Rebuild	Project - Traders - Section 3	$ -	$ -	$ -	$ -	$ 2,059,941	$ 2,312,751	$ 2,312,751	$ 2,055,778
C0505 - Subdivision Rebuild	Project -Tamar & Copenhagen main feeder	$ -	$ -	$ -	$ -	$ 1,544,956	$ -	$ -	$ -
C0505 - Subdivision Rebuild	Project - Forestwood/Stainton	$ -	$ -	$ -	$ -	$ -	$ 2,055,778	$ 2,055,778	$ 2,055,778
C0505 - Subdivision Rebuild	Project - Tenth Line West main feeder	$ -	$ -	$ -	$ -	$ -	$ 1,541,834	$ -	$ -
C0505 - Subdivision Rebuild	Project - Paisley Blvd	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,312,751	$ 2,312,751
C0505 - Subdivision Rebuild	Project - Other Immaterial	$ -	$ 431,659	$ 47,080	$ -	$ -	$ -	$ 2,312,751	$ 2,055,778
C0505 - Subdivision Rebuild		**$ 13,802,006**	**$ 9,169,411**	**$ 13,849,086**	**$ 16,102,006**	**$ 17,252,006**	**$ 18,502,006**	**$ 18,502,006**	**$ 18,502,006**
C0561 - Overhead Rebuilds	Program - Equipment Replacement	$ 1,556,617	$ 1,108,176	$ 1,318,144	$ 1,545,617	$ 1,542,016	$ 1,542,016	$ 1,542,016	$ 1,540,939
C0561 - Overhead Rebuilds	Program - Pole Installations	$ 1,245,294	$ 2,224,883	$ 2,463,287	$ 1,236,494	$ 1,233,613	$ 1,233,613	$ 1,233,613	$ 1,232,750
C0561 - Overhead Rebuilds	Project - Etude/Justine	$ 1,120,764	$ 890,920	$ 900,000	$ -	$ -	$ -	$ -	$ -
C0561 - Overhead Rebuilds	Project - Credit Woodlands	$ 635,100	$ 25,786	$ 635,100	$ -	$ 2,405,545	$ -	$ -	$ -
C0561 - Overhead Rebuilds	Project - Capricorn/Michaud	$ 709,817	$ 427,305	$ 512,245	$ -	$ -	$ -	$ -	$ -
C0561 - Overhead Rebuilds	Project - Munden/Pear Tree	$ -	$ -	$ -	$ 741,896	$ -	$ -	$ -	$ -
C0561 - Overhead Rebuilds	Project - Holburne/Ogden	$ -	$ -	$ -	$ 1,020,107	$ -	$ -	$ -	$ -
C0561 - Overhead Rebuilds	Project - Lake/John	$ -	$ -	$ -	$ 927,370	$ -	$ -	$ -	$ -
C0561 - Overhead Rebuilds	Project - Church	$ -	$ -	$ -	$ 1,020,107	$ -	$ -	$ -	$ -
C0561 - Overhead Rebuilds	Project - Rometown	$ -	$ -	$ -	$ -	$ 1,850,419	$ 1,850,419	$ -	$ -
C0561 - Overhead Rebuilds	Project - Northmount/Alexandra/Meredeth	$ -	$ -	$ -	$ -	$ -	$ 1,665,377	$ -	$ -
C0561 - Overhead Rebuilds	Project - Greaves/East/Westmount	$ -	$ -	$ -	$ -	$ -	$ 740,168	$ -	$ -
C0561 - Overhead Rebuilds	Project - Cliff/Burslem	$ -	$ -	$ -	$ -	$ -	$ -	$ 832,689	$ -
C0561 - Overhead Rebuilds	Project - Redstone/Bonaventure	$ -	$ -	$ -	$ -	$ -	$ -	$ 925,210	$ -
C0561 - Overhead Rebuilds	Project - Other Renewal	$ -	$ -	$ -	$ -	$ -	$ -	$ 370,084	$ 1,849,126
C0561 - Overhead Rebuilds	Project - Donnelly/Glenburnie	$ -	$ -	$ -	$ -	$ -	$ -	$ 555,126	$ -
C0561 - Overhead Rebuilds	Project - Dejong/Wareham/Turney	$ -	$ -	$ -	$ -	$ -	$ -	$ 925,210	$ -
C0561 - Overhead Rebuilds	Project - Alexandra/Halliday	$ -	$ -	$ -	$ -	$ -	$ -	$ 647,647	$ -
C0561 - Overhead Rebuilds	Project - Blanefield	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 647,194
C0561 - Overhead Rebuilds	Project - Truscott	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 554,738
C0561 - Overhead Rebuilds	Project - Lornewood/Glenhill	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 647,194
C0561 - Overhead Rebuilds	Project - Stavebank/Kenolie	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 739,651
C0561 - Overhead Rebuilds		**$ 5,267,593**	**$ 4,677,070**	**$ 5,828,776**	**$ 6,491,593**	**$ 7,031,593**	**$ 7,031,593**	**$ 7,031,593**	**$ 7,211,592**
C0562 - Subtransmission Renewal	Project - North Sheridan Way	$ 933,970	$ 731,012	$ 933,970	$ -	$ -	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Project - Park – Section 1 - Ann to Stavebank [Formerly: Park – Hurontario to Ka	$ 996,235	$ -	$ 596,235	$ -	$ -	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Project - Summerville MS - Feeder Egress & rebuild	$ 1,400,955	$ 1,047,160	$ 1,300,955	$ -	$ -	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Other Non-Material Projects	$ 404,720	$ 165,498	$ 386,267	$ -	$ 938,823	$ -	$ -	$ 463,150
C0562 - Subtransmission Renewal	Project - Lakeshore to Cawthra	$ -	$ 510,431	$ 600,000	$ -	$ -	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Project - Courtney Park - Dixie To Ordan	$ -	$ -	$ -	$ 778,309	$ -	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Project - Stanfield - North Service to Queensway	$ -	$ -	$ -	$ 1,245,294	$ -	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Project - Hydro One ROW - Fieldgate/Audubon	$ -	$ -	$ -	$ 541,042	$ -	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Project - Southdown - ROW to Lakeshore	$ -	$ -	$ -	$ 1,171,237	$ -	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Project - Dixie - Londonderry to CN Tracks	$ -	$ -	$ -	$ -	$ 1,251,764	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Project - Shawson - Dixie to Luke	$ -	$ -	$ -	$ -	$ 1,095,294	$ -	$ -	$ -
C0562 - Subtransmission Renewal	Project - Dixie - Dundas to QEW	$ -	$ -	$ -	$ -	$ -	$ 1,561,764	$ -	$ -
C0562 - Subtransmission Renewal	Project - Stanfield - Queensway to Dundas - Section 2	$ -	$ -	$ -	$ -	$ -	$ 780,882	$ -	$ -
C0562 - Subtransmission Renewal	Project - Hydro One ROW - Cawthra to Stanfield	$ -	$ -	$ -	$ -	$ -	$ 1,093,235	$ -	$ -
C0562 - Subtransmission Renewal	Project - Hydro One ROW - Southdown to Lorne Park	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,085,228	$ -
C0562 - Subtransmission Renewal	Project - Hydro One ROW - Lorne Park to QEW	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,085,228	$ -
C0562 - Subtransmission Renewal	Project - Hydro One ROW - Hurontario to Cawthra	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,015,424	$ -
C0562 - Subtransmission Renewal	Project - Goreway - Derry to CP Rail	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 617,533
C0562 - Subtransmission Renewal	Project -Tomken - Britannia to Courtney Park	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,543,833
C0562 - Subtransmission Renewal	Project - Hydro One ROW - Erindale TS to Mavis	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,161,366
C0562 - Subtransmission Renewal		**$ 3,735,881**	**$ 2,454,101**	**$ 3,817,427**	**$ 3,735,881**	**$ 3,285,881**	**$ 3,435,881**	**$ 4,185,881**	**$ 4,785,881**
C0563 - U/G TX/Replace/Overhaul	Program - Underground Transformer and Equipment Renewal	$ 716,044	$ 688,579	$ 1,216,044	$ 716,044	$ 716,044	$ 716,044	$ 727,407	$ 890,047
C0563 - U/G TX/Replace/Overhaul	PCB & Leaking Transformer Replacement Project - Underground	$ 4,784,004	$ 4,089,924	$ 6,784,004	$ 4,784,004	$ 4,784,004	$ 4,784,004	$ 3,162,640	$ -
C0563 - U/G TX/Replace/Overhaul		**$ 5,500,048**	**$ 4,778,503**	**$ 8,000,048**	**$ 5,500,048**	**$ 5,500,048**	**$ 5,500,048**	**$ 3,890,047**	**$ 890,047**

Business Unit	Description	2017	Actual YTD Sep	2017 Q3 Forecast	2018	2019	2020	2021	2022
C0564 - O/H TX/Replace/Overhaul	Program - Overhead Transformer and Equipment Renewal	$ 415,098	$ 185,868	$ 415,098	$ 415,098	$ 415,098	$ 431,229	$ 442,382	$ 548,337
C0564 - O/H TX/Replace/Overhaul	PCB & Leaking Transformer Replacement Project - Overhead	$ 3,663,239	$ 650,071	$ 1,663,239	$ 3,663,239	$ 3,663,239	$ 1,617,108	$ 1,105,955	$ -
C0564 - O/H TX/Replace/Overhaul		**$ 4,078,337**	**$ 835,939**	**$ 2,078,337**	**$ 4,078,337**	**$ 4,078,337**	**$ 2,048,337**	**$ 1,548,337**	**$ 548,337**
C0565 - U/G Cable Replace	Program - Pad Mounted Switchgear Replacement	$ 1,686,335	$ 1,524,076	$ 1,686,335	$ 1,686,335	$ 1,686,335	$ 1,686,335	$ 1,686,335	$ 1,686,335
C0565 - U/G Cable Replace	Program - Primary Distribution Equipment Replacement	$ 498,118	$ 335,349	$ 498,118	$ 498,118	$ 498,118	$ 498,118	$ 498,118	$ 498,118
C0565 - U/G Cable Replace	Program - Underground Cable and Splice Replacement	$ 2,485,399	$ 2,430,469	$ 2,485,399	$ 2,485,399	$ 2,485,399	$ 2,485,399	$ 2,485,399	$ 2,485,399
C0565 - U/G Cable Replace		**$ 4,669,852**	**$ 4,289,894**	**$ 4,669,852**	**$ 4,669,852**	**$ 4,669,852**	**$ 4,669,852**	**$ 4,669,852**	**$ 4,669,852**
C0567 - Emergency Replacements	Program - Emergency Replacements	$ 332,078	$ 199,092	$ 332,079	$ 332,078	$ 332,078	$ 332,078	$ 332,078	$ 332,078
C0567 - Emergency Replacements		**$ 332,078**	**$ 199,092**	**$ 332,079**	**$ 332,078**	**$ 332,078**	**$ 332,078**	**$ 332,078**	**$ 332,078**
C0569 - Major Spares	Major Spares from Inventory	$ -	$ 349,321	$ -	$ -	$ -	$ -	$ -	$ -
C0569 - Major Spares		**$ -**	**$ 349,321**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
SYSTEM RENEWAL		**$ 37,385,794**	**$ 26,753,332**	**$ 38,575,605**	**$ 40,909,794**	**$ 42,149,795**	**$ 41,519,795**	**$ 40,159,794**	**$ 36,939,793**
C0504 - Substation Upgrade	Station Upgrades	$ 5,109,244	$ 3,905,724	$ 5,862,814	$ 5,176,186	$ 1,965,575	$ 5,324,164	$ 4,031,012	$ 3,459,471
C0504 - Substation Upgrade	Webb MS	$ -	$ -	$ -	$ -	$ 2,069,026	$ 2,377,782	$ -	$ -
C0504 - Substation Upgrade	York MS	$ 1,042,703	$ 14,800	$ 186,000	$ 2,225,760	$ -	$ -	$ -	$ -
C0504 - Substation Upgrade	Rockwood MS	$ -	$ -	$ -	$ -	$ 3,517,345	$ -	$ -	$ -
C0504 - Substation Upgrade	Mini Britannia	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,583,982	$ 2,581,695
C0504 - Substation Upgrade	Summerville MS	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,136,952	$ 1,920,781
C0504 - Substation Upgrade		**$ 6,151,947**	**$ 3,920,524**	**$ 6,048,814**	**$ 7,401,947**	**$ 7,551,946**	**$ 7,701,946**	**$ 7,751,946**	**$ 7,961,948**
C0507 - Subtransmission Expansion	Project Southdown – South of Royal Windsor	$ 1,763,198	$ 312,786	$ 1,721,455	$ -	$ -	$ -	$ -	$ -
C0507 - Subtransmission Expansion	Other Non-Material Projects	$ 985,316	$ 644,439	$ 1,048,473	$ 312,112	$ -	$ -	$ -	$ -
C0507 - Subtransmission Expansion	Project - Churchill Meadows Feeder Egress - TS to Winston Churchill	$ -	$ -	$ -	$ 1,040,375	$ -	$ -	$ -	$ -
C0507 - Subtransmission Expansion	Project - Derry – WCB to Argentia	$ -	$ -	$ -	$ 1,186,027	$ -	$ -	$ -	$ -
C0507 - Subtransmission Expansion	Project - Centreview - Mavis to Duke	$ -	$ -	$ -	$ -	$ 1,249,257	$ -	$ -	$ -
C0507 - Subtransmission Expansion	Project - Webb MS - Feeder Egress	$ -	$ -	$ -	$ -	$ 1,249,257	$ 1,249,257	$ -	$ -
C0507 - Subtransmission Expansion	Project - Derry - Airport to Goreway	$ -	$ -	$ -	$ -	$ -	$ 1,249,257	$ -	$ -
C0507 - Subtransmission Expansion	Project - Lakeshore - Clarkson to Bexhill	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,249,257	$ -
C0507 - Subtransmission Expansion	Project - Mini-Britannia TS Feeder Egress	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,249,257	$ 1,249,257
C0507 - Subtransmission Expansion	Project - Feeder Egress	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,249,257
C0507 - Subtransmission Expansion		**$ 2,748,514**	**$ 957,225**	**$ 2,769,928**	**$ 2,538,514**	**$ 2,498,514**	**$ 2,498,514**	**$ 2,498,514**	**$ 2,498,514**
C0576 - Auto Switches/SCADA	Program - U/G installation of SCADA/Automation switches	$ 622,647	$ 1,143,000	$ 1,265,877	$ 716,824	$ 819,962	$ 921,411	$ 1,025,617	$ 1,125,942
C0576 - Auto Switches/SCADA	Program - O/H installation of SCADA/Automation switches	$ 716,044	$ 96,540	$ 179,786	$ 808,987	$ 912,207	$ 1,013,552	$ 1,117,922	$ 1,228,300
C0576 - Auto Switches/SCADA	Program - RTU System Enhancements & Equipment Upgrades	$ 752,365	$ 1,023,460	$ 1,118,493	$ 1,085,477	$ 753,340	$ 967,481	$ 882,030	$ 946,815
C0576 - Auto Switches/SCADA	Program - SCADA Master Upgrade	$ 103,774	$ 62,110	$ 89,931	$ 102,403	$ 102,495	$ 102,379	$ 102,562	$ 102,358
C0576 - Auto Switches/SCADA	Project - WiMAX Wireless Network Project	$ 51,887	$ 89,394	$ 100,000	$ 768,026	$ 768,714	$ 511,895	$ 143,586	$ 143,302
C0576 - Auto Switches/SCADA		**$ 2,246,718**	**$ 2,414,504**	**$ 2,754,087**	**$ 3,481,717**	**$ 3,356,718**	**$ 3,516,718**	**$ 3,271,717**	**$ 3,546,717**
SYSTEM SERVICE		**$ 11,147,179**	**$ 7,292,253**	**$ 11,572,829**	**$ 13,422,178**	**$ 13,407,178**	**$ 13,717,178**	**$ 13,522,177**	**$ 14,007,179**
C0581 - Engineering & Asset Systems	Program - Hardware/Software Renewal	$ 345,000	$ 201,092	$ 345,001	$ 345,000	$ 315,000	$ 365,000	$ 315,000	$ 315,000
C0581 - Engineering & Asset Systems		**$ 345,000**	**$ 201,092**	**$ 345,001**	**$ 345,000**	**$ 315,000**	**$ 365,000**	**$ 315,000**	**$ 315,000**
C0584 - Rolling Stock	Program - Cars/Light Trucks/Vans	$ 907,000	$ -	$ 280,000	$ 1,290,000	$ 529,000	$ 571,000	$ 480,000	$ 952,000
C0584 - Rolling Stock	Program - Heavy Trucks/RBDs/Buckets	$ 1,350,000	$ -	$ 1,000,000	$ 1,180,000	$ 2,040,000	$ 1,180,000	$ 1,560,000	$ 500,000
C0584 - Rolling Stock	Program - Other/Trailers/Lifters	$ 170,000	$ 214,153	$ 220,000	$ 50,000	$ 227,000	$ 1,350,000	$ 387,862	$ 435,000
C0584 - Rolling Stock		**$ 2,427,000**	**$ 214,153**	**$ 1,500,000**	**$ 2,520,000**	**$ 2,796,000**	**$ 3,101,000**	**$ 2,427,862**	**$ 1,887,000**
C0585 - Computer Equip	Various Hardware Renewal/Upgrades	$ 341,000	$ (4,836)	$ 341,000	$ 572,000	$ 269,000	$ 580,000	$ 150,000	$ 607,000
C0585 - Computer Equip		**$ 341,000**	**$ (4,836)**	**$ 341,000**	**$ 572,000**	**$ 269,000**	**$ 580,000**	**$ 150,000**	**$ 607,000**
C0588 - ERP System	Program - Additional software licenses/Upgrades	$ 50,000	$ -	$ 50,000	$ 55,000	$ 55,000	$ 60,000	$ 60,000	$ 65,000
C0588 - ERP System		**$ 50,000**	**$ -**	**$ 50,000**	**$ 55,000**	**$ 55,000**	**$ 60,000**	**$ 60,000**	**$ 65,000**
C0589 - Meter to Cash	Other Non-Material Projects	$ 580,000	$ 110,528	$ 580,000	$ 580,000	$ 620,000	$ 530,000	$ 550,000	$ 500,000
C0589 - Meter to Cash		**$ 580,000**	**$ 110,528**	**$ 580,000**	**$ 580,000**	**$ 620,000**	**$ 530,000**	**$ 550,000**	**$ 500,000**
C0591 - Grounds & Building	Project - Mavis building envelope	$ 650,000	$ -	$ -	$ 600,000	$ -	$ -	$ -	$ -
C0591 - Grounds & Building	Project - Mavis Building Generator replacement	$ -	$ -	$ -	$ -	$ -	$ 950,000	$ -	$ -
C0591 - Grounds & Building	Program - Building Upgrades - Mavis	$ 760,000	$ 429,952	$ 665,000	$ -	$ 1,200,000	$ 250,000	$ 1,200,000	$ 400,000
C0591 - Grounds & Building	Program - Building Upgrades - Derry	$ 245,000	$ 75,550	$ 500,240	$ 275,000	$ 600,000	$ 1,050,000	$ 675,000	$ 700,000
C0591 - Grounds & Building	Project - Derry HVAC Upgrades	$ 550,000	$ 506,091	$ 550,000	$ 500,000	$ -	$ -	$ -	$ -
C0591 - Grounds & Building	Project - Derry Windows	$ -	$ -	$ -	$ -	$ 725,000	$ -	$ -	$ -
C0591 - Grounds & Building	Project - Derry Renovations	$ -	$ -	$ 1,364,763	$ -	$ -	$ -	$ -	$ -
C0591 - Grounds & Building	Other Non-Material Projects	$ 650,000	$ 66,215	$ -	$ 1,025,000	$ 800,000	$ 1,325,000	$ 1,175,000	$ 1,195,000
C0591 - Grounds & Building		**$ 2,855,000**	**$ 1,077,808**	**$ 3,080,003**	**$ 2,400,000**	**$ 3,325,000**	**$ 3,575,000**	**$ 3,050,000**	**$ 2,295,000**
C0595 - Major Tools Constr	Major Tools	$ 200,000	$ 89,006	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000
C0595 - Major Tools Constr		**$ 200,000**	**$ 89,006**	**$ 200,000**	**$ 200,000**	**$ 200,000**	**$ 200,000**	**$ 200,000**	**$ 200,000**
GENERAL PLANT		**$ 6,798,000**	**$ 1,687,750**	**$ 6,096,004**	**$ 6,672,000**	**$ 7,580,000**	**$ 8,411,000**	**$ 6,752,862**	**$ 5,869,000**
GROSS CAPITAL EXPENDITURES		**$ 68,551,018**	**$ 44,317,605**	**$ 67,582,501**	**$ 79,840,743**	**$ 85,411,443**	**$ 85,997,444**	**$ 81,664,304**	**$ 74,565,443**

Business Unit	Description	2017	Actual YTD Sep	2017 Q3 Forecast	2018	2019	2020	2021	2022
C0531C - CIAC - Roads		$ (534,215)	$ (70,207)	$ (72,500)	$ (1,086,215)	$ (906,215)	$ (966,215)	$ (906,215)	$ (666,215)
C0532C - CIAC - LRT		$ -	$ -	$ -	$ (1,500,000)	$ (3,000,000)	$ (3,000,000)	$ (3,000,000)	$ (1,700,000)
C0541C - CIAC - New Subdivisions (OTC)		$ (1,171,524)	$ (485,207)	$ (500,000)	$ (1,171,524)	$ (1,171,524)	$ (1,171,524)	$ (1,171,524)	$ (1,171,524)
C0542C - CIAC Ind/Comm Services		$ (3,045,963)	$ (2,545,892)	$ (3,045,963)	$ (3,045,963)	$ (3,045,963)	$ (3,045,963)	$ (3,045,963)	$ (3,045,963)
C0544C - CIAC Residential Service Upgrades		$ (354,269)	$ (291,360)	$ (354,269)	$ (354,269)	$ (354,269)	$ (354,269)	$ (354,269)	$ (354,269)
C0900C - CIAC -Green Energy-FIT/MicrFIT		$ -	$ (11,000)	$ -	$ -	$ -	$ -	$ -	$ -
CUSTOMER CONTRIBUTIONS		**$ (5,105,971)**	**$ (3,403,665)**	**$ (3,972,732)**	**$ (7,157,971)**	**$ (8,477,971)**	**$ (8,537,971)**	**$ (8,477,971)**	**$ (6,937,971)**
NET CAPITAL EXPENDITURES FOR DSP (EXCLUDING ALLOCATED SYNERGIES)		**$ 63,445,047**	**$ 40,913,940**	**$ 63,609,769**	**$ 72,682,772**	**$ 76,933,472**	**$ 77,459,473**	**$ 73,186,333**	**$ 67,627,472**

JT.2.20

a) To provide the spreadsheet in 2-AMPCO-17 in Excel format.

Response:

a) Alectra Utilities provides table from ERZ-AMPCO-17 in excel format in attachment JT2.20_Attach_ERZ-AMPCO-17-Appendix D.

	Asset	Population	Failure Rate 2011	Failure Rate 2012	Failure Rate 2013	Failure Rate 2014	Failure Rate 2015	Failure Rate 2016	Failure Rate 2017	Replacement Rate 2011	Replacement Rate 2012	Replacement Rate 2013	Replacement Rate 2014	Replacement Rate 2015	Replacement Rate 2016	Replacement Rate 2017	Replacement Rate 2018
1	**Substation Transformers**	120	1	0	0	0	0	0	0	3	3	3	0	2	3	2	
3	**Circuit Breakers**	432	0	3	2	2	0	0	0	26	12	18	8	30	17	15	
4	**Pole Mounted Transformers**	5353									42	172	221	472	451	159	
5	**Pad Mounted Transformers**	16121	38	67	89	64	65	59	39		90	311	308	572	530	298	
7	**Vault Transformers**	3854									12	45	200	138	253	112	
8	**Pad Mounted Switchgear**	834	13	5	10	23	30	7	1		17	48	40	49	60	47	
9	**Overhead Switches**	2653	7	9	8	7	8	5	7		7	9	14	19	34	23	
13	**UG Cables Main Feeder in Conductor-Km**	2238	193	139	133	112	176	223	131		26	45	31	14	23	17	
14	**UG Cables Distribution in Conductor-Km**	4076									28	37	39	41	41	20	
15	**Poles Wood**	12436	14	19	12	11	22	6	5		11	304	212	330	444	528	
16	**Poles Concrete**	9488									6	109	39	151	135	76	

Note: Failure data based on asset failures resulting in customer outages
Transformer failure events not differentiated by type
cable faults

NOTE:
Population counts (column C) are based on Figure 18 of the DSP

Replacement information is coming from our GIS system, based on available "removed date" information. The accuracy of this field has been increasing as we've have been utilizing improved tools and workflows to more accurately and quickly update information

Main Feeder is defined as any primary cable with cable size other than: #1, #2, #4, #6, 1/0, 2/0, 3/0, 4/0

Distribution is defined as any primary cable with cable size indicated as: #1, #2, #4, #6, 1/0, 2/0, 3/0, 4/0

We do not have good tracking of failure rates for these assets. The information could be derived from our OMS system, but would require a labour intensive effort of reading through various comment fields.

JT.2.21

a) To provide the change in Health Index for underground cables.

Response:

a) The year over year change in Health Index for underground cables was not included in the 2015 Asset Condition Assessment for Enersource, due to the change in condition parameter criteria methodology for these assets relative to the 2014 Asset Condition Assessment. In 2015, Kinectrics revised the condition parameter criteria methodology for the calculation of the health index for non-tree retardent ("Non-TR") direct buried main feeder and distribution cable health index calculations. As a result, the upper and lower values of useful lives of Non-TR direct buried XLPE cables in the 2015 Asset Condition Assessment were increased from 20 to 25 years and 35 years to 40 years, respectively. The impact of this change is that the average health index of the feeder and distribution cables improved from 2014 to 2015. Table 1 provides the comparison of both underground cables main feeder and distribution cables Health Index in 2015, relative to 2014.

Table 1 – 2015 Health Index for Underground Cables Relative to 2014 Health Index[1] in ERZ.

Asset	Year	Very Poor		Poor		Fair		Good		Very Good		Average Health Index	
		%	Change	%	Change	%	Change	%	Change	%	Change	%	Change
Underground Cables Main Feeder	2014	11.5%	-2%	8.9%	-7%	0.0%	6%	6.6%	6%	72.9%	-3%	77.8%	5%
	2015	9.9%		1.6%		6.0%		12.3%		70.3%		82.3%	
Underground Cables Distribution	2014	21.3%	-5%	12.9%	-9%	0.0%	10%	6.1%	6%	59.7%	-3%	69.7%	6%
	2015	16.7%		4.2%		9.9%		12.2%		57.0%		75.3%	

[1] In 2015, Kinectrics revised the condition criteria methodology for the calculation of the Health Index for underground cables in ERZ.

JT.2.22

a) To provide the scorings for these elements for your ICM projects.

Response:

a) Scoring for proposed ICM projects in the Enersource Rate Zone is provided in attachment JT2.22_Attach_ERZ Scoring for ICM Projects.

Project Name	Business Case #	Mandatory	Customer Focus			Operational Effectiveness					Financial Performance			Scores			
			Service Quality (20%)	Customer Satisfaction (60%)	Reputational Risk (20%)	Safety (25%)	Environmental Impact/Risk (15%)	System Reliability (20%)	System Expansion (20%)	System Renewal (20%)	Cost Efficiences (50%)	One-Time Costs	Ongoing Costs (50%)	Customer Focus (30%)	Operational Effectiveness (50%)	Financial Performance (20%)	Total Score
PCB & Leaking Transformer Replacement Project – Underground & Overhead	2018-C0563-2	Yes	0	3	5	0	5	0	0	8	0	$8,447,243	0	2.80	2.35	0.00	100.00
QEW - Evans To Cawthra	2018-C0531-1	Yes	3	3	5	0	0	0	0	0	0	$1,617,775	0	3.40	0.00	0.00	100.00
York MS	2018-C0504-1	No	0	8	5	0	8	10	8	5	0	$3,232,029	-5	5.80	5.80	0.00	20.19
Glen Erin & Battleford	2018-C0505-5	No	0	3	3	3	0	10	5	10	10	$2,064,360	0	2.40	5.75	5.00	12.77
Glen Erin & Montevideo - Section 1	2018-C0505-1	No	0	3	5	3	0	10	5	10	10	$1,961,142	0	2.80	5.75	5.00	12.45
Credit Woodlands Crt/Wiltshire (design complete)	2018-C0505-2	No	0	3	5	3	5	3	5	10	10	$1,548,270	0	2.80	5.10	5.00	9.15
City Centre Drive Cables	2018-C0505-6	No	0	5	5	0	0	5	5	10	10	$1,548,270	0	4.00	4.00	5.00	8.76
Tenth Line Main Feeder	2018-C0505-3	No	0	3	3	3	10	10	5	10	10	$1,135,398	0	2.40	7.25	5.00	8.17
Folkway & Erin Mills Main Feeder	2018-C0505-4	No	0	3	5	3	0	10	5	10	10	$1,032,180	0	2.80	5.75	5.00	6.55
Church	2018-C0561-2	No	0	3	0	10	5	8	0	8	5	$1,020,107	0	1.80	6.45	2.50	5.86
Lake/John	2018-C0561-1	No	0	3	5	10	5	8	0	8	5	$ 927,370	0	2.80	6.45	2.50	5.70

JT.2.23

a) To file the comments received from three out of seven large users.

Response:

a) All seven of the Large Use customers in the Enersource RZ who participated in the customer engagement were invited to provide open-ended feedback at the end of the online survey. 3/7 Large Use customer elected to provide additional feedback, those responses are reproduced verbatim below.

Question: Before this survey concludes, do you have any additional comments or feedback you'd like to share with Alectra Utilities? Note: all feedback is anonymous and you will not be identified to Alectra Utilities without your expressed permission.

Large Use Response #1: *"This survey was a good initiative. Ontario is a very challenging market for high energy users. There needs to be changes made to improve the competitive balance for manufacturing organizations here versus competitors in Quebec and the Northeastern USA"*

Large Use Response #2: *"Provide system reliability is the utilities' responsibility and will help keep the business in Ontario."*

Large Use Response #3: *"Power quality has been deteriorating and if Alectra could provide assistance to improve/reduce our facilities voltage swings and power outages"*

JT.2.24

a) To provide the reference of where the definition of end of life is in the DSP; to provide the definition of end of life for PowerStream.

Response:

a) For the Enersource rate zone, the definition of end of life is provided at the top of page 297 in section 3.2.3 Prioritized and Pacing of Investments of the Alectra Utilities (Enersource rate zone) Distribution System Plan (Attachment 50).

For the PowerStream rate zone, the criteria definition for asset end-of-life was provided to several sections in the PowerStream DSP (EB-2015-003, Exhibit G, Tab 2), as follows:

- The end of life definition for obsolescence and loss of functionality criteria has been identified in section 5.3.3 Asset Lifecycle Optimization Policies and Procedures on page 11
- The end of life definition for failure with increasing frequency criteria has been referred in section 5.4.5 Justifying Captial Expenditures on page 9 of 36
- The end of life definition for condition has deteriorated to the point that there is high probability of failure criteria has been referred in section 5.4.5 Justifying Capital Expenditures on page 16
- The end of life definition for decreasing reliability, availability, maintainability criteria has been referred in section section 5.4.5 Justifying Capital Expenditures on page 14 of 36
- The end of life definition for loss of functionality and failure to meet reliability requirements criteria has been referred in page 21 of 36

JT.2.25

a) To reconcile the able at Table i in G-AMPCO-5 with the tables at for example Table 6, Brampton Rate Zone, Exhibit 2, Tab 2, Schedule 10, Page 2, and explain the difference for each year in capital expenditure, or forecast capital expenditure and the in-service amounts.

Response:

a) Alectra Utilities provides the status update of the 2016 ICM projects from Enersource's IRM/ ICM application (EB-2015-0065).

Table 1 – Comparison of capital expenditures and additions

PowerStream Rate Zone	2013 ($000)	2014 ($000)	2015 ($000)	2016 ($000)
Actual CAPEX	$93,657	$109,509	$118,251	$101,162
Actual Additions	$92,675	$112,520	$116,635	$104,406
Variance	**$982**	**($3,011)**	**$1,617**	**($3,244)**
Variance Explanation:				
Contributed Capital Reporting methodology	$3,089	($339)	$3,320	($1,112)
Regulatory Assets	($493)	($806)	$0	$321
Spare Parts	($649)	($1,121)	($1,571)	($443)
IT Merger related	$0	$0	$0	($1,186)
Other	($965)	($745)	($132)	($823)
Total Variance	**$982**	**($3,011)**	**$1,616**	**($3,244)**

Enersource Rate Zone	2013 ($000)	2014 ($000)	2015 ($000)	2016 ($000)
Actual CAPEX	$42,541	$54,051	$116,047	$64,075
Actual Additions	$42,920	$54,398	$115,423	$64,357
Variance	**($379)**	**($348)**	**$624**	**($282)**
Variance Explanation:				
Borrowing Costs per IR document	($379)	($348)	($410)	($415)
Smart Meter Large Users	$0	$0	$832	$764
Green Energy - FIT/Micro	$0	$0	$310	$0
	$0	$0	$0	$0
IT Merger related - was there "pre-merger" costs	$0	$0	$0	($323)
Other	$0	$0	($108)	($308)
Total Variance	**($379)**	**($348)**	**$624**	**($281)**

Brampton Rate Zone	2013 ($000)	2014 ($000)	2015 ($000)	2016 ($000)
Actual CAPEX	$30,073	$31,885	$42,572	$30,757
Actual Additions	$27,264	$28,593	$33,084	$17,456
Variance	**$2,809**	**$3,292**	**$9,488**	**$13,301**
Variance Explanation:				
Contributed Capital	$0	$0	$0	$13,186
CCRA Payment to HO (not included in additions)	$0	$0	$7,705	$0
Intangibles (not included in additions)	$231	$229	$541	$353
Change in CIP	$2,327	$3,095	$1,555	$0
Other	$251	($32)	($313)	($238)
Total Variance	**$2,809**	**$3,292**	**$9,488**	**$13,301**

JT.2.26

a) To reconcile the amounts for projects in the ICM application, as set out in Board Staff-3.

Response:

a) Please refer to response JT 1.10.

JT.2.27

a) To provide, of the projects that were proposed in the last Enersource case, a status on those projects.

Response:

a) Alectra Utilities provides the status update of the 2016 ICM projects from EB-2015-0065 for the Enersource rate zone.

Table 1 – Status of Proposed 2016 ICM Projects for ERZ

Project	Status
Mini Orlando MS	Completed (2016)
Webb MS	Deferred to 2019/2020
Mini Britannia	Deferred to 2021/2022
Duke MS	Deferred beyond 2022
Ellengale - Ibbetson Cres/ Shamir	Completed (2016)
Rockwood - Fieldgate/ Maple Ridge	Completed (2017)
Clarkson - Bromsgrove/ Cramer/Sherhill	Completed (2016)
Vermouth/Breckonridge	Completed (2016)
Holburne - Section 1 & 2	Rescoped and scheduled for 2018.
Meadow Wood/Country Club	Completed (2016)
Bloor - Cawthra to Tomken	Completed (2016)
Lakeshore - Seneca to Cawthra	Completed (2017)
Park - Hurontario to Kane	Under Construction (2017)
Queen - Briarwood to Seneca	Completed (2016)
Goreway - Derry to City Limits	Completed (2017)
Stavebank MS - Feeder Egress	Completed (2017)
UG Transformer and Equip Renewal	2016 Scope Completed
OH Transformer and Equip Renewal	2016 Scope Completed
TCP/IP GSP Conversion & Reseal	Completed (2016)
Tomken Upgrade	Completed (2017)
InService Upgrade	Transitional Cost
G/Technology Upgrade	Transitional Cost
SmartPlant Foundation Upgrade	Transitional Cost
Monthly billing	Transitional Cost
Biztalk Upgrade	Completed (2016)

JT.2.28

a) To provide the year-to-date budget versus actual for the PowerStream 2017 projects.

Response:

a) Alectra Utilities has provided a year-to-date expenditure update along with year-end forecast from Q3 for the material projects in the PowerStream rate zone in attachment JT2.28_Attach_PSRZ Updated Material Project Listing 2017.

Material Project List 2017 - PowerStream Rate Zone

in '000s

Major Category	Project Name	2017	Sept YTD 2017	Forecast Q3 2017
System Access	New Commercial Subdivision Development - SOUTH	1,000	- 62	1,000
	New Residential Subdivision Development - NORTH	2,233	2,100	3,456
	New Residential Subdivision Development - SOUTH	7,106	2,977	7,106
	New Subdivision Development - Secondary Service Lateral - SOUTH	1,740	1,060	1,740
	Road Authority Expenditure PS North	1,340	2,287	1,917
	Road Authority Expenditure PS South	2,110	3,574	3,018
	Road Authority YRRT Yonge St	9,620	14,912	13,761
		25,149	**26,848**	**31,999**
	Other	6,875	973	5,561
System Access Total		**32,024**	**27,821**	**37,560**
System Renewal	4-Circuit Pole Storm Hardening	1,701	1,121	1,597
	Cable Replacement – (V38) - Rutherford and Weston	3,408	2,112	3,332
	Cable Replacement - Left Behind Cable	2,122	1,178	1,578
	Concord MS Conversion to 27.6 kV - Phase 4	1,081	1,068	1,153
	Pad Mount Transformer Replacement	1,038	438	1,038
	Planned Circuit Breaker Replacement - Richmond Hill TS#1	1,155	272	1,155
	Pole Replacement Program	4,191	2,573	3,729
	Rear Lot Supply Remediation - North Park/Parkdale	1,544	1,034	1,358
	Rear Lot Supply Remediation - Royal Orchard - Baythorn	2,150	19	2,027
	Storm damage - Replacement of distribution equipment due to storm.	1,050	228	800
	Switchgear Replacement Program	1,881	1,592	1,823
	Switchgears - Unscheduled Replacement of Failed (end of useful Life) Distribution Equipment	1,811	1,908	2,400
	Unforeseen Projects Initiated by PowerStream	1,106	172	806
	Unscheduled Replacement of Failed Equipment - Poles, etc	5,260	4,240	5,260
		29,499	**17,954**	**28,055**
	Other	12,349	8,159	11,428
System Renewal Total		**41,848**	**26,113**	**39,483**
System Service	2x44kV circuits (23M22 & 23M27) from Midhurst TS2 to Essa Rd/Mapleview Dr	4,193	2,983	5,476
	Build double ccts 27.6kV pole line on 19th Ave between Leslie St and Bayview Ave	1,192	-	-
	Distribution Automation Switches / Reclosers	1,575	1,261	1,535
	New 44 kV Feeder (13M7) Barrie TS X Huronia & Big Bay Pt. Rd	2,452	3,024	3,127
	New MS, Livingstone MS - Barrie	3,630	2,532	3,630
	Rebuild 27.6 kV pole line into 4 Ccts on Warden Ave from Hwy 7 to 16th Ave	1,006	881	984
	Rebuild Pole Line on 14th Ave into 4 cct -From Warden Ave to Kennedy Rc	1,175	973	1,273
	Vaughan TS #4 - Build Station	4,858	2,024	4,858
	Vaughan TS#4 Feeder Integration - Part 1	2,809	1,919	2,439
	Smart Grid	1,070	- 257	1,070
		23,961	**15,340**	**24,392**
	Other	7,024	4,965	7,879
System Service Total		**30,986**	**20,304**	**32,271**
General Plant	Interest Capitalization	1,040	1,812	1,877
	Fleet	1,510	-	585
	Customer Information Systems	7,498	703	7,498
		10,048	**2,515**	**9,960**
	Other	7,451	2,628	7,056
General Plant Total		**17,500**	**5,144**	**17,016**
Grand Total		**122,357**	**79,382**	**126,330**

JT.2.29

a) To advise the Fair Hydro Plan impact on total customer count.

Response:

a) The number of regulated price plan ("RPP") customers impacted by the Fair Hydro Plan is 980,869 across all four Alectra Utilities' rate zones, as at November 30, 2017. This includes non-RPP customers eligible for the GA Modifier.

JT2.30

To advise whether for a residential customer the bill impact of the application will be zero

Response:

Alectra Utlities has assessed the impact of the Fair Hydro Plan adjustment on the total bill impact presented in the application, by comparing a bill impact with Time of Use prices reflecting the Fair Hydro Plan, to a bill impact with Time of Use prices without the Fair Hydro Plan impact. Please see JT2.30_Attach 1_Fair Hydro Plan bill impact analysis. A summary of the analysis is provided in Table 1 below.

Table 1 – Impact of Fair Hydro Plan adjustment on a Residential Bill

Rate Zone	With Fair Hydro Plan Reductions		Without Fair Hydro Plan Reductions	
Brampton RZ	$ 2.07	1.98%	$ 2.23	1.54%
Enersource RZ	$ 1.00	0.93%	$ 1.07	0.73%
Horizon Utilities RZ	$ (0.27)	-0.25%	$ (0.29)	-0.19%
PowerStream RZ	$ (2.39)	-2.14%	$ (2.57)	-1.69%

Customer Class:	**RESIDENTIAL SERVICE CLASSIFICATION**
RPP / Non-RPP:	**RPP** — **Class B**
Consumption	**750** kWh
Demand	**-** kW
Current Loss Factor	**1.0369**
Proposed/Approved Loss Factor	**1.0369**

ALECTRA - POWERSTREAM RATE ZONE

With Fair Hydro Act, 2017 Reductions (RATE APPLICATION)

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 18.51	1	$ 18.51	$ 21.63	1	$ 21.63	$ 3.12	16.86%
Distribution Volumetric Rate	$ 0.0130	750	$ 9.75	$ 0.0088	750	$ 6.60	$ (3.15)	-32.31%
Fixed Rate Riders	$ -	1	$ -	$ 0.25	1	$ 0.25	$ 0.25	
Volumetric Rate Riders	$ -	750	$ -	$ -	750	$ -	$ -	
Sub-Total A (excluding pass through)			$ 28.26			$ 28.48	$ 0.22	0.78%
Line Losses on Cost of Power	$ 0.0822	28	$ 2.27	$ 0.0822	28	$ 2.27	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ -	750	$ -	-$ 0.0026	750	$ (1.95)	$ (1.95)	
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.97	1	$ 0.97	$ 0.97	1	$ 0.97	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			$ 31.88			$ 30.15	$ (1.73)	-5.43%
RTSR - Network	$ 0.0082	778	$ 6.38	$ 0.0076	778	$ 5.91	$ (0.47)	-7.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0038	778	$ 2.96	$ 0.0037	778	$ 2.88	$ (0.08)	-2.63%
Sub-Total C - Delivery (including Sub-Total B)			$ 41.21			$ 38.94	$ (2.27)	-5.52%
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ -	-		$ -	-			
OESP	$ -	-		$ -	-		$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0950	128	$ 12.11	$ 0.0950	128	$ 12.11	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Total Bill on TOU (before Taxes)			$ 106.11			$ 103.84	$ (2.27)	-2.14%
HST	13%		$ 13.79	13%		$ 13.50	$ (0.30)	-2.14%
Total Bill on TOU (before 8% Provincial Rebate)			$ 119.91			$ 117.34	$ (2.57)	-2.14%
8% Provincial Rebate	-8%		$ (8.49)	-8%		$ (8.31)	$ 0.18	-2.14%
Total Bill on TOU			$ 111.42			$ 109.03	$ (2.39)	-2.14%

Without any Fair Hydro Act, 2017 Reductions

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 18.51	1	$ 18.51	$ 21.63	1	$ 21.63	$ 3.12	16.86%
Distribution Volumetric Rate	$ 0.0130	750	$ 9.75	$ 0.0088	750	$ 6.60	$ (3.15)	-32.31%
Fixed Rate Riders	$ -	1	$ -	$ 0.25	1	$ 0.25	$ 0.25	
Volumetric Rate Riders	$ -	750	$ -	$ -	750	$ -	$ -	
Sub-Total A (excluding pass through)			$ 28.26			$ 28.48	$ 0.22	0.78%
Line Losses on Cost of Power	$ 0.1151	28	$ 3.18	$ 0.1151	28	$ 3.18	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ -	750	$ -	-$ 0.0026	750	$ (1.95)	$ (1.95)	
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.97	1	$ 0.97	$ 0.97	1	$ 0.97	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			$ 32.79			$ 31.06	$ (1.73)	-5.28%
RTSR - Network	$ 0.0082	778	$ 6.38	$ 0.0076	778	$ 5.91	$ (0.47)	-7.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0038	778	$ 2.96	$ 0.0037	778	$ 2.88	$ (0.08)	-2.63%
Sub-Total C - Delivery (including Sub-Total B)			$ 42.12			$ 39.85	$ (2.27)	-5.40%
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0021	778	$ 1.63	$ 0.0021	778	$ 1.63	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0007	750	$ 0.53	$ 0.0007	750	$ 0.53		
OESP	$ 0.0011	778	$ 0.86	$ 0.0011	778	$ 0.86	$ -	0.00%
TOU - Off Peak	$ 0.0910	488	$ 44.36	$ 0.0910	488	$ 44.36	$ -	0.00%
TOU - Mid Peak	$ 0.1330	128	$ 16.96	$ 0.1330	128	$ 16.96	$ -	0.00%
TOU - On Peak	$ 0.1850	135	$ 24.98	$ 0.1850	135	$ 24.98	$ -	0.00%
Total Bill on TOU (before Taxes)			$ 134.48			$ 132.21	$ (2.27)	-1.69%
HST	13%		$ 17.48	13%		$ 17.19	$ (0.30)	-1.69%
Total Bill on TOU (before 8% Provincial Rebate)			$ 151.96			$ 149.39	$ (2.57)	-1.69%
8% Provincial Rebate			$ -	0%		$ -	$ -	
Total Bill on TOU			$ 151.96			$ 149.39	$ (2.57)	-1.69%

Fair Hydro Act, 2017 Impact								
Current - W/O FHA, 2017			Proposed			Impact	
Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
$ 18.51	1	$ 18.51	$ 21.63	1	$ 21.63	$ 3.12	16.86%
$ 0.0130	750	$ 9.75	$ 0.0088	750	$ 6.60	$ (3.15)	-32.31%
$ -	1	$ -	$ 0.25	1	$ 0.25	$ 0.25	
$ -	750	$ -	$ -	750	$ -	$ -	
		$ 28.26			$ 28.48	**$ 0.22**	**0.78%**
$ 0.1151	28	$ 3.18	$ 0.0822	28	$ 2.27	$ (0.91)	-28.59%
$ -	750	$ -	-$ 0.0026	750	$ (1.95)	$ (1.95)	
$ -	-		$ -	-			
$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
$ 0.97	1	$ 0.97	$ 0.97	1	$ 0.97	$ -	0.00%
		$ 32.79			**$ 30.15**	**$ (2.64)**	**-8.05%**
$ 0.0082	778	$ 6.38	$ 0.0076	778	$ 5.91	$ (0.47)	-7.32%
$ 0.0038	778	$ 2.96	$ 0.0037	778	$ 2.88	$ (0.08)	-2.63%
		$ 42.12			**$ 38.94**	**$ (3.18)**	**-7.56%**
$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
$ 0.0021	778	$ 1.63	$ 0.0003	778	$ 0.23	$ (1.40)	-85.71%
$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
$ 0.0007	750	$ 0.53	$ -	750	$ -		
$ 0.0011	778	$ 0.86	$ -	778	$ -	$ (0.86)	-100.00%
$ 0.0910	488	$ 44.36	$ 0.0650	488	$ 31.69	$ (12.68)	-28.57%
$ 0.1330	128	$ 16.96	$ 0.0950	128	$ 12.11	$ (4.85)	-28.57%
$ 0.1850	135	$ 24.98	$ 0.1320	135	$ 17.82	$ (7.16)	-28.65%
		$ 134.48			**$ 103.84**	**$ (30.64)**	**-22.78%**
13%		$ 17.48	13%		$ 13.50	$ (3.98)	-22.78%
		$ 151.96			**$ 117.34**	**$ (34.62)**	-22.78%
		$ -	-8%		$ (8.31)	$ (8.31)	
		$ 151.96			**$ 109.03**	**$ (42.93)**	**-28.25%**

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION		
RPP / Non-RPP:	RPP	Class B	
Consumption	750	kWh	
Demand	-	kW	
Current Loss Factor	1.0360		
Proposed/Approved Loss Factor	1.0360		

ALECTRA - ENERSOURCE RATE ZONE

With Fair Hydro Act, 2017 Reductions (RATE APPLICATION)

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 19.11	1	$ 19.11	$ 21.61	1	$ 21.61	$ 2.50	13.08%
Distribution Volumetric Rate	$ 0.0069	750	$ 5.18	$ 0.0035	750	$ 2.63	$ (2.55)	-49.28%
Fixed Rate Riders	$ 0.60	1	$ 0.60	$ 0.96	1	$ 0.96	$ 0.36	60.00%
Volumetric Rate Riders	$ -	750	$ -	-$ 0.0002	750	$ (0.15)	$ (0.15)	
Sub-Total A (excluding pass through)			$ 24.89			$ 25.05	**$ 0.16**	**0.64%**
Line Losses on Cost of Power	$ 0.0822	27	$ 2.22	$ 0.0822	27	$ 2.22	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0017	750	$ (1.28)	-$ 0.0008	750	$ (0.56)	$ 0.71	-55.88%
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ 0.0002	750	$ 0.15	$ 0.0002	750	$ 0.15	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 26.77**			**$ 27.64**	**$ 0.87**	**3.26%**
RTSR - Network	$ 0.0076	777	$ 5.91	$ 0.0077	777	$ 5.98	$ 0.08	1.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0063	777	$ 4.90	$ 0.0063	777	$ 4.90	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 37.57**			**$ 38.52**	**$ 0.95**	**2.53%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	777	$ 2.80	$ 0.0036	777	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	777	$ 0.23	$ 0.0003	777	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ -	-		$ -	-			
OESP	$ -	-		$ -	-		$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0950	128	$ 12.11	$ 0.0950	128	$ 12.11	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 102.47**			**$ 103.42**	**$ 0.95**	**0.93%**
HST	13%		$ 13.32	13%		$ 13.44	$ 0.12	0.93%
Total Bill on TOU (before 8% Provincial Rebate)			**$ 115.79**			**$ 116.86**	**$ 1.07**	**0.93%**
8% Provincial Rebate	-8%		$ (8.20)	-8%		$ (8.27)	$ (0.08)	0.93%
Total Bill on TOU			**$ 107.59**			**$ 108.59**	**$ 1.00**	**0.93%**

Without any Fair Hydro Act, 2017 Reductions

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 19.11	1	$ 19.11	$ 21.61	1	$ 21.61	$ 2.50	13.08%
Distribution Volumetric Rate	$ 0.0069	750	$ 5.18	$ 0.0035	750	$ 2.63	$ (2.55)	-49.28%
Fixed Rate Riders	$ 0.60	1	$ 0.60	$ 0.96	1	$ 0.96	$ 0.36	60.00%
Volumetric Rate Riders	$ -	750	$ -	-$ 0.0002	750	$ (0.15)	$ (0.15)	
Sub-Total A (excluding pass through)			$ 24.89			$ 25.05	**$ 0.16**	**0.64%**
Line Losses on Cost of Power	$ 0.1151	27	$ 3.11	$ 0.1151	27	$ 3.11	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0017	750	$ (1.28)	-$ 0.0008	750	$ (0.56)	$ 0.71	-55.88%
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ 0.0002	750	$ 0.15	$ 0.0002	750	$ 0.15	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 27.66**			**$ 28.53**	**$ 0.87**	**3.15%**
RTSR - Network	$ 0.0076	777	$ 5.91	$ 0.0077	777	$ 5.98	$ 0.08	1.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0063	777	$ 4.90	$ 0.0063	777	$ 4.90	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 38.46**			**$ 39.41**	**$ 0.95**	**2.47%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	777	$ 2.80	$ 0.0036	777	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0021	777	$ 1.63	$ 0.0021	777	$ 1.63	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0007	777	$ 0.54	$ 0.0007	777	$ 0.54		
OESP	$ 0.0011	750	$ 0.83	$ 0.0011	750	$ 0.83	$ -	0.00%
TOU - Off Peak	$ 0.0910	488	$ 44.36	$ 0.0910	488	$ 44.36	$ -	0.00%
TOU - Mid Peak	$ 0.1330	128	$ 16.96	$ 0.1330	128	$ 16.96	$ -	0.00%
TOU - On Peak	$ 0.1850	135	$ 24.98	$ 0.1850	135	$ 24.98	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 130.80**			**$ 131.75**	**$ 0.95**	**0.73%**
HST	13%		$ 17.00	13%		$ 17.13	$ 0.12	0.73%
Total Bill on TOU (before 8% Provincial Rebate)			**$ 147.80**			**$ 148.88**	**$ 1.07**	**0.73%**
8% Provincial Rebate			$ -	0%		$ -	$ -	
Total Bill on TOU			**$ 147.80**			**$ 148.88**	**$ 1.07**	**0.73%**

Fair Hydro Act, 2017 Impact

Current - W/O FHA, 2017			Proposed			Impact	
Rate	Volume	Charge	Rate	Volume	Charge		
($)		($)	($)		($)	$ Change	% Change
$ 19.11	1	$ 19.11	$ 21.61	1	$ 21.61	$ 2.50	13.08%
$ 0.0069	750	$ 5.18	$ 0.0035	750	$ 2.63	$ (2.55)	-49.28%
$ 0.60	1	$ 0.60	$ 0.96	1	$ 0.96	$ 0.36	60.00%
$ -	750	$ -	-$ 0.0002	750	$ (0.15)	$ (0.15)	
		$ 24.89			$ 25.05	$ 0.16	0.64%
$ 0.1151	27	$ 3.11	$ 0.0822	27	$ 2.22	$ (0.89)	-28.59%
-$ 0.0017	750	$ (1.28)	-$ 0.0008	750	$ (0.56)	$ 0.71	-55.88%
$ -	-		$ -	-			
$ 0.0002	750	$ 0.15	$ 0.0002	750	$ 0.15	$ -	0.00%
$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
		$ 27.66			$ 27.64	$ (0.02)	-0.06%
$ 0.0076	777	$ 5.91	$ 0.0077	777	$ 5.98	$ 0.08	1.32%
$ 0.0063	777	$ 4.90	$ 0.0063	777	$ 4.90	$ -	0.00%
		$ 38.46			$ 38.52	$ 0.06	0.16%
$ 0.0036	777	$ 2.80	$ 0.0036	777	$ 2.80	$ -	0.00%
$ 0.0021	777	$ 1.63	$ 0.0003	777	$ 0.23	$ (1.40)	-85.71%
$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
$ 0.0007	750	$ 0.53	$ -	750	$ -		
$ 0.0011	777	$ 0.85	$ -	777	$ -	$ (0.85)	-100.00%
$ 0.0910	488	$ 44.36	$ 0.0650	488	$ 31.69	$ (12.68)	-28.57%
$ 0.1330	128	$ 16.96	$ 0.0950	128	$ 12.11	$ (4.85)	-28.57%
$ 0.1850	135	$ 24.98	$ 0.1320	135	$ 17.82	$ (7.16)	-28.65%
		$ 130.81			$ 103.42	$ (27.39)	-20.94%
13%		$ 17.01	13%		$ 13.44	$ (3.56)	-20.94%
		$ 147.82			$ 116.86	$ (30.95)	-20.94%
		$ -	-8%		$ (8.27)	$ (8.27)	
		$ 147.82			$ 108.59	$ (39.23)	-26.54%

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION		
RPP / Non-RPP:	RPP	Class B	
Consumption	750	kWh	
Demand	-	kW	
Current Loss Factor	1.0341		
Proposed/Approved Loss Factor	1.0341		

ALECTRA - BRAMPTON RATE ZONE

	With Fair Hydro Act, 2017 Reductions (RATE APPLICATION)							
	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 17.64	1	$ 17.64	$ 20.92	1	$ 20.92	$ 3.28	18.59%
Distribution Volumetric Rate	$ 0.0080	750	$ 6.00	$ 0.0040	750	$ 3.00	$ (3.00)	-50.00%
Fixed Rate Riders	$ -	1	$ -	$ 0.19	1	$ 0.19	$ 0.19	
Volumetric Rate Riders	$ 0.0006	750	$ 0.45	$ -	750	$ -	$ (0.45)	-100.00%
Sub-Total A (excluding pass through)			$ 24.09			$ 24.11	$ 0.02	0.08%
Line Losses on Cost of Power	$ 0.0822	26	$ 2.10	$ 0.0822	26	$ 2.10	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0035	750	$ (2.63)	-$ 0.0010	750	$ (0.75)	$ 1.88	-71.43%
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ -	750	$ -	$ -	750	$ -	$ -	
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			$ 24.36			$ 26.25	$ 1.90	7.78%
RTSR - Network	$ 0.0074	776	$ 5.74	$ 0.0075	776	$ 5.82	$ 0.08	1.35%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0057	776	$ 4.42	$ 0.0057	776	$ 4.42	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			$ 34.52			$ 36.49	$ 1.97	5.71%
Wholesale Market Service Charge (WMSC)	$ 0.0036	776	$ 2.79	$ 0.0036	776	$ 2.79	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	776	$ 0.23	$ 0.0003	776	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ -	-		$ -	-			
OESP	$ -	-		$ -	-		$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0950	128	$ 12.11	$ 0.0950	128	$ 12.11	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Total Bill on TOU (before Taxes)			$ 99.41			$ 101.38	$ 1.97	1.98%
HST	13%		$ 12.92	13%		$ 13.18	$ 0.26	1.98%
Total Bill on TOU (before 8% Provincial Rebate)			$ 112.33			$ 114.56	$ 2.23	1.98%
8% Provincial Rebate	-8%		$ (7.95)	-8%		$ (8.11)	$ (0.16)	1.98%
Total Bill on TOU			$ 104.38			$ 106.45	$ 2.07	1.98%

	Without any Fair Hydro Act, 2017 Reductions							
	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 17.64	1	$ 17.64	$ 20.92	1	$ 20.92	$ 3.28	18.59%
Distribution Volumetric Rate	$ 0.0080	750	$ 6.00	$ 0.0040	750	$ 3.00	$ (3.00)	-50.00%
Fixed Rate Riders	$ -	1	$ -	$ 0.19	1	$ 0.19	$ 0.19	
Volumetric Rate Riders	$ 0.0006	750	$ 0.45	$ -	750	$ -	$ (0.45)	-100.00%
Sub-Total A (excluding pass through)			$ 24.09			$ 24.11	$ 0.02	0.08%
Line Losses on Cost of Power	$ 0.1151	26	$ 2.94	$ 0.1151	26	$ 2.94	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0035	750	$ (2.63)	-$ 0.0010	750	$ (0.75)	$ 1.88	-71.43%
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ -	750	$ -	$ -	750	$ -	$ -	
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			$ 25.20			$ 27.09	$ 1.90	7.52%
RTSR - Network	$ 0.0074	776	$ 5.74	$ 0.0075	776	$ 5.82	$ 0.08	1.35%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0057	776	$ 4.42	$ 0.0057	776	$ 4.42	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			$ 35.36			$ 37.33	$ 1.97	5.58%
Wholesale Market Service Charge (WMSC)	$ 0.0036	776	$ 2.79	$ 0.0036	776	$ 2.79	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0021	776	$ 1.63	$ 0.0021	776	$ 1.63	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0007	750	$ 0.53	$ 0.0007	750	$ 0.53		
OESP	$ 0.0011	776	$ 0.85	$ 0.0011	776	$ 0.85	$ -	0.00%
TOU - Off Peak	$ 0.0910	488	$ 44.36	$ 0.0910	488	$ 44.36	$ -	0.00%
TOU - Mid Peak	$ 0.1330	128	$ 16.96	$ 0.1330	128	$ 16.96	$ -	0.00%
TOU - On Peak	$ 0.1850	135	$ 24.98	$ 0.1850	135	$ 24.98	$ -	0.00%
Total Bill on TOU (before Taxes)			$ 127.70			$ 129.67	$ 1.97	1.54%
HST	13%		$ 16.60	13%		$ 16.86	$ 0.26	1.54%
Total Bill on TOU (before 8% Provincial Rebate)			$ 144.30			$ 146.53	$ 2.23	1.54%
8% Provincial Rebate			$ -	0%		$ -	$ -	
Total Bill on TOU			$ 144.30			$ 146.53	$ 2.23	1.54%

Fair Hydro Act, 2017 Impact								
Current - W/O FHA, 2017			Proposed			Impact	
Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
$ 17.64	1	$ 17.64	$ 20.92	1	$ 20.92	$ 3.28	18.59%
$ 0.0080	750	$ 6.00	$ 0.0040	750	$ 3.00	$ (3.00)	-50.00%
$ -	1	$ -	$ 0.19	1	$ 0.19	$ 0.19	
$ 0.0006	750	$ 0.45	$ -	750	$ -	$ (0.45)	-100.00%
		$ 24.09			$ 24.11	**$ 0.02**	**0.08%**
$ 0.1151	26	$ 2.94	$ 0.0822	26	$ 2.10	$ (0.84)	-28.59%
-$ 0.0035	750	$ (2.63)	-$ 0.0010	750	$ (0.75)	$ 1.88	-71.43%
$ -	-		$ -	-			
$ -	750	$ -	$ -	750	$ -	$ -	
$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
		$ 25.20			**$ 26.25**	**$ 1.05**	**4.18%**
$ 0.0074	776	$ 5.74	$ 0.0075	776	$ 5.82	$ 0.08	1.35%
$ 0.0057	776	$ 4.42	$ 0.0057	776	$ 4.42	$ -	0.00%
		$ 35.36			**$ 36.49**	**$ 1.13**	**3.20%**
$ 0.0036	776	$ 2.79	$ 0.0036	776	$ 2.79	$ -	0.00%
$ 0.0021	776	$ 1.63	$ 0.0003	776	$ 0.23	$ (1.40)	-85.71%
$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
$ 0.0007	750	$ 0.53	$ -	750	$ -		
$ 0.0011	776	$ 0.85	$ -	776	$ -	$ (0.85)	-100.00%
$ 0.0910	488	$ 44.36	$ 0.0650	488	$ 31.69	$ (12.68)	-28.57%
$ 0.1330	128	$ 16.96	$ 0.0950	128	$ 12.11	$ (4.85)	-28.57%
$ 0.1850	135	$ 24.98	$ 0.1320	135	$ 17.82	$ (7.16)	-28.65%
		$ 127.70			**$ 101.38**	**$ (26.32)**	**-20.61%**
13%		$ 16.60	13%		$ 13.18	$ (3.42)	-20.61%
		$ 144.30			**$ 114.56**	**$ (29.74)**	-20.61%
		$ -	-8%		$ (8.11)	$ (8.11)	
		$ 144.30			**$ 106.45**	**$ (37.85)**	**-26.23%**

Customer Class:	RESIDENTIAL
RPP / Non-RPP:	RPP
	Class B
Consumption	750 kWh
Demand	- kW
Current Loss Factor	1.0379
Proposed/Approved Loss Factor	1.0379

ALECTRA - HORIZON RATE ZONE

With Fair Hydro Act, 2017 Reductions (RATE APPLICATION)

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.34	1	$ 21.34	$ 23.49	1	$ 23.49	$ 2.15	10.07%
Distribution Volumetric Rate	$ 0.0081	750	$ 6.08	$ 0.0040	750	$ 3.00	$ (3.08)	-50.62%
Fixed Rate Riders	$ 0.79	1	$ 0.79	$ (0.16)	1	$ (0.16)	$ (0.95)	-120.25%
Volumetric Rate Riders	$ -	750	$ -	$ 0.0003	750	$ 0.23	$ 0.23	
Sub-Total A (excluding pass through)			$ 28.21			$ 26.56	$ (1.65)	-5.85%
Line Losses on Cost of Power	$ 0.0822	28	$ 2.34	$ 0.0822	28	$ 2.34	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0026	750	$ (1.95)	-$ 0.0010	750	$ (0.71)	$ 1.24	-63.46%
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ 0.0001	750	$ 0.05	$ 0.0001	750	$ 0.05	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			$ 29.43			$ 29.01	$ (0.41)	-1.40%
RTSR - Network	$ 0.0074	778	$ 5.76	$ 0.0075	778	$ 5.84	$ 0.08	1.35%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0059	778	$ 4.59	$ 0.0060	778	$ 4.67	$ 0.08	1.69%
Sub-Total C - Delivery (including Sub-Total B)			$ 39.78			$ 39.52	$ (0.26)	-0.65%
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ -	-		$ -	-			
OESP	$ -	-		$ -	-		$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0950	128	$ 12.11	$ 0.0950	128	$ 12.11	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Total Bill on TOU (before Taxes)			$ 104.68			$ 104.43	$ (0.26)	-0.25%
HST	13%		$ 13.61	13%		$ 13.58	$ (0.03)	-0.25%
Total Bill on TOU (before 8% Provincial Rebate)			$ 118.29			$ 118.00	$ (0.29)	-0.25%
8% Provincial Rebate	-8%		$ (8.37)	-8%		$ (8.35)	$ 0.02	-0.25%
Total Bill on TOU			$ 109.92			$ 109.65	$ (0.27)	-0.25%

Without any Fair Hydro Act, 2017 Reductions

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 21.34	1	$ 21.34	$ 23.49	1	$ 23.49	$ 2.15	10.07%
Distribution Volumetric Rate	$ 0.0081	750	$ 6.08	$ 0.0040	750	$ 3.00	$ (3.08)	-50.62%
Fixed Rate Riders	$ 0.79	1	$ 0.79	$ (0.16)	1	$ (0.16)	$ (0.95)	-120.25%
Volumetric Rate Riders	$ -	750	$ -	$ 0.0003	750	$ 0.23	$ 0.23	
Sub-Total A (excluding pass through)			$ 28.21			$ 26.56	$ (1.65)	-5.85%
Line Losses on Cost of Power	$ 0.1151	28	$ 3.27	$ 0.1151	28	$ 3.27	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0026	750	$ (1.95)	-$ 0.0010	750	$ (0.71)	$ 1.24	-63.46%
GA Rate Riders	$ -	-		$ -	-			
Low Voltage Service Charge	$ 0.0001	750	$ 0.05	$ 0.0001	750	$ 0.05	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			$ 30.36			$ 29.95	$ (0.41)	-1.36%
RTSR - Network	$ 0.0074	778	$ 5.76	$ 0.0075	778	$ 5.84	$ 0.08	1.35%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0059	778	$ 4.59	$ 0.0060	778	$ 4.67	$ 0.08	1.69%
Sub-Total C - Delivery (including Sub-Total B)			$ 40.71			$ 40.46	$ (0.26)	-0.63%
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0021	778	$ 1.63	$ 0.0021	778	$ 1.63	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0007	750	$ 0.53	$ 0.0007	750	$ 0.53		
OESP	$ 0.0011	778	$ 0.86	$ 0.0011	778	$ 0.86	$ -	0.00%
TOU - Off Peak	$ 0.0910	488	$ 44.36	$ 0.0910	488	$ 44.36	$ -	0.00%
TOU - Mid Peak	$ 0.1330	128	$ 16.96	$ 0.1330	128	$ 16.96	$ -	0.00%
TOU - On Peak	$ 0.1850	135	$ 24.98	$ 0.1850	135	$ 24.98	$ -	0.00%
Total Bill on TOU (before Taxes)			$ 133.08			$ 132.82	$ (0.26)	-0.19%
HST	13%		$ 17.30	13%		$ 17.27	$ (0.03)	-0.19%
Total Bill on TOU (before 8% Provincial Rebate)			$ 150.38			$ 150.09	$ (0.29)	-0.19%
8% Provincial Rebate			$ -	0%		$ -	$ -	
Total Bill on TOU			$ 150.38			$ 150.09	$ (0.29)	-0.19%

Fair Hydro Act, 2017 Impact

Current - W/O FHA, 2017			Proposed			Impact	
Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
$ 21.34	1	$ 21.34	$ 23.49	1	$ 23.49	$ 2.15	10.07%
$ 0.0081	750	$ 6.08	$ 0.0040	750	$ 3.00	$ (3.08)	-50.62%
$ 0.79	1	$ 0.79	$ (0.16)	1	$ (0.16)	$ (0.95)	-120.25%
$ -	750	$ -	$ 0.0003	750	$ 0.23	$ 0.23	
		$ 28.21			$ 26.56	**$ (1.65)**	**-5.85%**
$ 0.1151	28	$ 3.27	$ 0.0822	28	$ 2.34	$ (0.94)	-28.59%
-$ 0.0026	750	$ (1.95)	-$ 0.0010	750	$ (0.71)	$ 1.24	-63.46%
$ -	-		$ -	-			
$ 0.0001	750	$ 0.05	$ 0.0001	750	$ 0.05	$ -	0.00%
$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
		$ 30.36			**$ 29.01**	**$ (1.35)**	**-4.44%**
$ 0.0074	778	$ 5.76	$ 0.0075	778	$ 5.84	$ 0.08	1.35%
$ 0.0059	778	$ 4.59	$ 0.0060	778	$ 4.67	$ 0.08	1.69%
		$ 40.71			**$ 39.52**	**$ (1.19)**	**-2.93%**
$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
$ 0.0021	778	$ 1.63	$ 0.0003	778	$ 0.23	$ (1.40)	-85.71%
$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
$ 0.0007	750	$ 0.53	$ -	750	$ -		
$ 0.0011	778	$ 0.86	$ -	778	$ -	$ (0.86)	-100.00%
$ 0.0910	488	$ 44.36	$ 0.0650	488	$ 31.69	$ (12.68)	-28.57%
$ 0.1330	128	$ 16.96	$ 0.0950	128	$ 12.11	$ (4.85)	-28.57%
$ 0.1850	135	$ 24.98	$ 0.1320	135	$ 17.82	$ (7.16)	-28.65%
		$ 133.08			**$ 104.43**	**$ (28.65)**	**-21.53%**
13%		$ 17.30	13%		$ 13.58	$ (3.72)	-21.53%
		$ 150.38			**$ 118.00**	**$ (32.37)**	-21.53%
		$ -	-8%		$ (8.35)	$ (8.35)	
		$ 150.38			**$ 109.65**	**$ (40.73)**	**-27.08%**

	With Fair Hydro Act, 2017 Reductions (RATE APPLICATION)			Without any Fair Hydro Act, 2017 Reductions	
Brampton RZ	$	2.07	1.98%	$ 2.23	1.54%
Enersource RZ	$	1.00	0.93%	$ 1.07	0.73%
Horizon RZ	$	(0.27)	-0.25%	$ (0.29)	-0.19%
PowerStream RZ	$	(2.39)	-2.14%	$ (2.57)	-1.69%

JT.2.31

a) To advise the last year in which no breakers were replaced in the PowerStream Rate Zone.

Response:

a) Alectra Utilities operates both Transformer Station ("TS") circuit breakers, as well as Municipal Substation ("MS") circuit breakers in the PowerStream rate zone. The proposed 2018 ICM project Planned Circuit Replacement – Richmond Hill TS#1 is for replacement of TS circuit breakers.

Since the year 2000, the legacy PowerStream, continuing as Alectra Utilities, did not replace circuit breakers in Transformer Stations in 2000, 2003, 2004, 2005, 2006, 2007, 2008, 2012 and 2016.

Since 2000, the legacy PowerStream, continuing as Alectra Utilities, did not replace circuit breakers in Municipal Substations in 2000, 2001, 2004, 2005, 2009, 2010, 2011, 2012, 2013, 2014, 2015 and 2017.

JT.2.32

a) To provide information on the impacts of changes to accounting policies as a result of the merger.

Response:

Please see Alectra Utilities' response to JT Staff 1 for the total net impact of the financial differences arising from the change to Alectra Utilities' capitalization policy. Alectra Utilities has provided the Capitalization Policy Memo as JT2.32_Attach 1_Capitalization Policy Memo.

Alectra Utilities has completed a review of the following accounting policies: allowance for doubtful accounts; derecognition; and payment in lieu of taxes. These accounting policies aligned across all rate zones and no change was required.

ACCOUNTING POLICY RECOMMENDATION
[Document No.: FIN-POL-004]

Capitalization and Overhead Allocations

A. EXECUTIVE SUMMARY

This report documents the results of the capitalization review and provides a recommended capitalization accounting policy for MergeCo. In addition, the report provides the foundational methodologies necessary to implement uniform capitalization procedures for MergeCo effective from the date of merger.

A detailed review of accounting policies of predecessor utilities was undertaken which primarily focused on overhead and indirect costs. The following steps were completed as part of the review:

- Review IFRS requirements in regards to Property, Plant and Equipment ("PPE"), Intangible Assets and Business Combinations
- Review OEB regulatory requirements in regards to cost capitalization
- Review each utility's legacy accounting policy including detailed analysis of the different costs capitalized
- Make a recommendation and quantify the impact on capital and operating expense

The accounting treatment related to the capitalization policy is in alignment with *IAS 16 Property, Plant and Equipment* ("IAS 16") and *IAS 38 Intangible Assets* ("IAS 38") which prescribe which costs are to be capitalized and which costs are to be expensed for PPE and intangible assets acquired, self-constructed or internally developed.

It is recommended that the capitalization policy for MergeCo align with PowerStream's policy, also defined as the "acquirer's policy", as PowerStream was determined to be the acquirer in the formation of MergeCo and as such the policies for the companies purchased should align to the acquirer's policy. This is supported by IFRS 10 *Consolidated Financial Statements* which states that uniform accounting policies have to be adopted for like transactions in a group of companies.

The following table provides a summary of the forecasted impact the proposed policy will have on the pre-tax net income basis:

($000s)	**2017**	**2018**	**2019**	**2020**	**2021**	**Total**
OM&A	6,279	6,301	6,352	6,522	6,694	32,148
Depreciation	(73)	(221)	(372)	(526)	(697)	(1,889)
Pre-tax Net Income	**6,206**	**6,080**	**5,980**	**5,996**	**5,997**	**30,259**

B. OVERVIEW OF IFRS STANDARDS

IAS 16 and IAS 38 prescribe which costs can be capitalized or expensed for PPE and intangible assets acquired, self-constructed or internally developed.

For the purposes of capitalization, IAS 16 requires that:

- The cost of an item of PPE should comprise of the purchase price, any costs that are directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management and the initial estimate of costs of dismantling and removing the item and restoring the site on which it is located.
- IAS 16 notes the following examples of directly attributable costs which include:
    - cost of employee benefits arising directly from the construction or acquisition of PPE;
    - cost of site preparation;
    - initial delivery and handling costs;
    - installation and assembly costs;
    - costs of testing whether the asset is functioning properly; and
    - professional fees.
- IAS 16 notes the following examples of costs that are not directly attributable which includes:
    - costs of opening a new facility;
    - cost of introducing a new product or service;
    - costs of conducting business in a new location;
    - administration and other general overhead costs;
    - costs incurred while an item capable of operating in a the manner intended by management has yet to be brought into use or is operating at less than full capacity;
    - initial operating losses; and
    - costs of relocating or reorganizing part or all of an entity's operations.

IFRS 10 Consolidated Financial Statements discusses procedures when preparing consolidated financial statements.

IFRS 10 notes that a parent shall prepare consolidated financial statements using uniform accounting policies for like transactions and other events in similar circumstances.

Further clarification is given in IFRS 10 - B87 which states that if a member of the group uses accounting policies other than those adopted in the consolidated financial statements for like transactions and events in similar circumstances, appropriate adjustments are made to that group member's financial statements in preparing the consolidated financial statements to ensure conformity with the group's accounting policies.

Conclusion:

Based on the above, MergeCo is required to analyze and validate the appropriateness of accounting policies of each of its individual companies and ensure uniform accounting policies are applied across all of its subsidiaries.

C. OVERVIEW OF REGULATORY REQUIREMENTS

The purpose of capitalizing expenditures for rate-making purposes is to provide for an equitable allocation of costs among existing and future customers. As assets are expected to provide future economic benefits, expenditures incurred for the acquisition, construction or development of assets should be capitalized and allocated over the estimated useful lives of the associated assets in the form of depreciation expense.

Per the OEB's July 2009 Report on the Transition to IFRS, distributors are required to adhere to IFRS capitalization accounting requirements for rate-making and regulatory reporting purposes upon IFRS adoption. In addition, each utility is required to file its capitalization policy as part of its rate filing application and identify any updates to the policy and the impact, if any, on rates as a result of a change in policy.

All four utilities have had their rates reset under MIFRS and as part of past rate applications have filed their capitalization policies with the OEB; they are further required to identify any changes to these policies and quantify the impact, if any, on rates due to these changes.

The OEB does not provide any guidance in its Handbook regarding accounting policy changes as a result of merger and acquisitions.

Conclusion:

Based on the above, Management, in collaboration with Regulatory team, will determine the appropriate treatment from a regulatory perspective on the changes to the capitalization policy and the impact to rates.

D. COMPARATIVE ANALYSIS

Overview

As discussed in section B above, IAS 16 requires that costs that are capitalized are directly attributable to bringing the asset to the location and condition necessary for it to be operating in the manner intended by management. All four utilities capitalize directly attributable costs, including certain overhead costs, to the extent that a direct relationship is demonstrated between the expenditure and the construction or acquisition of PPE or intangible assets.

The following tasks were completed as part of this review:

- Review each utility's legacy accounting policy and the rationale behind it
- Prepare a detailed analysis of each cost category capitalized (labour, vehicles, materials, third party, etc.)
- Prepare a detailed analysis of major differences for each cost category
- Make a recommendation on the accounting policy
- Quantify the financial impact of the proposed accounting policy

Analysis

The capitalization policy includes capitalization related to the following cost categories, which become part of the cost of a self- constructed asset or internally developed software:

- Direct Labour – relates to labour that is directly charged to capital work
- Benefit Costs – employee benefit costs related to employees performing capital work
- Administration fee charged to customer jobs – overhead costs that require customer contributions
- Material burdens – related to costs from inventory used for capital work

- Fleet Burden – costs related to vehicles used for capital work

The changes per utility as a result of complying with the acquirer's policy are summarized in the table below:

	Enersource	PowerStream	HOBNI	Horizon	MergeCo
Direct labour	2,162,177	-	130,387	1,726,949	4,019,513
Benefits Costs	(115,325)	(252,306)	(586,154)	436,627	(517,159)
Admin to customer jobs	(2,926,771)	-	(2,106,026)	-	(5,032,797)
Material Burden	2,257,208	808,859	212,096	2,354,025	5,632,188
Fleet Burden	414,683	-	-	1,762,653	2,177,336
Total OM&A Impact	**1,791,972**	**556,553**	**(2,349,697)**	**6,280,253**	**6,279,081**

The current state as compared to moving to the acquirer's policy is summarized by category below. There are differences in relation to PowerStream's capitalization due to a reclassification of costs between burden pools andis is explained in the benefits section below.

Labour Costs

Current State

All four utilities capitalize directly attributable labour costs, however the method used to arrive at the amount capitalized for different departments varies. The table below describes the high-level differences between each policy.

Process	Enersource	PowerStream	HOBNI	Horizon
Direct Labour Costs	Direct time sheeting	Direct time sheeting for outside/inside union employees. For other employees that do not direct time sheet, estimates are done during the budgeting process to reflect the percentage of time that will be spent on capital project initiatives.	Direct time sheeting	Direct time sheeting

Generally, all four utilities are aligned regarding direct time sheeting, however differences exist regarding the direct labour capitalization for the following areas of business: network planning, standards development, records and customer care as shown on the following table:

	Enersource	PowerStream	HOBNI	Horizon
Network planning, standards, records	Expense	Capitalize	Capitalize	Expense
Billing/Call Centre - Customer account set up	Expense	Capitalize	Expense	Expense

Impact

The impact of each utility aligning to PowerStream's policy is as follows:

	Enersource	PowerStream	HOBNI	Horizon	MergeCo
Network planning, standards, records	1,899,163	-	-	1,726,949	3,463,871
Billing/Call Centre - Customer account set up	263,014		130,387	-	555,642
Total	**2,162,177**	**-**	**130,387**	**1,726,949**	**4,019,513**

Benefit Costs

Employee benefits are all forms of consideration given by an entity in exchange for service rendered by employees or for the termination of employment.

Employee benefits include CPP, EI, EHT, WSIB, pension, healthcare and insurance benefits, vacation, sick pay, holiday pay, employee post retirement benefits and other payroll related costs.

Based on IAS 16.17, costs of employee benefits arising directly from the construction or acquisition of the item of PPE are considered directly attributable costs.

Current State

All four utilities, currently capitalize directly attributable employee benefits associated with employees who work on capital projects. Generally, for each hour of regular time capitalized (salary or wage) a percentage/or amount (benefit rate) of related benefits is allocated to the capital project.

Every year analysis is performed to determine the annual benefit rate for each employee category to appropriately capture all the forecasted benefit costs in the new rates for the year.

The following table shows the main items included in the pool of benefit costs for each utility and a recommendation proposed for MergeCo's accounting policy.

Y - Included in the pool N - Not included in the pool			E – Enersource; P – PowerStream; B – HOBNI; H - Horizon		
Item	E	P	B	H	MergeCo
Canada Pension Plan	Y	Y	Y	Y	No change
Employment Insurance	Y	Y	Y	Y	No change
WSIB	Y	Y	Y	Y	No change
Employer Health Tax	Y	Y	Y	Y	No change
OMERS	Y	Y	Y	Y	No change
Post-Retirement Benefits	Y	Y	Y	N	Include in the pool
EHC & Dental	Y	Y	Y	Y	No change
Life Insurance	Y	Y	Y	Y	No change
LTD Premiums	Y	Y	Y	Y	No change
AD&D	Y	Y	Y	Y	No change
Public Holidays	Y	Y	Y	Y	No change

Vacation/ Floater/Jury Duty	Y	Y	Y	Y	No change
Bereavement	Y	Y	Y	Y	No change
Sick Leave	Y	Y	Y	Y	No change
Union Allowance	Y	Y	Y	Y	No change
Employees Vehicles Expense	Y	N	N	N	Exclude from the pool
Memberships	Y	N	Y	N	Exclude from the pool
Safety Training	Y	N	Y	N	Exclude from the pool
Safety Meetings	Y	N	Y	N	Exclude from the pool
Safety Clothing	N	Y	Y	N	Include in the pool
Fitness Program	Y	N	N	Y	Exclude from the pool
Unproductive/Downtime/ Inclement weather	N	N	Y	N	Exclude from the pool
Small Tools*	N	Y	Y	N	To be moved to material burden pool
Depreciation - Major Tools & Equipment*	N	Y	N	N	To be moved to material burden pool

The above differences will be aligned to the Acquirer's policy with the exception of small tools and depreciation of major tools and equipment. These items are not part of the employee compensation package nor they relate to an employee benefit, therefore the recommendation is to move them to the material burden pool and allocate them accordingly to projects. This will be a change in estimate for PowerStream, therefore will be applied prospectively.

Impact

The following table shows the impact of the recommended approach to each utility's OM&A and overall impact to MergeCo's OM&A for employee benefits.

	Enersource	**PowerStream**	**HOBNI**	**Horizon**	**MergeCo**
Post-Retirement Benefits	-	-	-	386,092	386,092
Employees Vehicles Expense	(32,780)	-	-	-	(32,780)
Memberships/Fitness	(12,407)	-	-	-	(12,407)
Safety Training/ Meetings	(171,454)	-	(304,455)	-	(475,909)
Safety Clothing	109,734	-	-	50,535	169,612
Fitness Program	(8,418)	-	-	-	(17,761)
Unproductive/Downtime/ Inclement weather	-	-	(129,408)	-	(129,408)
Small Tools*	-	(88,123)	(152,291)	-	(240,414)
Depreciation/Major Tools*	-	(164,184)	-	-	(164,184)
Total	**(115,325)**	**(252,307)**	**(586,154)**	**436,627**	**(517,159)**

*The change related to PowerStream's policy is to reclass the small tools and depreciation to the Material burden pool.

MergeCo alignment of benefits

The impact of the alignment of actual employee benefits for all four companies, to be undertaken by Human Resources has been determined to be out of scope for the purposes of benefit capitalization analysis. Any benefit changes as a result of this alignment could have an impact to the overall benefit overhead rate that needs to be charged to recover the change in pool costs.

Burden/ Administration Charge

Current State

Enersource allocates a burden and administration charge to capital projects that require a customer contribution. These overhead costs were designed to recover some of the overheads related to supporting functions that do not allocate time directly to projects for activities such as control room, standards, invoicing, accounts payable etc.

Hydro One Brampton adds a surcharge for all non-inventory vendor invoices. This surcharge is to ensure that preference is not given to non-inventory purchases over inventory.

PowerStream`s policy does not include a burden or administration charge on capital projects, nor does it include a burden on vendor invoices. As a result these amounts will no longer be capitalized or impact the customer contribution amounts.

Impact

The following table shows the impact of the recommended approach to each utility's OM&A and overall impact to MergeCo's OM&A.

	Enersource	PowerStream	HOBNI	Horizon	MergeCo
Admin Fee	(2,303,625)	-	(2,106,026)	-	(4,409,651)
Labour Burden	(623,146)	-	-	-	(623,146)
Total	**(2,926,771)**	**-**	**(2,106,026)**	**-**	**(5,032,797)**

Material Costs

Material costs include inventory items taken from stores (warehouse) and issued out to each project as well as materials which are purchased and delivered to the job site directly. These costs are directly attributable to bringing the asset to the location and condition necessary for it to operate in the manner intended by management and therefore, these costs can be capitalized under IFRS. The costs capitalized generally include the purchase price and initial delivery costs of the materials. All four utilities are consistent in their material capitalization policies and therefore there is no material financial impact anticipated as a result of harmonizing the four processes.

Material Burden

Material burdens relate to an overhead amount charged on material issued out from the warehouse directly to a capital job. The material burden is meant to recover Supply Chain costs.

Current State

All four utilities capitalize directly attributable inventory expenses, however only PowerStream and Hydro One Brampton include a burden on material issues. The table below describes the high-level differences between each policy.

	Enersource	PowerStream	HOBNI	Horizon
Material Burden	No	Yes – to materials issued from the warehouse	Yes – to materials issued from the warehouse and directly distributed in field	No

Impact

The recommendation is to capitalize these costs, which is consistent with the Acquirer's accounting policy. The impact on OM&A relating to this change is shown in the table below:

		Enersource	PowerStream	HOBNI	Horizon	MergeCo
Labour for purchasing and stores	Y	1,198,811	-	-	1,710,741	2,909,552
Small Items (Open Bin)	Y	863,030	302,515	343,996	231,713	1,741,254
Building Allocation	N	-	-	(131,900)	-	(131,900)
Depreciation - Major Tools & Equipment	Y	195,366	506,345	-	411,571	1,113,282
		2,257,207	**808,860**	**212,096**	**2,354,025**	**5,632,188**

Vehicle Costs

Vehicle costs include the costs associated with maintaining automobiles, trucks and equipment, trailers and other fleet equipment.

Current state

All four utilities currently capitalize directly attributable vehicle costs used in construction activities. Usually a fleet rate is determined on an annual basis for each vehicle group with the objective to appropriately reflect all costs incurred in the operation and maintenance of each vehicle. When a vehicle is used for a capital project, an hourly rate is charged based on the type of vehicle used.

The following table shows the main items included in the pool of benefit costs for each utility and a recommendation proposed for MergeCo's accounting policy.

Y - Included in the pool N - Not included in the pool			E – Enersource; P – PowerStream; B – HOBNI; H - Horizon		
Item	**E**	**P**	**B**	**H**	**MergeCo**
Fuel*	Y	Y	Y	Y	Include in the pool
Labour*	Y	Y	Y	N	Include in the pool
Insurance	Y	Y	Y	Y	No change
Repairs & maintenance*	Y	Y	Y	N	Include in the pool
Depreciation expense	Y	Y	Y	N	Include in the pool

*Enersource currently does not include in the pool a portion of these expenses that cannot directly be allocated to a vehicle.

The above differences will be aligned to the PowerStream policy.

Impact

The following table represents the impact of the recommended approach to each utility's OM&A and overall impact to MergeCo's OM&A.

	Enersource	PowerStream	HOBNI	Horizon	MergeCo
Fuel	76,719	-	-	-	76,719
Labour	176,365	-	-	518,324	694,689
Repairs/maintenance	161,599	-	-	608,504	770,103
Depreciation	-	-	-	635,825	635,825
Total Impact on OM&A	**414,683**	**-**	**-**	**1,762,653**	**2,177,336**

MergeCo rationalization of fleet policies

The impact of the alignment of actual fleet policies regarding replacement, service and maintenance for all four companies, to be undertaken by Supply Chain, has been determined to be out of scope for the purposes of benefit capitalization analysis.

Third Party Costs

Sub-contractor costs are incurred when a company engages a third party to perform services or outsource certain construction activities. Under IFRS, these costs are capitalized since they are directly attributable costs of bringing the asset to the location and to a condition necessary for it to operate in the manner intended by management. All four utilities are consistent in their sub-contractor capitalization policies and therefore there is no material financial impact anticipated as a result of harmonizing the four policies.

Borrowing costs

IAS 23 Borrowing Costs establishes the criteria for the recognition of borrowing costs as a component of the carrying amount of an acquired or self-constructed item of PPE. Borrowing costs that are directly attributable to the acquisition, construction or production of a qualifying asset form part of the cost of that asset.

IAS 23 allows for the capitalization of interest only on capital projects that are undergoing active capital construction or development work for a significant period of time. Horizon determined that a significant period of time is 12 months or longer, while PowerStream used four months or longer. Both Hydro One Brampton and Enersource have determined that a significant period of time is six months or longer.

The recommendation is to use four months for all entities, which is consistent with the Acquirer's accounting policy. This change will not have a significant impact to financial results.

E. ACCOUNTING POLICY RECOMMENDATION

It is recommended that MergeCo adopts the PowerStream accounting policy, as PowerStream has been determined to be the acquirer under IFRS 3 Business Combinations.

F. NON-FINANCIAL IMPACTS

Information Systems:

- Changes to the legacy systems of the merger partners may need to be implemented, if viable.
- Processes need to be developed to accommodate the capitalization policy in the target ERP system.
- Processes to be developed for an annual review of the capitalization policy.

Finance:

- Processes may need to be developed to facilitate financial reporting for capitalization policy changes if changes to legacy systems are not viable.

Operations:

- Economic model calculations will need to be updated based on the new MergeCo policy
- Communication and training to occur throughout the organization on the new MergeCo policy.

Regulatory:

- Regulatory team to determine the appropriate treatment from a regulatory perspective on the changes to the capitalization policy and the impact to rates.
- Processes will need to be developed to enable financial reporting in accordance with existing rate decisions for the respective merger partners.

G. DOCUMENTATION

The following documents have been utilized in order to prepare this Accounting Policy recommendation:

- IAS 16
- IAS 8
- IAS 38
- IFRS 3
- APH

JT.2.33

a) To provide Horizon's capital budget for 2018.

Response:

a) Alectra Utilities has interpreted Undertaking JT2.33 as to provide tables with material capital investments for 2018 for the PowerStream, Enersource and Brampton rate zones that were originally planned in prior years and to identify the reason for the scheduling into 2018. Certain capital investments that are part of transitional capital expenditures have not been included as such expenditures are to be borne by the shareholders of Alectra Utilities. It is also important to note that as part of capital investment planning and pacing, there are also certain capital projects that were originally scheduled for 2018 and subsequently deferred to later years.

For the PowerStream rate zone, the original timing of capital expenditures is referenced from the PowerStream Rate Zone Distribution System Plan (EB-2015-0003, Exhibit G, Tab2). For 2018, the PowerStream Rate Zone DSP proposed a capital expenditure of $125.5MM which is $15.7MM lower than the forecasted 2018 capital expenditure of $109.8MM in this application. Alectra Utilities has provided in response to interrogatory PRZ-Staff-7 a summary of modifications including any changes in the timing from the DSP to the present application. Table 1 below provides the projects within the PowerStream rate zone that were previously submitted to be completed prior to 2018 and have been scheduled for completion in 2018.

Table 1: List of Deferred Capital Expenditures from Prior Years into 2018 for PRZ

Project	Original Timing DSP	Revised Timing	CAPEX Deferred ($000)	Notes
Build double ccts 27.6kV pole line on 19th Ave between Leslie St and Bayview Ave	2017	2018	$1,202	(1)
Rebuild 27.6 kV pole line on Warden Ave into 4 ccts from 16th Ave to Major Mack	2017	2018	$1,373	(2)

Notes –

(1) The project had been deferred from the original scheduled year of 2017 in the DSP into 2018 to align with the progress of the Leslie North development.

(2) The project had been deferred from the original scheduled year of 2017 into 2018 to align with the progress of the Markham Future Urban Area ("FUA") development.

For the Brampton rate zone, the original timing of capital expenditures is referenced from the 2014-2019 Brampton Rate Zone Distribution System Plan (EB-2014-0083, Exhibit 2, Tab 6). For 2018, the Brampton Rate Zone DSP proposed a capital expenditure of $29.6MM which is $8.5MM higher than the forecasted 2018 capital expenditure of $38.1MM in this application. The majority of the increase in the 2018 capital expenditure forecasted in this application is attributed to the $6.8MM payment for the 10 Year CCRA true-up for Pleasant TS.

Table 2 below provides the expenditures within the Brampton rate zone that were previously submitted to complete prior to 2018 and have been deferred to the 2018 ICM.

Table 2: List of Deferred Capital Expenditures from Prior Years into 2018 for BRZ

Project	Original Timing DSP	Revised Timing	CAPEX Deferred ($000)	Notes
UG Lines Asset Replacement	2015/16	2018	$1,210	(3)
4.16kV To 27.6kV Conversion	2016	2018	$1,064	(4)

Notes –

(3) The additional $1.2MM in 2018 can be attributed to cable replacements and rehabilitations that were deferred from 2015 & 2016 as pacing adjustment. Please see response to CCC-16 for a detailed explanation of the pacing related to Underground Lines Asset Replacement expenditures.

(4) The multi-year voltage conversion initiative was paused in 2016 based on experiences from 2015. Please see response to BRZ-Staff-8 for a detailed explanation of the pacing related to 4.16kV to 27.6kV Conversion expenditures.

For the Enersource rate zone, the original timing of capital expenditures is referenced from the Draft 2015 Enersource Rate Zone Distribution System Plan (EB-2015-0065, Interrogatory Responses, Supp-Staff-15). Alectra Utilities has provided in response to interrogatory 4.0-VECC-24 a summary of changes in the expenditures and timing from the Draft DSP to the present DSP which provides the 2018 capital expenditure forecasts in this application. Table 3 below provides the projects within the Enersource rate zone that were previously submitted to be completed prior to 2018 and have been scheduled for completion in 2018. Please see response to BOMA-54 which outlines the $5.085MM deferred from 2018 into latter years.

Table 3: List of Deferred Capital Expenditures from Prior Years into 2018 for BRZ

Project	Original Timing Draft DSP	Revised Timing	CAPEX Deferred ($000)	Notes
Roads Project - Creditview - Britannia to Argentia	2017	2018	$967	(5)
Roads Project - QEW - Evans To Cawthra	2017	2018	$1,294	(6)
City Centre Drive Cable Renewal	2017	2018	$1,548	(7)
Courtney Park - Dixie To Ordan	2017	2018	$778	(8)
Churchill Meadows Feeder Egress - TS to Winston Churchill	2017		$1,040	(9)
Project - Mavis Building Envelope	2016	2018	$600	(10)

Notes –

(5) This project was deferred from 2017 into 2018 due to City of Mississauga timeline requirements.

(6) This project was deferred from 2017 into 2018 due to Ministry of Transportation timeline requirements.

(7) Project was deferred due to insufficient funds.

(8) Project was deferred due to insufficient funds.

(9) Project was deferred as necessary land easements from Infrastructure Ontario were not received in order to proceed with project.

(10) General Plant project deferred due to merger discussions. Investment is required in 2018 to ensure moisture does not penetrate the building which would negatively affect the work environment for staff and visitors.

JT.2.34

a) To file a document describing the criteria for the three categories of leaks.

Response:

a) Leaking transformers are identified during the on-site asset inspection process. Inspectors categorize the oil leak based on visual criteria outlined in the attached inspection manuals:

- JT2.34_Attach 1_ERZ Inspection Manual Pad Mount Transformer
- JT2.34_Attach 2_ERZ Inspection Manual Pole Mount Transformer
- JT2.34_Attach 3_ERZ Inspection Manual Vault Transformer

The oil leak severity criteria of minor, moderate and major for pad mounted transformer is identified in Figure 3 (p. 6) of the ERZ Inspection Manual Pad Mount Transformer. The oil leak severity criteria of minor, moderate and major for pole mounted transformers is identified in Figure 13 (p.10) of the ERZ Inspection Manual Pole Mount Transformer.
The oil leak severity criteria of minor, moderate and major for vault transformers is identified in Figure 10 (p. 11) of the ERZ Inspection Manual Vault Transformer.

Enersource Hydro Mississauga

Asset Management

Pad Mounted Transformer Inspections

Training Manual

Table of Contents

Section 1

Pre-Inspection

Safety

Safety is always our first concern. Be aware of your surroundings and look for hazards. Always contact your supervisor with any questions or concerns. All employees have the right to refuse work if they believe it is unsafe. **If you are not sure it is safe, do not proceed with it**. Be cautious of broken/missing ground wires. Do not touch them as they could carry a dangerous voltage. Report all dangerous conditions to the control room immediately and to your supervisor. Control room number: 905-283-4300.

Required Equipment

- Hardhat
- Safety glasses, **clear and dark**
- Enersource high visibility clothing
- Sunscreen
- Water and Gatorade type drinks
- Cooler
- 5ft ladder
- Panasonic ToughPAD tablet
- Camera
- Steel-toe boots with **green patch and orange omega** symbol
- Band-it tool
- Band-it bands, clips, and plates
- TX number stickers
- Safety gloves (for banding)
- Cutters and punch for inspection stickers

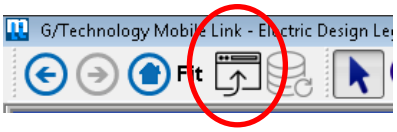
Logging In and Configuring Tablet Software

Before heading out to site check tablet battery level and whether they are in good working condition or not. Fill out Sign Out/In sheet when taking out the tablets.

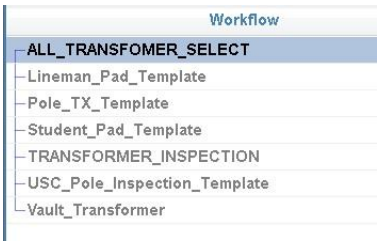
1. Open mobile link by double-clicking the icon on your desktop.

2. Log onto the application.

3. Select “Open Redline Document” icon on the icon bar (5th from left).



4. Select the Workflow type for the list of available templates.



- Be sure to select the appropriate template for what you are inspecting.
- “ALL_TRANSFOMER_SELECT” recommended for Pole Mount, Pad Mount, and Vault Inspections.
- Previous Redline Documents will appear under the selected Workflow if you wish to resume an earlier inspection. If not, proceed to step 5.

5. Press the “New” button on the left corner of the screen. This will initiate the inspection template in the MobileLink viewer.

Approaching Transformer

1. Park vehicle as close to TX as possible.
    - Avoid parking on high-speed roads (≥60km/h) unless free designated parking available.
    - Activate warning lights if parked on roadside.
    - Reverse park into all parking spots.
2. Place pylons in front and behind vehicle.
    - Pylon behind not necessary if no other parking spots behind vehicle.
3. Turn off and lock vehicle.
    - Not necessary if parked adjacent to TX.
4. Be sure to wear hard hat, safety boots, and high-visibility safety clothing for all inspections.

Inspecting in Customer Backyards

Some transformers will be located in customer backyards. To approach these, first **knock on the front door and explain your purpose** to the customer. Proceed if the customer approves. If the **customer does not answer the door, proceed anyway**. On the way in an out of the property, be mindful of animals and try not to disturb any of the customer's belongings. Take pictures of anything that the maintenance crew may come in contact with in the backyard en route to the TX eg. cracked tiles, fragile décor etc. This is to ensure the state of the property is documented before the crew begins work.

Section 2

Safety and Transformer Inspection

GPS Data and TX Selection

Once safely parked, proceed with the inspection:

1. Move toward the pole and stand at the base, then click the "GPS" button at the bottom the map.

2. Under the "Workflow" section on the left, expand the "Inspect" bullet and select "Pad mount Transformer".

3. Click "Inspect Pad mount Transformer" at the bottom right of the "Workflow" section and then select the transformer you wish to inspect.

TX Attributes

Only the listed attributes below are necessary to complete inspection, disregard other fields.

1) Nomenclature Match

- Ensure TX number in GNet matches number tagged onto pad.
    i. Tagged number may or may not include "TX", still confirmed as a match. (Figure 1)
- Options:
    i. YES
    ii. NO
- Apply new stickers for wrong/missing TX numbers

Figure 1

2) Address

- Fill in address most adjacent to the TX, eg. “7033 Teleford Way”
- Provide relative location if no address is adjacent, eg. “NE corner of Derry Rd E & Airport Rd”

3) Transformer Location

- Refers to what section of the property’s yard the TX is located.
- Options:
    i. FRONT
    ii. BACK
    iii. FRONTLOT

4) Transformer Access

- Judge whether TX is easily accessible by outside crews.
- Options:
    i. GOOD
    ii. POOR
    iii. NO ACCESS

5) T/L Sticker

- Figure 2
- Options:
    i. YES
    ii. NO

Figure 2

6) Oil Leak (External)

- Observe TX for moist dark spots. (Figure 3)
- Options:

None	Minor	Moderate
		

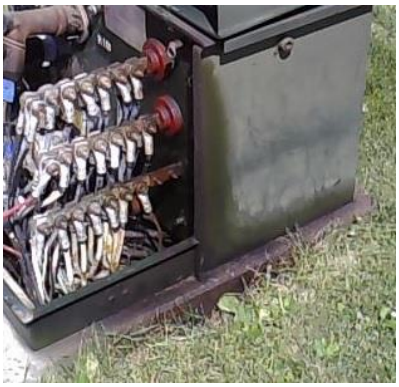
Major


Figure 3

7) Rust Lid/Skirt/Tank

- Observe out of TX for rust. (Figure 4)
- Options:

NONE	MINOR
	
MODERATE	MAJOR
	

Figure 4

8) Cable Compartment/Skirt Damage

- Figure 5
- Options:
    i. YES
    ii. NO

Figure 5

9) Hole in Cable Compartment/Skirt

- Observe the TX for significant holes, usually located in areas of sever rust. (Figure 6)
- Options:
    i. YES
    ii. NO
    iii. REPAIRED
    iv. REPAIRS NEEDED

Figure 6

10) Lock Missing/Damaged

- Figure 7
- Options:
    i. YES
    ii. NO

Figure 7

11) Cooling Fins

- Figure 8
- Options:
    i. YES
    ii. NO

Figure 8

12) Paint Condition/Graffiti

- Observe TX for faded paint and graffiti (Figure 9)

Figure 9

- Options:
    i. GOOD
    ii. POOR
    iii. GRAFFITI

13) Lifting Bolts Attached

- Figure 10
- Options:
    i. YES
    ii. NO
    iii. REMOVED
    iv. PERMANENT LIFTING HOOKS

Figure 10

14) Hole from Live Oil Sampling

- Oil sampling holes are located inside the TX and thus require a lineman present in order to inspect
- Options:
    i. YES
    ii. NO

15) Foundation Condition

- Observe the TX's concrete foundation for the following. (Figure 11)
- Options:

GOOD	BAD	SUNK
		
TOO SMALL	**TILTED**	
		

Figure 11

16) Overall Transformer Condition

- Options:
  i. GOOD
  ii. FAIR
  iii. POOR
  iv. BAD

17) Comments

- Field dedicated to any relevant information not mentioned in the above fields
- Eg. Pole leaning, ground wire has been cut (wooden poles only), vegetation on pole, TX on wrong pole, etc.

18) Transformer Size

- Leave field blank if size is missing or unclear. (Figure 12)
- Listed in kVa

Figure 12

Note: If there is a TX name plate on the TX, zoom in and take a picture of it. Record the **TX serial number** (in the comments)**, the manufacturer, and the manufactured date** in the respective fields**.**

19) Manufacturer

- Located on the manufacturers plate.
- Leave field blank if size is missing or unclear.

20) Manufacturer Date

- Located on the manufacturers plate.
- Leave field blank if size is missing or unclear.

Note: If there is a TX name plate on the TX, zoom in and take a picture of it. Record the **TX serial number, the manufacturer, and the manufactured date.**

Collecting Pictures and Marking as Inspection Completed

Pictures must be taken of every transformer inspected. A picture of the **TX number** must be taken as well as **at least two pictures** of the TX itself from **different angles**, to show as much of the TX as possible. Any irregular observations should also be documented as pictures, eg. holes

Punch or notch an “Inspected/Sampled” sticker with the appropriate year. **Apply the sticker to a clean place on the TX** (stock #99376)

Section 3

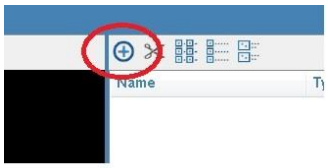
Post-Inspection

Attaching Pictures and Uploading

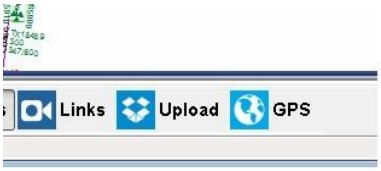
Once all TX have been inspected, you may proceed with attaching pictures to their corresponding redlines and then uploading the data:

1. Select a redline from the top left section and then click “Links” from the bottom of the window

2. Click the “+” at the top of the window and select the appropriate pictures to attach, then click “Continue”



3. Repeat above steps for all redlines
4. Once all photos have been attached, click “Upload” at the bottom the screen and “Upload” again at the bottom right
5. Give the program a few moments to complete the upload, then press continue and close the application



On returning to the office, dock the tablet and fill out the Sign Out/In sheet. Then inform the Records & Mapping Department that your tablet data is ready for uploading.

Congratulations! You have now successfully completed a Pad mount Transformer Inspection. Good luck in the future and stay safe!

Appendix A: Safety Requirements

enersource		CORPORATE POLICY	
SUBJECT	PERSONAL PROTECTIVE EQUIPMENT	NUMBER	200-5
DEPARTMENT	HEALTH, SAFETY & SECURITY	REVISED DATE	January 2014
REPLACES POL#	N/A	ORIGINAL DATE	January 2009

1.0 Purpose

To provide a corporate policy that outlines the requirements for the purchasing standard, inspection and maintenance and the wearing of personal protective equipment (PPE) as per the *Occupational Health & Safety Act*, Electrical Utilities Safety Rules and other applicable legislative requirements.

2.0 Scope

This procedure applies to all Enersource Corporation ("Enersource" or the "Company") Employees and those doing work for Enersource including contractors/subcontractors and consultants who perform or supervise work.

3.0 Roles and responsibilities

The Health, Safety, and Security Department (HS&S) is responsible for revising this policy as necessary. The HS&S department will assist Supervisors and Managers in selecting appropriate personal protective equipment for Employees.

Managers and Supervisors have the responsibility to ensure that each Employee has access to appropriate protective equipment. It is also the responsibility of the Supervisor, and the employer, to know the work hazards, select the appropriate controls and PPE, ensure that Employees are trained in the proper use and care of the equipment before using it, instructed when to use it and that the equipment is maintained in good working condition.

The Employee/contractor has the responsibility to use and wear the equipment in the proper manner to protect the worker against hazards to which they may be exposed.

4.0 Procedure

4.1. General

Personal protective equipment (PPE) is equipment worn by a worker to minimize exposure to specific occupational hazards. PPE does not reduce the hazard itself, nor does it guarantee total protection. Consideration should be given to the elimination or control of hazards at their source thereby eliminating the need for personal protective equipment. When the hazard cannot be removed or controlled adequately, PPE must be used.

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All personnel visiting work sites or in designated PPE areas, while not directly involved in doing the work, are expected to wear appropriate PPE.

- All PPE equipment must meet and be approved by the Canadian Standards Association (CSA);
- All PPE shall be inspected, maintained, repaired or replaced in accordance with the manufacturers' and the Company's guidelines;
- Department Supervisors and/or department Managers shall ensure the PPE is appropriate for the task before it is used; and
- PPE must not be altered.

If you are not sure when or where to use PPE "ASK YOUR SUPERVISOR".

4.2. Head Protection

4.2.1. All Employees shall wear , CSA Class E approved head protection, as supplied by Enersource, whenever:

- in work areas in the field;
- the potential of head injury exists, such as falling, flying or thrown objects or other harmful contacts;
- working on or around energized equipment;
- working on a project; and
- a procedure or area is designated as requiring head protection.

4.2.2. For maximum head protection:

- keep hat free of dirt, oil, grease or other conducting chemicals to prevent against electrical shock.

4.2.3. Replace head protection when:

- head protection has received a severe blow;
- shell and suspension is worn or damaged; and
- head protection has been painted or has inappropriate accessories attached to it.

4.2.4. Winter liners shall be made of flame resistant material.

4.2.5. Head protection should not be stored by a window because bright sunlight will cause faster deterioration.

4.2.6. Safety helmets shall be CSA, D.O.T or SNELL approved and shall be worn while operating or riding on All Terrain Vehicles (ATV).

4.3. Eye and Face Protection

4.3.1. All employees shall wear approved eye protection (i.e., safety glasses, prescription, goggles, or face shields) as supplied by Enersource, whenever the risk of hazardous substance or flying particles exists and whenever a procedure or area is designated as requiring eye protection. Standards for selecting appropriate eye protection shall be in accordance with the CSA Standard and as specified in a procedure or in a designated area.

4.3.2. Contact lenses are not recommended for any workplace that requires eye protection.

4.3.3. Replace glasses if they become damaged, worn or are missing parts such as side shields.

4.3.4. Welding Glasses / Face Shield

- All employees involved with welding activities or using cutting torches, whether doing the actual welding/cutting or working in the same work area, shall wear eye protection approved for the particular welding/cutting environments (i.e., arc welding as opposed to oxygen welding).

4.3.5. Electrical Flash Glasses

- All employees working on live electrical equipment shall wear appropriate eye protection in all circumstances where there is a possibility of an electrical flash; and

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- Lenses used in eye protection may be clear or tinted. Clear scratch resistant polycarbonate lenses and clear plastic lenses (CR 39) having UV protection of 380 nm or greater, filter ultraviolet (UVA & UVB) rays sufficiently in all light conditions. If tinted lenses are used, they must allow sufficient light transmission to allow work to be performed safely.

4.4. Foot Protection

4.4.1. All employees shall wear CSA-approved safety footwear when potential injury to the feet exists, when conducting field work or in designated areas. CSA approval shall be of a Grade 1 "Green Triangle", puncture resistant, Omega electrical insulated rating, and anti-slip sole. Footwear design will be a minimum of 150 mm (6 in) in height.

Note: Under certain circumstances, and for specific job classifications, other types of safety footwear may be approved upon consultation with the supervisor and the Health, Safety, and Security department, such as meter readers conducting reading of meters in residential areas only.

4.4.2. Safety footwear shall be laced and tied at all times.

4.4.3. In an effort to reduce injuries such as slipping, inspect footwear regularly and replace them if they become worn, damaged, or saturated in chemicals.

4.4.4. Protection against electrical shock decreases as the sole of the safety footwear is worn, contaminated with chemicals, or imbedded with conducting materials.

4.4.5. In icy conditions field staff should wear approved ice cleats supplied by the Company.

4.5. Hearing Protection

4.5.1. All employees are required to wear CSA-approved hearing protection when in areas, or using equipment, where exposure to noise is in excess of 85 decibels. As a guideline, when the noise level is unknown, it is recommended to wear hearing protection both on and off the job, when it is difficult to converse at approximately three feet apart..

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4.5.2. It is the responsibility of the supervisor to establish the potential noise exposures and appropriate control measures for employees working in their department.

4.5.3. Before using any hearing protection for the first time, the user must be instructed on its proper use and care by the department Supervisor or with the assistance of the HS&S department.

4.5.4. Replace hearing protection when:

- the frame and shell is deteriorating; or
- the noise dampening material starts to lose its flexibility or seal

4.6. Hand Protection

4.6.1. Appropriate gloves, supplied by Enersource, shall be worn by employees to prevent injuries such as cuts, punctures, abrasions, or irritation due to physical, chemical, biological, or electrical exposure.

4.6.2. Employees who are required to wear electrically rated rubber gloves shall be trained in the proper class selection, and the care and use of rubber gloves and leather protectors.

4.6.3. CSA approved electrically rated rubber gloves or other rubber protective equipment must be used whenever working on live electrical apparatus, following the 'ground to ground' or 'lock to lock' rule.

4.6.4. Chemical gloves shall be selected in accordance with Material Safety Data Sheet (MSDS) information supplied by the manufacturer of the product or chemical.

4.6.5. Jewellery or rings shall be removed as per section 4.7.5.

4.6.6. Specific rules shall be adhered to as stipulated in the current Electrical Utility Safety Rule Book and Safe Practice Guides.

4.7. Hazardous/Protective Clothing

4.7.1. All employees will wear full length pants at work, unless they are working in an office environment.

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Note: *Under certain circumstances, for contracted metering job classifications, other type of clothing may be approved by the Enersource Supervisor and in consultation with the Health, Safety, and Security department.*

4.7.2. Reflective clothing with silver stripes encircling each arm and leg must be worn by employees who may be endangered by vehicular traffic during night time hours.

4.7.3. All employees working on or around energized electrical equipment shall wear approved flame resistant clothing with long sleeved shirts extended to the wrists.

4.7.4. Employees shall wear long sleeved shirts with the sleeves extended to the wrists when working on energized equipment or when working aloft on a pole or structure. Work shirts shall not be removed by any employee as they provide protection from scratches and abrasions.

4.7.5. Jewellery or rings shall not be worn while performing any type of mechanical, electrical or other type work where the wearing of such items would constitute a hazard.

4.7.6. Long hair, including facial hair, must be suitably confined where it would present an increased risk of injury.

4.7.7. Chemical resistant aprons shall be worn when testing and working on battery banks or as required by the MSDS.

4.8. Respiratory Equipment

4.8.1. All employees shall wear CSA approved respiratory equipment, as supplied by Enersource, whenever contamination of the air exists because of hazardous fumes, vapours, gases, dusts or particulates.

4.8.2. Whenever an area or type or work is designated as requiring respiratory protection.

4.8.3. As directed by the Workplace Hazardous Materials Information System (WHMIS) MSDS Sheet and/or the department Supervisor.

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4.8.4. All employees are responsible for maintaining respirators in a clean condition, wearing it in designated areas or during job tasks and notifying their Supervisor if the respirator requires repairs.

Note: No one shall conduct a task that requires the use of a respirator that has not been properly trained and fit tested.

4.8.5. Disposable respirator:

- Disposable respirators shall not be used as a barrier to vapours, fumes and gases unless specifically designed for that use;
- Disposable dust masks shall be disposed of and a fresh one used whenever air cannot be drawn through it easily or, at least one fresh mask for each day of use; and
- The fit and seal of disposable respirators must be checked and the employee must be properly trained in its use before using the respirator.

4.8.6. Cartridge type respiratory protection:

Cartridge type respiratory protection will be used whenever directed by the WHMIS MSDS Sheet, a procedure and/or the department Supervisor.

- A cartridge type respirator will be properly fitted to the individual and the Employee will be properly trained in its use, care, and maintenance before using the respirator;
- The correct type of cartridge must be used according to the nature of the contaminant; and
- The fit and seal of cartridge type respirators must be checked before every use.

4.9. Fall Protection

4.9.1. Personal Protective Equipment is required when a worker is exposed to any of the following hazards:

- Falling more than 3 meters;
- Falling more than 1.2 meters, if the work area is used as a path for a wheelbarrow or similar equipment;
- Falling into operating machinery;

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- Falling into water or another liquid;
- Falling into or onto a hazardous substance or object; and
- Falling through an opening on a work surface.

4.9.2. A worker shall be adequately protected by a guardrail system unless it is not reasonably possible to install a guardrail system or the guardrail cannot provide adequate protection. In those circumstances, at least one of the following fall protection methods shall be used:

- Travel restraint system;
- Fall restricting system;
- Fall arrest system; or
- Safety net.

4.9.3. Employees who may use a fall protection system must be trained in its use and given oral and written instructions by a competent person.

4.9.4. Travel Restraint System

- A travel restraint system shall consist of a full body harness with adequate attachment points or a safety belt;
- The full body harness or safety belt shall be attached by a lifeline or lanyard to a fixed support that meets the requirements of the *Occupational Health and Safety Act* (OHSA);
- The travel restraint system shall be inspected by a competent worker before each use; and
- If a component of the travel restraint system is found to be defective on inspection, the defective component shall immediately be taken out of service.

4.9.5. Fall Restricting System

A fall restricting system that is not designed for use in wood pole climbing shall consist of an assembly of components that is:

- Attached to an independent fixed support that meets the requirements of the OHSA; and
- Designed and arranged in accordance with the manufacturer's instructions so that a worker's free fall distance does not exceed 0.6 meters.

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A fall restricting system that is designed for use in wood pole climbing shall:

- Consist of an assembly of components that is designed and arranged in accordance with the manufacturer's instructions; and
- Be inspected by a competent worker before each use. If a component of the fall restricting system is found to be defective on inspection, the component shall be taken out of service immediately. If a worker who is using the fall restricting system falls or slips more than the distance stated in the OHSA, the system shall be immediately removed from service and shall not be used again by a worker unless all components of the system have been certified by the manufacturer as being safe for re-use.

4.9.6. Fall Arrest System

- A fall arrest system shall consist of a full body harness with adequate attachment points and a lanyard equipped with a shock absorber or similar device;
- The system shall be attached by a lifeline or by the lanyard to an independent fixed support that meets the requirements of the OHSA;
- The fall arrest system shall be arranged so that a worker cannot hit the ground or an object or level below the work;
- It shall not include a shock absorber if wearing or using one could cause a worker to hit the ground or an object or level below the work;
- The system shall not subject a worker who falls to a peak fall arrest force greater than 8 kilonewtons;
- It shall be inspected by a competent worker before each use;
- If a component of the fall arrest system is found to be defective on inspection, the defective component shall immediately be taken out of service; and
- If a worker who is using the fall arrest system falls, the system shall be immediately removed from service and shall not be used again by a worker unless all components of the system have been certified by the manufacturer as being safe for re-use.

4.9.7. Annual Inspection and Recording of Fall Protection Equipment

- All fall protection equipment will have a Radio Frequency Identification Device attached to it for identification purposes and to act as a link to the JD Edwards (JDE) software;

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- All fall protection equipment will be inspected on an annual basis by a competent person;
- The equipment's history and pertinent manufacturer information will be available to the competent person through the scanning of the RFID device in the JDE software; and
- Inspection results will be recorded in the JDE software system.

Note: Several pieces of the Forestry department's fall protection equipment does not allow for the physical attachment of the RFID device to the specific piece of equipment. In these instances, a separate recording system using pictures and/or serial numbers along with the RFID device is being used, i.e., carabineers, micro pulleys, and figure eights.

5.0 FORMS

None

6.0 DEFINITIONS

RFID	is the wireless use of radio-frequency electromagnetic fields to transfer data, for the purposes of automatically identifying and tracking tags attached to objects.

Enersource Hydro Mississauga

Asset Management

Pole Transformer Inspections

Training Manual

Table of Contents

Section 1

Pre-Inspection

Safety

Safety is always our first concern. Be aware of your surroundings and look for hazards. Always contact your supervisor with any questions or concerns. All employees have the right to refuse work if they believe it is unsafe. **If you are not sure it is safe, do not proceed with it**. Be cautious of broken/missing ground wires. Do not touch them as they could carry a dangerous voltage. Report all dangerous conditions to the control room immediately and to your supervisor. Control room number: 905-283-4300

Required Equipment

- Hardhat
- Safety glasses, **clear and dark**
- Enersource high visibility clothing
- Sunscreen
- Water and Gatorade type drinks
- Cooler
- 5ft ladder
- Panasonic ToughPAD tablet
- Camera
- Steel-toe boots with **green patch and orange omega** symbol
- Band-it tool
- Band-it bands, clips, and plates
- TX number stickers
- Safety gloves (for banding)
- Cutters and punch for inspection stickers

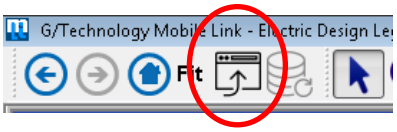
Logging In and Configuring Tablet Software

Before heading out to site check tablet battery level and whether they are in good working condition or not. Fill out Sign Out/In sheet when taking out the tablets.

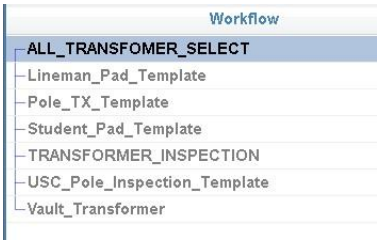
1. Open mobile link by double-clicking the icon on your desktop.

2. Log onto the application.

3. Select "Open Redline Document" icon on the icon bar (5th from left).



4. Select the Workflow type for the list of available templates.



   - Be sure to select the appropriate template for what you are inspecting.
   - "ALL_TRANSFOMER_SELECT" recommended for Pole Mount, Pad Mount, and Vault Inspections.
   - Previous Redline Documents will appear under the selected Workflow if you wish to resume an earlier inspection. If not, proceed to step 5.

5. Press the "New" button on the left corner of the screen. This will initiate the inspection template in the MobileLink viewer.

Approaching Transformer

1. Park vehicle as close to TX as possible.
   - Avoid parking on high-speed roads (≥60km/h) unless free designated parking available.
   - Activate warning lights if parked on roadside.
   - Reverse park into all parking spots.
2. Place pylons in front and behind vehicle.
   - Pylon behind not necessary if no other parking spots behind vehicle.
3. Turn off and lock vehicle.
   - Not necessary if parked adjacent to TX.
4. Be sure to wear hard hat, safety boots, and high-visibility safety clothing for all inspections.

Inspecting in Customer Backyards

Some transformers will be located in customer backyards. To approach these, first **knock on the front door and explain your purpose** to the customer. Proceed if the customer approves. If the **customer does not answer the door, proceed anyway**. On the way in an out of the property, be mindful of animals and try not to disturb any of the customer's belongings. Take pictures of anything that the maintenance crew may come in contact with in the backyard en route to the TX eg. cracked tiles, fragile décor etc. This is to ensure the state of the property is documented before the crew begins work.

Section 2

Safety and Transformer Inspection

GPS Data and TX Selection

Once safely parked, proceed with the inspection:

1. Move toward the pole and stand at the base, then click the "GPS" button at the bottom the map.

2. Under the "Workflow" section on the left, expand the "Inspect" bullet and select "Pole Transformer".

3. Click "Inspect Pole Transformer" at the bottom right of the "Workflow" section and then select the transformer you wish to inspect.

General Inspection Tab

Only the listed attributes below are necessary to complete inspection, disregard other fields. When referencing the TX, the "front" is the side facing the street, the "back" is the side facing the pole.

1) Nomenclature Match

- Ensure TX number in GNet matches number tagged onto pole. (Figure 1)
  - i. Tagged number may or may not include "TX", still confirmed as a match.
- Options:
  - i. YES
  - ii. NO
  - iii. MISSING
- New tag must be banded onto pole if number is wrong/missing.

Figure 1

2) *T/L Sticker*

- Figure 2
- Options:
    i. YES
    ii. NO

Figure 2

3) Address

- Fill in address most adjacent to the TX, eg. “7033 Teleford Way”.
- Provide relative location if no address is adjacent, eg. “NE corner of Derry Rd E & Airport Rd”.

4) *Pole Condition*

- Observe pole thoroughly for cracks, splitting, rotting, and leaning. “Good” poles are in pristine condition.
- Options:
    i. GOOD
    ii. FAIR
    iii. POOR
    iv. REPLACEMENT REQUIRED
    v. REPLACE ASAP

5) *Transformer/Pole Access*

- Judge whether TX is easily accessible by outside crews, eg. Bucket truck.
- Options:
    i. GOOD
    ii. POOR
    iii. REQUIRES DOUBLE BUCKET
    iv. CUSTOMER PROPERTY
    v. NO ACCESS

6) Cutout Type

- Sizes apply to both porcelain and polymer cutouts. (Figure 3)
- Options:

100A PROCELAIN	200A PORCELAIN	SMD-20 PORCELAIN	CL FUSE
			 
100A POLYMER	SMD-20 POLYMER	FAULT TAMER	
			

Figure 3

7) Cutout Material

- Figure 3
- Options:
    i. PORCELAIN
    ii. POLYMER

8) Lightning Arrestor

- Figure 4
- Options:
    i. YES
    ii. NO
    iii. REPLACEMENT REQUIRED

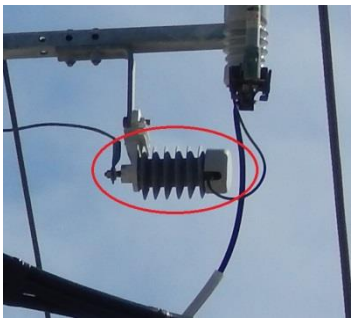


Figure 4

9) Animal Protection

- Figure 5
- Options:

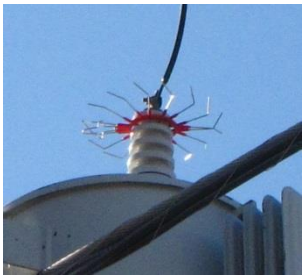
BUSHING COVER	STATIC GUARD
	

Figure 5

10) Cooling Fins

- Figure 6
- Options:
    i. YES
    ii. NO

Figure 6a

Figure 6b

11) Internal Fault Detector

- Located on the back upper rim. (Figure 7)
- Options:
    i. YES
    ii. NO

Figure 7

12) Condition of Drop Leads

- Assess drop leads for damage.
- Options:
    i. GOOD
    ii. FAIR
    iii. POOR
    iv. BAD

13) Condition of Connections

- Ensure all connections are secure and assess for damage.
- Options:
    i. GOOD
    ii. FAIR
    iii. POOR
    iv. BAD

14) Secondary Conductor Type

- Figure 8
- Options:

OPEN WIRE	SPUN BUS
	

Figure 8

15) Transformer Size

- Located on the front of the TX. (Figure 9)
- Leave field blank if size is missing or unclear.
- Listed in kVa.

Figure 9

Transformer Inspection Tab

16) Tap Changer

- Located at the back middle of the TX. (Figure 10)
- Options:
    i. YES
    ii. NO

Figure 10a

Figure 10b

17) Hole from Previous Live Oil Sample

- Located just below the top brim of the TX. (Figure 11)
- Options:
    i. YES
    ii. NO

Figure 11

18) Transformer Rust

- Rust can appear on any area of the TX. (Figure 12)
- Options:
    i. No
    ii. Yes-RED
    iii. Yes-WHITE
    iv. Yes-BLUE
    v. Yes-ALL

Figure 12

19) Sign of Oil Leak

- Observe bottom brim for dark spots.
- Options:
    i. No
    ii. Yes-RED
    iii. Yes-WHITE
    iv. Yes-BLUE
    v. Yes-ALL

20) Oil Leak Severity

- Figure 13
- Options:

MINOR	MODERATE	MAJOR
		

Figure 13

21) Sign of Boiling Over

- Observe top brim for chemical stains. (Figure 14)
- Options:
    i. No
    ii. Yes-RED
    iii. Yes-WHITE
    iv. Yes-BLUE
    v. Yes-ALL

Figure 14

22) Comments

- Field dedicated to any relevant information not mentioned in the above fields
- Eg. Pole leaning, ground wire has been cut (wooden poles only), vegetation on pole, TX on wrong pole, etc

Note: If there is a TX name plate on the TX, zoom in and take a picture of it. Record the **TX serial number, the manufacturer, and the manufactured date.**

Collecting Pictures and Marking as Inspection Completed

Pictures must be taken of every transformer inspected. A picture of the **TX number** must be taken as well as **at least two pictures** of the TX itself from **different angles**, to show as much of the TX as possible. Any irregular observations should also be documented as pictures, eg. holes

Punch or notch an "Inspected/Sampled" sticker with the appropriate year. **Apply the sticker to a clean place on the TX** (stock #99376)

Section 3

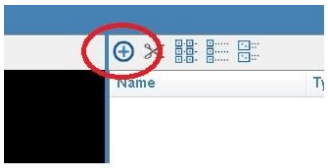
Post-Inspection

Attaching Pictures and Uploading

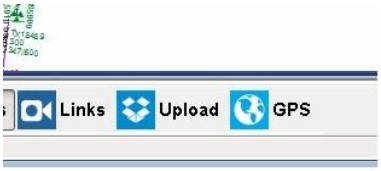
Once all TX have been inspected, you may proceed with attaching pictures to their corresponding redlines and then uploading the data:

1. Select a redline from the top left section and then click “Links” from the bottom of the window

2. Click the “+” at the top of the window and select the appropriate pictures to attach, then click “Continue”



3. Repeat above steps for all redlines
4. Once all photos have been attached, click “Upload” at the bottom the screen and “Upload” again at the bottom right
5. Give the program a few moments to complete the upload, then press continue and close the application



On returning to the office, dock the tablet and fill out the Sign Out/In sheet. Then inform the Records & Mapping Department that your tablet data is ready for uploading.

Congratulations! You have now successfully completed a Pole Transformer Inspection. Good luck in the future and stay safe!

Appendix A: Safety Requirements

enersource		CORPORATE POLICY	
SUBJECT	PERSONAL PROTECTIVE EQUIPMENT	NUMBER	200-5
DEPARTMENT	HEALTH, SAFETY & SECURITY	REVISED DATE	January 2014
REPLACES POL#	N/A	ORIGINAL DATE	January 2009

1.0 Purpose

To provide a corporate policy that outlines the requirements for the purchasing standard, inspection and maintenance and the wearing of personal protective equipment (PPE) as per the *Occupational Health & Safety Act*, Electrical Utilities Safety Rules and other applicable legislative requirements.

2.0 Scope

This procedure applies to all Enersource Corporation ("Enersource" or the "Company") Employees and those doing work for Enersource including contractors/subcontractors and consultants who perform or supervise work.

3.0 Roles and responsibilities

The Health, Safety, and Security Department (HS&S) is responsible for revising this policy as necessary. The HS&S department will assist Supervisors and Managers in selecting appropriate personal protective equipment for Employees.

Managers and Supervisors have the responsibility to ensure that each Employee has access to appropriate protective equipment. It is also the responsibility of the Supervisor, and the employer, to know the work hazards, select the appropriate controls and PPE, ensure that Employees are trained in the proper use and care of the equipment before using it, instructed when to use it and that the equipment is maintained in good working condition.

The Employee/contractor has the responsibility to use and wear the equipment in the proper manner to protect the worker against hazards to which they may be exposed.

4.0 Procedure

4.1. General

Personal protective equipment (PPE) is equipment worn by a worker to minimize exposure to specific occupational hazards. PPE does not reduce the hazard itself, nor does it guarantee total protection. Consideration should be given to the elimination or control of hazards at their source thereby eliminating the need for personal protective equipment. When the hazard cannot be removed or controlled adequately, PPE must be used.

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All personnel visiting work sites or in designated PPE areas, while not directly involved in doing the work, are expected to wear appropriate PPE.

- All PPE equipment must meet and be approved by the Canadian Standards Association (CSA);
- All PPE shall be inspected, maintained, repaired or replaced in accordance with the manufacturers' and the Company's guidelines;
- Department Supervisors and/or department Managers shall ensure the PPE is appropriate for the task before it is used; and
- PPE must not be altered.

If you are not sure when or where to use PPE "ASK YOUR SUPERVISOR".

4.2. Head Protection

4.2.1. All Employees shall wear , CSA Class E approved head protection, as supplied by Enersource, whenever:

- in work areas in the field;
- the potential of head injury exists, such as falling, flying or thrown objects or other harmful contacts;
- working on or around energized equipment;
- working on a project; and
- a procedure or area is designated as requiring head protection.

4.2.2. For maximum head protection:

- keep hat free of dirt, oil, grease or other conducting chemicals to prevent against electrical shock.

4.2.3. Replace head protection when:

- head protection has received a severe blow;
- shell and suspension is worn or damaged; and
- head protection has been painted or has inappropriate accessories attached to it.

4.2.4. Winter liners shall be made of flame resistant material.

4.2.5. Head protection should not be stored by a window because bright sunlight will cause faster deterioration.

4.2.6. Safety helmets shall be CSA, D.O.T or SNELL approved and shall be worn while operating or riding on All Terrain Vehicles (ATV).

4.3. Eye and Face Protection

4.3.1. All employees shall wear approved eye protection (i.e., safety glasses, prescription, goggles, or face shields) as supplied by Enersource, whenever the risk of hazardous substance or flying particles exists and whenever a procedure or area is designated as requiring eye protection. Standards for selecting appropriate eye protection shall be in accordance with the CSA Standard and as specified in a procedure or in a designated area.

4.3.2. Contact lenses are not recommended for any workplace that requires eye protection.

4.3.3. Replace glasses if they become damaged, worn or are missing parts such as side shields.

4.3.4. Welding Glasses / Face Shield

- All employees involved with welding activities or using cutting torches, whether doing the actual welding/cutting or working in the same work area, shall wear eye protection approved for the particular welding/cutting environments (i.e., arc welding as opposed to oxygen welding).

4.3.5. Electrical Flash Glasses

- All employees working on live electrical equipment shall wear appropriate eye protection in all circumstances where there is a possibility of an electrical flash; and

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- Lenses used in eye protection may be clear or tinted. Clear scratch resistant polycarbonate lenses and clear plastic lenses (CR 39) having UV protection of 380 nm or greater, filter ultraviolet (UVA & UVB) rays sufficiently in all light conditions. If tinted lenses are used, they must allow sufficient light transmission to allow work to be performed safely.

4.4. Foot Protection

4.4.1. All employees shall wear CSA-approved safety footwear when potential injury to the feet exists, when conducting field work or in designated areas. CSA approval shall be of a Grade 1 "Green Triangle", puncture resistant, Omega electrical insulated rating, and anti-slip sole. Footwear design will be a minimum of 150 mm (6 in) in height.

Note: Under certain circumstances, and for specific job classifications, other types of safety footwear may be approved upon consultation with the supervisor and the Health, Safety, and Security department, such as meter readers conducting reading of meters in residential areas only.

4.4.2. Safety footwear shall be laced and tied at all times.

4.4.3. In an effort to reduce injuries such as slipping, inspect footwear regularly and replace them if they become worn, damaged, or saturated in chemicals.

4.4.4. Protection against electrical shock decreases as the sole of the safety footwear is worn, contaminated with chemicals, or imbedded with conducting materials.

4.4.5. In icy conditions field staff should wear approved ice cleats supplied by the Company.

4.5. Hearing Protection

4.5.1. All employees are required to wear CSA-approved hearing protection when in areas, or using equipment, where exposure to noise is in excess of 85 decibels. As a guideline, when the noise level is unknown, it is recommended to wear hearing protection both on and off the job, when it is difficult to converse at approximately three feet apart..

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4.5.2. It is the responsibility of the supervisor to establish the potential noise exposures and appropriate control measures for employees working in their department.

4.5.3. Before using any hearing protection for the first time, the user must be instructed on its proper use and care by the department Supervisor or with the assistance of the HS&S department.

4.5.4. Replace hearing protection when:

- the frame and shell is deteriorating; or
- the noise dampening material starts to lose its flexibility or seal

4.6. Hand Protection

4.6.1. Appropriate gloves, supplied by Enersource, shall be worn by employees to prevent injuries such as cuts, punctures, abrasions, or irritation due to physical, chemical, biological, or electrical exposure.

4.6.2. Employees who are required to wear electrically rated rubber gloves shall be trained in the proper class selection, and the care and use of rubber gloves and leather protectors.

4.6.3. CSA approved electrically rated rubber gloves or other rubber protective equipment must be used whenever working on live electrical apparatus, following the 'ground to ground' or 'lock to lock' rule.

4.6.4. Chemical gloves shall be selected in accordance with Material Safety Data Sheet (MSDS) information supplied by the manufacturer of the product or chemical.

4.6.5. Jewellery or rings shall be removed as per section 4.7.5.

4.6.6. Specific rules shall be adhered to as stipulated in the current Electrical Utility Safety Rule Book and Safe Practice Guides.

4.7. Hazardous/Protective Clothing

4.7.1. All employees will wear full length pants at work, unless they are working in an office environment.

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Note: *Under certain circumstances, for contracted metering job classifications, other type of clothing may be approved by the Enersource Supervisor and in consultation with the Health, Safety, and Security department.*

4.7.2. Reflective clothing with silver stripes encircling each arm and leg must be worn by employees who may be endangered by vehicular traffic during night time hours.

4.7.3. All employees working on or around energized electrical equipment shall wear approved flame resistant clothing with long sleeved shirts extended to the wrists.

4.7.4. Employees shall wear long sleeved shirts with the sleeves extended to the wrists when working on energized equipment or when working aloft on a pole or structure. Work shirts shall not be removed by any employee as they provide protection from scratches and abrasions.

4.7.5. Jewellery or rings shall not be worn while performing any type of mechanical, electrical or other type work where the wearing of such items would constitute a hazard.

4.7.6. Long hair, including facial hair, must be suitably confined where it would present an increased risk of injury.

4.7.7. Chemical resistant aprons shall be worn when testing and working on battery banks or as required by the MSDS.

4.8. Respiratory Equipment

4.8.1. All employees shall wear CSA approved respiratory equipment, as supplied by Enersource, whenever contamination of the air exists because of hazardous fumes, vapours, gases, dusts or particulates.

4.8.2. Whenever an area or type or work is designated as requiring respiratory protection.

4.8.3. As directed by the Workplace Hazardous Materials Information System (WHMIS) MSDS Sheet and/or the department Supervisor.

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4.8.4. All employees are responsible for maintaining respirators in a clean condition, wearing it in designated areas or during job tasks and notifying their Supervisor if the respirator requires repairs.

Note: No one shall conduct a task that requires the use of a respirator that has not been properly trained and fit tested.

4.8.5. Disposable respirator:

- Disposable respirators shall not be used as a barrier to vapours, fumes and gases unless specifically designed for that use;
- Disposable dust masks shall be disposed of and a fresh one used whenever air cannot be drawn through it easily or, at least one fresh mask for each day of use; and
- The fit and seal of disposable respirators must be checked and the employee must be properly trained in its use before using the respirator.

4.8.6. Cartridge type respiratory protection:

Cartridge type respiratory protection will be used whenever directed by the WHMIS MSDS Sheet, a procedure and/or the department Supervisor.

- A cartridge type respirator will be properly fitted to the individual and the Employee will be properly trained in its use, care, and maintenance before using the respirator;
- The correct type of cartridge must be used according to the nature of the contaminant; and
- The fit and seal of cartridge type respirators must be checked before every use.

4.9. Fall Protection

4.9.1. Personal Protective Equipment is required when a worker is exposed to any of the following hazards:

- Falling more than 3 meters;
- Falling more than 1.2 meters, if the work area is used as a path for a wheelbarrow or similar equipment;
- Falling into operating machinery;

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- Falling into water or another liquid;
- Falling into or onto a hazardous substance or object; and
- Falling through an opening on a work surface.

4.9.2. A worker shall be adequately protected by a guardrail system unless it is not reasonably possible to install a guardrail system or the guardrail cannot provide adequate protection. In those circumstances, at least one of the following fall protection methods shall be used:

- Travel restraint system;
- Fall restricting system;
- Fall arrest system; or
- Safety net.

4.9.3. Employees who may use a fall protection system must be trained in its use and given oral and written instructions by a competent person.

4.9.4. Travel Restraint System

- A travel restraint system shall consist of a full body harness with adequate attachment points or a safety belt;
- The full body harness or safety belt shall be attached by a lifeline or lanyard to a fixed support that meets the requirements of the *Occupational Health and Safety Act* (OHSA);
- The travel restraint system shall be inspected by a competent worker before each use; and
- If a component of the travel restraint system is found to be defective on inspection, the defective component shall immediately be taken out of service.

4.9.5. Fall Restricting System

A fall restricting system that is not designed for use in wood pole climbing shall consist of an assembly of components that is:

- Attached to an independent fixed support that meets the requirements of the OHSA; and
- Designed and arranged in accordance with the manufacturer's instructions so that a worker's free fall distance does not exceed 0.6 meters.

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A fall restricting system that is designed for use in wood pole climbing shall:

- Consist of an assembly of components that is designed and arranged in accordance with the manufacturer's instructions; and
- Be inspected by a competent worker before each use. If a component of the fall restricting system is found to be defective on inspection, the component shall be taken out of service immediately. If a worker who is using the fall restricting system falls or slips more than the distance stated in the OHSA, the system shall be immediately removed from service and shall not be used again by a worker unless all components of the system have been certified by the manufacturer as being safe for re-use.

4.9.6. Fall Arrest System

- A fall arrest system shall consist of a full body harness with adequate attachment points and a lanyard equipped with a shock absorber or similar device;
- The system shall be attached by a lifeline or by the lanyard to an independent fixed support that meets the requirements of the OHSA;
- The fall arrest system shall be arranged so that a worker cannot hit the ground or an object or level below the work;
- It shall not include a shock absorber if wearing or using one could cause a worker to hit the ground or an object or level below the work;
- The system shall not subject a worker who falls to a peak fall arrest force greater than 8 kilonewtons;
- It shall be inspected by a competent worker before each use;
- If a component of the fall arrest system is found to be defective on inspection, the defective component shall immediately be taken out of service; and
- If a worker who is using the fall arrest system falls, the system shall be immediately removed from service and shall not be used again by a worker unless all components of the system have been certified by the manufacturer as being safe for re-use.

4.9.7. Annual Inspection and Recording of Fall Protection Equipment

- All fall protection equipment will have a Radio Frequency Identification Device attached to it for identification purposes and to act as a link to the JD Edwards (JDE) software;

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- All fall protection equipment will be inspected on an annual basis by a competent person;
- The equipment's history and pertinent manufacturer information will be available to the competent person through the scanning of the RFID device in the JDE software; and
- Inspection results will be recorded in the JDE software system.

Note: Several pieces of the Forestry department's fall protection equipment does not allow for the physical attachment of the RFID device to the specific piece of equipment. In these instances, a separate recording system using pictures and/or serial numbers along with the RFID device is being used, i.e., carabineers, micro pulleys, and figure eights.

5.0 FORMS

None

6.0 DEFINITIONS

RFID	is the wireless use of radio-frequency electromagnetic fields to transfer data, for the purposes of automatically identifying and tracking tags attached to objects.

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Asset Management

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Section 1

Pre-Inspection

Safety

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Vaults can only be entered under the supervision of a linesman. When inside you will be working around dangerous live equipment so **avoid physical contact** with any equipment while inside the vault.

Required Equipment

- Hardhat
- Safety glasses, **clear and dark**
- Enersource high visibility clothing
- Sunscreen
- Water and Gatorade type drinks
- Cooler
- 5ft ladder
- Panasonic ToughPAD tablet
- Camera
- Hammer and crow bar
- Bolt cutters and new padlocks
- Steel-toe boots with **green patch and orange omega** symbol
- TX number stickers
- Colored phase stickers

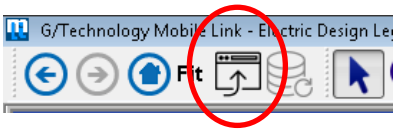
Logging In and Configuring Tablet Software

Before heading out to site check tablet battery level and whether they are in good working condition or not. Fill out Sign Out/In sheet when taking out the tablets.

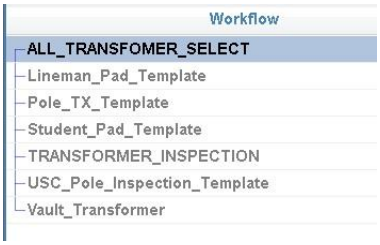
1. Open mobile link by double-clicking the icon on your desktop

2. Log onto the application

3. Select "Open Redline Document" icon on the icon bar (5th from left)



4. Select the Workflow type for the list of available templates



   - Be sure to select the appropriate template for what you are inspecting
   - "ALL_TRANSFOMER_SELECT" recommended for Pole Mount, Pad Mount, and Vault Inspections
   - Previous Redline Documents will appear under the selected Workflow if you wish to resume an earlier inspection. If not, proceed to step 5

5. Press the "New" button on the left corner of the screen. This will initiate the inspection template in the MobileLink viewer

Approaching and Leaving Vaults

1. Park vehicle as close to vault as possible
    - Avoid parking on high-speed roads (≥60km/h) unless free designated parking available
    - Activate warning lights if parked on roadside
    - Reverse park into all parking spots
2. Place pylons in front and behind vehicle
    - Pylon behind not necessary if no other parking spots behind vehicle
3. Turn off and lock vehicle
    - Not necessary if parked adjacent to TX
4. Be sure to wear hard hat, safety boots, and high-visibility FR clothing for all inspections
5. Allow the lineman to open the door and observe the condition of the vault before entering
6. Avoid physically touching any equipment while inside
7. Close and lock vault door when leaving

Section 2

Safety and Transformer Inspection

GPS Data and TX Selection

Once safely parked, proceed with the inspection:

1. Move toward the pole and stand at the base, then click the "GPS" button at the bottom the map

2. Under the "Workflow" section on the left, expand the "Inspect" bullet and select "Pole Transformer"

3. Click "Inspect Vault Transformer" at the bottom right of the "Workflow" section and then select the transformer you wish to inspect

Vault Inspection Tab

Only the listed attributes below are necessary to complete inspection, disregard other fields. When referencing the TX, the "front" is the side facing the street, the "back" is the side facing the pole.

1) Nomenclature Match

- Ensure Vault number in GNet matches number tagged on the door. (Figure 1)
    i. Tagged number may or may not include "TX", still confirmed as a match
- Options:
    i. YES
    ii. NO

Figure 1

- Apply new stickers for wrong/missing TX numbers.

2) Danger Sign on Door

- A "High Voltage" warning sign should be clearly visible on the vault door.
- Options:
    i. YES
    ii. NO

3) Address

- Fill in address most adjacent to the vault, eg. "7033 Teleford Way".
- Provide relative location if no address is adjacent, eg. "NE corner of Derry Rd E & Airport Rd".

4) Vault Access/Location

- Options:
    i. OUTSIDE ACCESS
    ii. INSIDE ACCESS
    iii. BASEMENT LEVEL
    iv. PARKING GARAGE
    v. BLOCKED ACCESS

5) Stairs Condition

- When moving to underground transformers observe the stairs for damage.
- Options:
    i. GOOD
    ii. FAIR
    iii. POOR
    iv. REPAIRS REQUIRED

6) Condition of Vault Doors/Lock

- Some padlocks on vault doors cannot be open with the linesman's keys. These locks need to be cut by bolt cutters and replaced once the inspection is completed.
- Some vault doors are very difficult to open. Be careful when using the hammer and crowbar to open these doors.
- Options:
    i. GOOD
    ii. FAIR
    iii. REPAIRS REQUIRED
    iv. REPLACEMENT REQUIRED
    v. DOES NOT LOCK

7) Vault Size

- Options:
    i. LARGE
    ii. MEDIUM
    iii. SMALL
    iv. VERY SMALL

8) Vent/Lourves Condition

- All vaults should be ventilated. Examine these vents for blockage. Lineman should enter a vault first to insure the air inside is clean. **Do not** enter a vault that is not ventilated, this is consider a confined space and very dangerous. (Figure 2)
- Options:
    i. GOOD
    ii. FAIR
    iii. POOR
    iv. REPAIRS REQUIRED

Figure 2

9) Drain Condition

- Options:

GOOD	FAIR	PLUGGED
		

Figure 3

10) Water in Vault

- Options:
    i. YES
    ii. NO

11) Light Bulbs Burnt Out

- Switch the lights on in the vault to ensure the bulbs are working

- Options:
    i. YES
    ii. NO

12) Vault Cleaning Required

- Options:
    i. NO
    ii. MINOR
    iii. MODERATE
    iv. MAJOR
    v. REMOVE SPARE EQUIPMENT

13) Cable Termination Type

- This field should include the termination types at both ends of the primary. If there are two different types, include both in the field with an "&" in between.
- Options:

ELBOW	TAPE STRESS CONE	COLD SHRINK STRESS CONE
		

Figure 4

14) Termination/Bushing Condition

- Assess the terminations and bushings for damage or unraveling tape.
- Options:
    i. GOOD
    ii. FAIR
    iii. POOR
    iv. REPLACEMENT REQUIRED

15) Condition of Cables

- Assess the primary and secondary connections for damage.

- Options:
    i. GOOD
    ii. FAIR
    iii. POOR
    iv. BAD

16) Number of Primary Cables

- How many primary cables are entering the vault?
- Options: 1, 2, 3, 4, 6, 9, 12, 15

17) Number of Ducts

- Some of these ducts will be located underneath floor panels. These panels are very heavy so take caution when moving them. (Figure 5)
- Options: 1 to 9, 10, 12, 16, 20

Figure 5

18) Switch Type

- Options:

3-WAY	CUTOUT	LOAD BREAK
		

Figure 6

Transformer Inspection Tab

19) Tap Changer

- Figure 7
- Options:
    i. YES

Figure 7

ii. NO

Attributes 20 to 8 are completed for Red, White, and Blue phase. The phase of the TX is indicated by coloured tape on the bushing. (Figure 8)

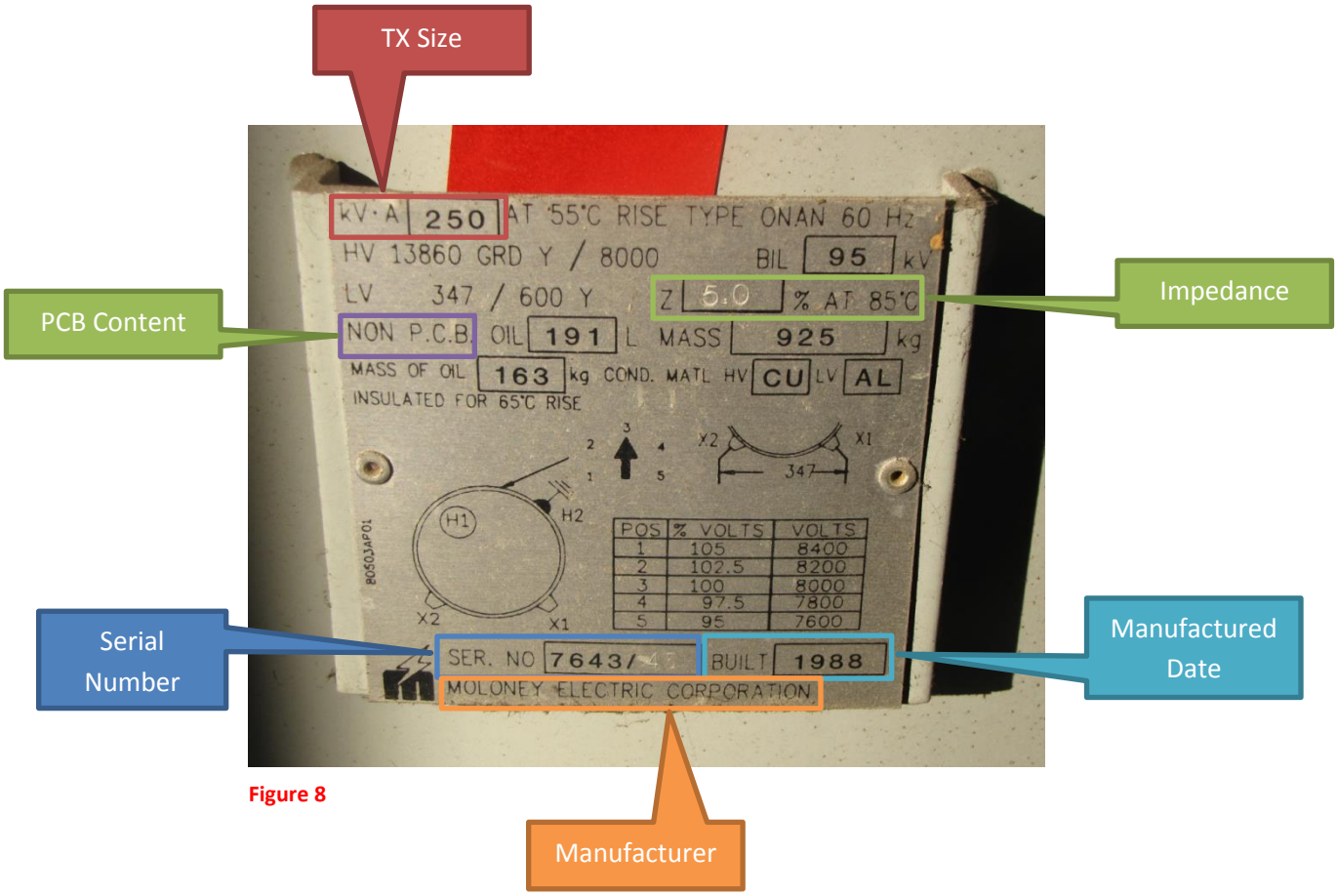


Figure 8

20) TX Size

- Select the appropriate size from the drop down menu.

21) Manufacturer

- Located on the manufacturer's plate.
- Select the appropriate manufacturer from the drop down menu.
- Add a new manufacturer if require.

22) Manufactured Date

- Located in the manufacturer's plate.
- Select the appropriate date from the drop down menu.

23) Impedance

- Located on the manufacturer's plate as a percentage along with a temperature rating.
- Enter the correct value into the field.

24) Serial Number

- Located on the manufacturer's plate
- Serial numbers will contain characters such as **":** / \" or spaces. **Input these characters as dashes "-"** with no spaces in the field.
- Enter the correct value into the field

25) PCB Content

- If the TX was tested for PCBs, the content would be written on the TX in marker.
- The manufacturer's plate may also hold this information.
- Options:
    i. NON PCB
    ii. <2
    iii. <1
    iv. UNKNOWN

26) TX Condition

- Assess transformer for damage, wear, rust, and oil leaks.
- Options:
    i. GOOD
    ii. FAIR
    iii. POOR
    iv. REPLACEMENT

27) Rust – Transformer Tank

- Assess transformer for rust. (Figure 9)
    i. YES
    ii. NO
    iii. ON RED PHASE
    iv. ON WHITE PHASE
    v. ON BLUE PHASE
    vi. ALL

Figure 9

28) Sign of Oil Leak

- Options:
  i. YES
  ii. NO
  iii. ON RED PHASE
  iv. ON WHITE PHASE
  v. ON BLUE PHASE
  vi. ALL

29) Oil Leak Severity

- Base the oil severity on how much oil has spilled onto the floor. (Figure 10)
- Options:

MINOR	MODERATE	MAJOR
		

Figure 10

30) Sign of Boiling Over

- Observe top brim of the TX for oil leaks. (Figure 11)
- Options:
  i. YES
  ii. NO
  iii. ON RED PHASE
  iv. ON WHITE PHASE
  v. ON BLUE PHASE
  vi. ALL

Figure 11

31) Inspect Comment

- List any pertinent data that isn't covered in the inspection attributes here. Eg. dead animals in vault.

Collecting Pictures and Marking Phases

Pictures must be taken of every vault inspected. A picture of the **vault door (including the vault number)** is required followed by a **wide shot of all three transformers** as well as any **switches and cutouts**. Pictures of **manufacturer's plates for all three transformers** must be taken.

Do not attempt to take pictures of plates if that requires you to get close to live equipment. Instead use a camera mounted on a high voltage applicable extension rod eg. GridSense HighV Camera.

After having identified the phase of the TX (by the colored tape on the terminators), apply a new colored tape to the appropriate transformer beside the manufacturer's plate.

Section 3

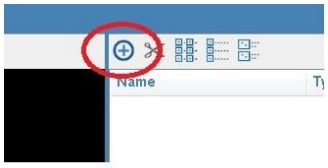
Post-Inspection

Attaching Pictures and Uploading

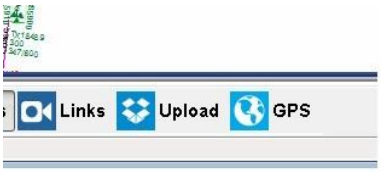
Once all TX have been inspected, you may proceed with attaching pictures to their corresponding redlines and then uploading the data:

1. Select a redline from the top left section and then click “Links” from the bottom of the window

2. Click the “+” at the top of the window and select the appropriate pictures to attach, then click “Continue”



3. Repeat above steps for all redlines
4. Once all photos have been attached, click “Upload” at the bottom the screen and “Upload” again at the bottom right
5. Give the program a few moments to complete the upload, then press continue and close the application



On returning to the office, dock the tablet and fill out the Sign Out/In sheet. Then inform the Records & Mapping Department that your tablet data is ready for uploading.

Congratulations! You have now successfully completed a Vault Transformer Inspection. Good luck in the future and stay safe!

Appendix A: Safety Requirements

enersource		CORPORATE POLICY	
SUBJECT	PERSONAL PROTECTIVE EQUIPMENT	NUMBER	200-5
DEPARTMENT	HEALTH, SAFETY & SECURITY	REVISED DATE	January 2014
REPLACES POL#	N/A	ORIGINAL DATE	January 2009

1.0 Purpose

To provide a corporate policy that outlines the requirements for the purchasing standard, inspection and maintenance and the wearing of personal protective equipment (PPE) as per the *Occupational Health & Safety Act*, Electrical Utilities Safety Rules and other applicable legislative requirements.

2.0 Scope

This procedure applies to all Enersource Corporation ("Enersource" or the "Company") Employees and those doing work for Enersource including contractors/subcontractors and consultants who perform or supervise work.

3.0 Roles and responsibilities

The Health, Safety, and Security Department (HS&S) is responsible for revising this policy as necessary. The HS&S department will assist Supervisors and Managers in selecting appropriate personal protective equipment for Employees.

Managers and Supervisors have the responsibility to ensure that each Employee has access to appropriate protective equipment. It is also the responsibility of the Supervisor, and the employer, to know the work hazards, select the appropriate controls and PPE, ensure that Employees are trained in the proper use and care of the equipment before using it, instructed when to use it and that the equipment is maintained in good working condition.

The Employee/contractor has the responsibility to use and wear the equipment in the proper manner to protect the worker against hazards to which they may be exposed.

4.0 Procedure

4.1. General

Personal protective equipment (PPE) is equipment worn by a worker to minimize exposure to specific occupational hazards. PPE does not reduce the hazard itself, nor does it guarantee total protection. Consideration should be given to the elimination or control of hazards at their source thereby eliminating the need for personal protective equipment. When the hazard cannot be removed or controlled adequately, PPE must be used.

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DEPARTMENT	HEALTH, SAFETY & SECURITY	REVISED DATE	January 2014
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All personnel visiting work sites or in designated PPE areas, while not directly involved in doing the work, are expected to wear appropriate PPE.

- All PPE equipment must meet and be approved by the Canadian Standards Association (CSA);
- All PPE shall be inspected, maintained, repaired or replaced in accordance with the manufacturers' and the Company's guidelines;
- Department Supervisors and/or department Managers shall ensure the PPE is appropriate for the task before it is used; and
- PPE must not be altered.

If you are not sure when or where to use PPE "ASK YOUR SUPERVISOR".

4.2. Head Protection

4.2.1. All Employees shall wear , CSA Class E approved head protection, as supplied by Enersource, whenever:

- in work areas in the field;
- the potential of head injury exists, such as falling, flying or thrown objects or other harmful contacts;
- working on or around energized equipment;
- working on a project; and
- a procedure or area is designated as requiring head protection.

4.2.2. For maximum head protection:

- keep hat free of dirt, oil, grease or other conducting chemicals to prevent against electrical shock.

4.2.3. Replace head protection when:

- head protection has received a severe blow;
- shell and suspension is worn or damaged; and
- head protection has been painted or has inappropriate accessories attached to it.

4.2.4. Winter liners shall be made of flame resistant material.

4.2.5. Head protection should not be stored by a window because bright sunlight will cause faster deterioration.

4.2.6. Safety helmets shall be CSA, D.O.T or SNELL approved and shall be worn while operating or riding on All Terrain Vehicles (ATV).

4.3. Eye and Face Protection

4.3.1. All employees shall wear approved eye protection (i.e., safety glasses, prescription, goggles, or face shields) as supplied by Enersource, whenever the risk of hazardous substance or flying particles exists and whenever a procedure or area is designated as requiring eye protection. Standards for selecting appropriate eye protection shall be in accordance with the CSA Standard and as specified in a procedure or in a designated area.

4.3.2. Contact lenses are not recommended for any workplace that requires eye protection.

4.3.3. Replace glasses if they become damaged, worn or are missing parts such as side shields.

4.3.4. Welding Glasses / Face Shield

- All employees involved with welding activities or using cutting torches, whether doing the actual welding/cutting or working in the same work area, shall wear eye protection approved for the particular welding/cutting environments (i.e., arc welding as opposed to oxygen welding).

4.3.5. Electrical Flash Glasses

- All employees working on live electrical equipment shall wear appropriate eye protection in all circumstances where there is a possibility of an electrical flash; and

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- Lenses used in eye protection may be clear or tinted. Clear scratch resistant polycarbonate lenses and clear plastic lenses (CR 39) having UV protection of 380 nm or greater, filter ultraviolet (UVA & UVB) rays sufficiently in all light conditions. If tinted lenses are used, they must allow sufficient light transmission to allow work to be performed safely.

4.4. Foot Protection

4.4.1. All employees shall wear CSA-approved safety footwear when potential injury to the feet exists, when conducting field work or in designated areas. CSA approval shall be of a Grade 1 "Green Triangle", puncture resistant, Omega electrical insulated rating, and anti-slip sole. Footwear design will be a minimum of 150 mm (6 in) in height.

Note: Under certain circumstances, and for specific job classifications, other types of safety footwear may be approved upon consultation with the supervisor and the Health, Safety, and Security department, such as meter readers conducting reading of meters in residential areas only.

4.4.2. Safety footwear shall be laced and tied at all times.

4.4.3. In an effort to reduce injuries such as slipping, inspect footwear regularly and replace them if they become worn, damaged, or saturated in chemicals.

4.4.4. Protection against electrical shock decreases as the sole of the safety footwear is worn, contaminated with chemicals, or imbedded with conducting materials.

4.4.5. In icy conditions field staff should wear approved ice cleats supplied by the Company.

4.5. Hearing Protection

4.5.1. All employees are required to wear CSA-approved hearing protection when in areas, or using equipment, where exposure to noise is in excess of 85 decibels. As a guideline, when the noise level is unknown, it is recommended to wear hearing protection both on and off the job, when it is difficult to converse at approximately three feet apart..

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4.5.2. It is the responsibility of the supervisor to establish the potential noise exposures and appropriate control measures for employees working in their department.

4.5.3. Before using any hearing protection for the first time, the user must be instructed on its proper use and care by the department Supervisor or with the assistance of the HS&S department.

4.5.4. Replace hearing protection when:

- the frame and shell is deteriorating; or
- the noise dampening material starts to lose its flexibility or seal

4.6. Hand Protection

4.6.1. Appropriate gloves, supplied by Enersource, shall be worn by employees to prevent injuries such as cuts, punctures, abrasions, or irritation due to physical, chemical, biological, or electrical exposure.

4.6.2. Employees who are required to wear electrically rated rubber gloves shall be trained in the proper class selection, and the care and use of rubber gloves and leather protectors.

4.6.3. CSA approved electrically rated rubber gloves or other rubber protective equipment must be used whenever working on live electrical apparatus, following the 'ground to ground' or 'lock to lock' rule.

4.6.4. Chemical gloves shall be selected in accordance with Material Safety Data Sheet (MSDS) information supplied by the manufacturer of the product or chemical.

4.6.5. Jewellery or rings shall be removed as per section 4.7.5.

4.6.6. Specific rules shall be adhered to as stipulated in the current Electrical Utility Safety Rule Book and Safe Practice Guides.

4.7. Hazardous/Protective Clothing

4.7.1. All employees will wear full length pants at work, unless they are working in an office environment.

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Note: *Under certain circumstances, for contracted metering job classifications, other type of clothing may be approved by the Enersource Supervisor and in consultation with the Health, Safety, and Security department.*

4.7.2. Reflective clothing with silver stripes encircling each arm and leg must be worn by employees who may be endangered by vehicular traffic during night time hours.

4.7.3. All employees working on or around energized electrical equipment shall wear approved flame resistant clothing with long sleeved shirts extended to the wrists.

4.7.4. Employees shall wear long sleeved shirts with the sleeves extended to the wrists when working on energized equipment or when working aloft on a pole or structure. Work shirts shall not be removed by any employee as they provide protection from scratches and abrasions.

4.7.5. Jewellery or rings shall not be worn while performing any type of mechanical, electrical or other type work where the wearing of such items would constitute a hazard.

4.7.6. Long hair, including facial hair, must be suitably confined where it would present an increased risk of injury.

4.7.7. Chemical resistant aprons shall be worn when testing and working on battery banks or as required by the MSDS.

4.8. Respiratory Equipment

4.8.1. All employees shall wear CSA approved respiratory equipment, as supplied by Enersource, whenever contamination of the air exists because of hazardous fumes, vapours, gases, dusts or particulates.

4.8.2. Whenever an area or type or work is designated as requiring respiratory protection.

4.8.3. As directed by the Workplace Hazardous Materials Information System (WHMIS) MSDS Sheet and/or the department Supervisor.

4.8.4. All employees are responsible for maintaining respirators in a clean condition, wearing it in designated areas or during job tasks and notifying their Supervisor if the respirator requires repairs.

Note: No one shall conduct a task that requires the use of a respirator that has not been properly trained and fit tested.

4.8.5. Disposable respirator:

- Disposable respirators shall not be used as a barrier to vapours, fumes and gases unless specifically designed for that use;
- Disposable dust masks shall be disposed of and a fresh one used whenever air cannot be drawn through it easily or, at least one fresh mask for each day of use; and
- The fit and seal of disposable respirators must be checked and the employee must be properly trained in its use before using the respirator.

4.8.6. Cartridge type respiratory protection:

Cartridge type respiratory protection will be used whenever directed by the WHMIS MSDS Sheet, a procedure and/or the department Supervisor.

- A cartridge type respirator will be properly fitted to the individual and the Employee will be properly trained in its use, care, and maintenance before using the respirator;
- The correct type of cartridge must be used according to the nature of the contaminant; and
- The fit and seal of cartridge type respirators must be checked before every use.

4.9. Fall Protection

4.9.1. Personal Protective Equipment is required when a worker is exposed to any of the following hazards:

- Falling more than 3 meters;
- Falling more than 1.2 meters, if the work area is used as a path for a wheelbarrow or similar equipment;
- Falling into operating machinery;

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- Falling into water or another liquid;
- Falling into or onto a hazardous substance or object; and
- Falling through an opening on a work surface.

4.9.2. A worker shall be adequately protected by a guardrail system unless it is not reasonably possible to install a guardrail system or the guardrail cannot provide adequate protection. In those circumstances, at least one of the following fall protection methods shall be used:

- Travel restraint system;
- Fall restricting system;
- Fall arrest system; or
- Safety net.

4.9.3. Employees who may use a fall protection system must be trained in its use and given oral and written instructions by a competent person.

4.9.4. Travel Restraint System

- A travel restraint system shall consist of a full body harness with adequate attachment points or a safety belt;
- The full body harness or safety belt shall be attached by a lifeline or lanyard to a fixed support that meets the requirements of the *Occupational Health and Safety Act* (OHSA);
- The travel restraint system shall be inspected by a competent worker before each use; and
- If a component of the travel restraint system is found to be defective on inspection, the defective component shall immediately be taken out of service.

4.9.5. Fall Restricting System

A fall restricting system that is not designed for use in wood pole climbing shall consist of an assembly of components that is:

- Attached to an independent fixed support that meets the requirements of the OHSA; and
- Designed and arranged in accordance with the manufacturer's instructions so that a worker's free fall distance does not exceed 0.6 meters.

A fall restricting system that is designed for use in wood pole climbing shall:

- Consist of an assembly of components that is designed and arranged in accordance with the manufacturer's instructions; and
- Be inspected by a competent worker before each use. If a component of the fall restricting system is found to be defective on inspection, the component shall be taken out of service immediately. If a worker who is using the fall restricting system falls or slips more than the distance stated in the OHSA, the system shall be immediately removed from service and shall not be used again by a worker unless all components of the system have been certified by the manufacturer as being safe for re-use.

4.9.6. Fall Arrest System

- A fall arrest system shall consist of a full body harness with adequate attachment points and a lanyard equipped with a shock absorber or similar device;
- The system shall be attached by a lifeline or by the lanyard to an independent fixed support that meets the requirements of the OHSA;
- The fall arrest system shall be arranged so that a worker cannot hit the ground or an object or level below the work;
- It shall not include a shock absorber if wearing or using one could cause a worker to hit the ground or an object or level below the work;
- The system shall not subject a worker who falls to a peak fall arrest force greater than 8 kilonewtons;
- It shall be inspected by a competent worker before each use;
- If a component of the fall arrest system is found to be defective on inspection, the defective component shall immediately be taken out of service; and
- If a worker who is using the fall arrest system falls, the system shall be immediately removed from service and shall not be used again by a worker unless all components of the system have been certified by the manufacturer as being safe for re-use.

4.9.7. Annual Inspection and Recording of Fall Protection Equipment

- All fall protection equipment will have a Radio Frequency Identification Device attached to it for identification purposes and to act as a link to the JD Edwards (JDE) software;

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- All fall protection equipment will be inspected on an annual basis by a competent person;
- The equipment's history and pertinent manufacturer information will be available to the competent person through the scanning of the RFID device in the JDE software; and
- Inspection results will be recorded in the JDE software system.

Note: Several pieces of the Forestry department's fall protection equipment does not allow for the physical attachment of the RFID device to the specific piece of equipment. In these instances, a separate recording system using pictures and/or serial numbers along with the RFID device is being used, i.e., carabineers, micro pulleys, and figure eights.

5.0 FORMS

None

6.0 DEFINITIONS

RFID	is the wireless use of radio-frequency electromagnetic fields to transfer data, for the purposes of automatically identifying and tracking tags attached to objects.

JT.2.35

a) To provide remediation costs associated only with leaky transformers for the last five years.

Response:

a) For the Enersource rate zone, environmental remediation costs from 2012 to 2016 are provided in Table 1. From 2014 to 2016, the legacy Enersource spent $3.1MM on environmental remediation due to leaking transformers with PCB oil and $2.5MM on environmental remediation due to leaking transformers with Non-PCB oil for a total of $5.6MM in environmental remediation costs.

Over the five year period from 2012 to 2016, the legacy Enersource spent $5.9MM on environmental remediations due to leaking transformers.

Table 1 – Environmental Remediation Costs due to Leaking Transformers in Mississauga over a five year period from 2012 to 2016

Year	Remediation Cost ($000) for Leaking PCB Transformers	Remediation Cost ($000) for Leaking Non-PCB Transformer	Total Remediation Cost ($000) for Leaking Transformers
2012	$ 86	-	$ 86
2013	$ 201	-	$ 201
2014	$ 740	$ 43	$ 783
2015	$ 1,109	$ 1,149	$ 2,258
2016	$ 1,250	$ 1,308	$ 2,558
Total 2012-2016	**$ 3,387**	**$ 2,501**	**$ 5,887**

JT.2.36

a) To advise why the 19.4 million referred to in 2013 to 2016 was not included in rates.

Response:

a) As provided in Figure 18 of the business case for the Leaking Transformer Replacement Project (Attachment 47, Page 65), the former Enersource invested approximately $19.4MM in replacing leaking and PCB transformers in the Enersource rate zone between 2013 and 2016. It is important to note, when legacy Enersource put its long-term plan together in 2011/2012 based on the then most recent asset condition assessment, the magnitude, scope and number of leaking transformers was not known. As a result of the asset condition assessment and the work completed with Kinectrics in 2012, the legacy Enersource improved its inspection processes and began collecting more asset information. With additional information attained from enhanced inspections of transformers, it became apparent that the level of expenditure required to support the replacement of leaking and PCB transformers would be significantly higher than that which was supported in rates. Table 1 below illustrates the funding included in rates from the 2013 Cost of Service Application for the transformer replacement program and the actual costs from the 2013-2016 from the PCB and Leaking Transformer Replacement Project.

Table 1 – 2013-2016 Transformer Replacement Project and Program CAPEX for ERZ

Initiative	COS[1] 2013 Plan	Actual CAPEX 2013 ($000)	Actual CAPEX 2014 ($000)	Actual CAPEX 2015 ($000)	Actual CAPEX 2016 ($000)	Total Actual CAPEX 2013-2016 ($000)
Transformer Replacement Program	1,004	1,471	1,981	2,955	1,526	8,936
PCB & Leaking Transformer Replacement Project	0	1,395	5,624	5,472	6,973	19,464
Total	**1,004**	**2,866**	**7,605**	**8,426**	**8,499**	**28,400**

[1] 2013 Cost of Service planned expenditures are found at EB-2012-0033/Exhibit 2/Tab 2/Schedule 2/Appendix 1/Page 108.

JT.2.37

a) To provide a list of the ICM projects and any estimates you have of future OM&A impacts, whether they are reduction in increases or they are absolute reductions.

Response:

a) Projected sources of cost savings were identified in Section 1.1.2 of Alectra Utilities Distribution System Plan for the Enersource Rates Zone (Attachment 50, p.18). OM&A savings due to system renewal investments were further described in response to ERZ-Staff-48 where the Alectra Utilities provided that the projected $300,000 in annual OM&A savings are attributed to timely system renewal investments related to underground system rebuilds, overhead system rebuilds as well as investments in sub-transmission renewals. The annual savings were estimated based on the reduction to emergency replacement of failures, reduction in overtime costs, reducted emergency generator costs as well as other miscellaneous repair expenses. Such annual OM&A savings are projected to be savings avoidance relative to expected increases in costs. Table 1 lists the proposed ICM projects and the projected annual OM&A savings for the ERZ.

Furthermore, Alectra Utilities also described the Company's multi-year project plan in the ERZ to replace leaking transformers before substantial leaks occur, thus avoiding the need for costly and distruptive environmental remediation requirements. Based on costs incurred to date to remediate sites affected by oil leaks from transformers, Alectra Utilities expects to avoid approximately $50,000 for each site where future environmental remediation would otherwise become necessary.

Table 2 lists the proposed ICM projects and the projected annual OM&A savings for the PRZ. The proposed ICM project to remediate the rear lot supply at Royal Orchard North is projected to yield a reduction, while the remainder of the proposed ICM system renewal projects are savings from avoidance of cost increases. There are no projected ongoing OM&A savings from system access nor system service proposed ICM projects.

1 **Table 1 – Projected Annual OM&A Savings from Proposed ICM Projects in ERZ.**

Project	Projected Annual OM&A Savings ($000)	Comment
Overhead Rebuild - Lake/John	$ 10.6	Avoidance from increases
Overhead Rebuild - Church	$ 11.6	Avoidance from increases
Sudvision Rebuild - Credit Woodlands Crt/Wiltshire	$ 17.6	Avoidance from increases
Subdivision Rebuild - Glen Erin & Montevideo	$ 22.3	Avoidance from increases
Subdivision Rebuild - Tenth Line Main Feeder	$ 12.9	Avoidance from increases
Subdivision Rebuild - Folkway&Erin Mills Main Feeder	$ 11.8	Avoidance from increases
Subdivision Rebuild - Glen Erin & Battleford	$ 23.5	Avoidance from increases
Subdivision Rebuild - City Center Drive	$ 17.6	Avoidance from increases
Total	**$ 128.0**	

2 **Table 2 – Projected Annual OM&A Savings from Proposed ICM Projects in PRZ.**

Project	Projected Annual OM&A Savings ($000)	Comment
Station Switchgear Replacement 8th Line MS323	$ 2.4	Avoidance from increases
Rear Lot Supply Remediation – Royal Ochard – North	$ 7.3	Reduction
Cable Replacement (M49) Steeles & Fairway Heights	$ 6.9	Avoidance from increases
Cable Repalcement (V08) Steeles & New Westminster	$ 10.2	Avoidance from increases
Circuit Breaker Replacement – Richmond Hill TS#1	$ 2.4	Avoidance from increases
Total	**$ 29.2**	

JT.2.38

a) To advise what percentage of your total overhead lines are rear lot construction.

Response:

a) For the PowerStream rate zone, the total over head conductor length is 6,582.9 km. Rear lot construction conductor length is 52.8 km, which represents 0.8% of the total overhead line conductor length.

JT.2.39

a) To provide the regulatory ROE forecast for 2017 and 2018.

Response:

a) Alectra Utilities is not in a position to provide the forecast regulatory ROE for 2017 until the financial year end activities have concluded. Alectra Utilities does not have a forecast regulatory ROE for 2018.

JT.2.40

a) To confirm whether the switch to monthly billing will reduce revenue requirement by approximately $4.94 million per year.

Response:

a) Not confirmed. By letter dated June 3, 2015, the OEB updated its policy for the calculation of the allowance for working capital. The OEB advised that the default value 7.5% should only be implemented during a cost of service ("COS") application. Alectra Utilities has not filed a COS application and is the subject of a rebasing deferral period, approved by the OEB in its decision on the LDC Co Merger, Acquisition, Amalgamation and Divestiture ("MAADs") Application, dated December 8, 2016 (EB-2016-0025).

Alectra further identifies that regarding the PowerStream RZ, PowerStream rebased in 2017; that is, subsequent to the OEB's letter but prior to the commencement of the deferred rebasing period. In its Decision and Order in PowerStream's Custom IR Application (EB-2015-0003), dated August 4, 2016, the OEB approved a working capital allowance of 7.5% for PowerStream.

For the Horizon RZ, as explained in response to HRZ-SEC-8, Horizon Utilities, filed a Lead Lag study with its Custom Incentive Regulation Application (EB-2014-0002). The OEB accepted the Lead Lag Study and the working capital allowance (or factor) of 12.0%, as part of the OEB-approved Settlement Agreement. Further, Horizon Utilities' Settlement Agreement, as agreed by the Parties and approved by the OEB, did not include changes to the working capital allowance percentage.

JT.Staff-1

Ref: HRZ-Staff-2

a) Is it correct to say that Alectra updated the cost of power with new rates up to April 2018, which take into consideration the Fair Hydro Plan? Could you then explain what rates were used for the May to December 2018 period and the assumptions underlying them, including how the Fair Hydro Plan is taken into account?

Response:

a) Alectra Utilities confirms that the cost of power calculation was updated with new rates up to April 2018, which takes into consideration the July 1 Fair Hydro rates. The rates for May to December 2018 were based on an inflationary increase over the May 1 Fair Hydro rates, and should have been based on the July 1 rates which incorporated additional Fair Hydro reductions. Alectra Utilities has updated the cost of power rates for 2018 and has filed the calculation as JTStaff1_Attach 1_COP Calculation. The COP energy RPP, energy non-RPP and Global Adjustment ("GA") rates were based on the Ontario Energy Board's ("OEB") Regulated Price Plan Report, issued April 20, 2017, for the period May 1, 2017 to April 30, 2018 (the "April Report") and the Regulated Price Plan Prices and the Global Adjustment Modifier Report, issued June 22, 2017, for the period July 1, 2017 to April 30, 2018 (the "June Report"). In accordance with the *Fair Hydro Act*, the OEB will reset rates (May 1, 2018) in a way that holds increases to the rate of inflation. Alectra Utilities used an inflation rate of 2% for the May 1, 2018 and November 1, 2018 energy and global adjustment rates.

The assumptions used to determine the 2018 COP energy and global adjustment rates are as follows:

1. HOEP: The January to April HOEP rate of $22.81/MWh was based on the Ontario Electricity Market Price Forecast included at page 13 of the April Report. The rate of $19.21/MWh from April to October was based on the forecast included at page 13 of the April Report. The rate from November to Decemer was based on a 2% inflationary increase over the April to October rate.

2. RPP: The January to April RPP of rate of $82.16/MWh was include at page 2 of the June Report. Table 1 – RPP Prices and GA Modifier: July 1, 2017 to April 30, 2018 at page 2

of the June Report included an average TOU and Tiered RPP price of 8.2cents/kWh. The RPP rate from May to November and November to December, were based on a 2% inflationary increase over the prior period's rate.

3. Global Adjustment: The GA rate assumptions for RPP and non-RPP customers differ due to the implementation of the GA Modifier in the June Report, which impacts RPP customers. The reduction in the GA from the implementation of the FHP did not impact non-RPP consumers. As a result, the GA rate for non-RPP customers was based on the GA rate at page 5 of the April Report, before the impact of the FHP adjustment. The GA RPP and non-RPP rates from May to November and November to December, were based on a 2% inflationary increase over the prior period's rate.

2018 Annual Filing Cost of Power Impact

Category	2018 Annual Filing
Power	$249,047,006
Global Adjustment	$223,606,599
Wholesale Market Services	$19,230,919
Network	$38,452,453
Connection	$31,503,553
Low Voltage	$313,362
Smart Meter Entity	$1,907,630
TOTAL	**$564,061,522**

2018 Cost of Power Expense

Rates

Energy-RPP	January	February	March	April	May	June	July	August	September	October	November	December
Residential	0.08216	0.08216	0.08216	0.08216	0.08380	0.08380	0.08380	0.08380	0.08380	0.08380	0.08548	0.08548
GS< 50kW	0.08216	0.08216	0.08216	0.08216	0.08380	0.08380	0.08380	0.08380	0.08380	0.08380	0.08548	0.08548
GS 50 to 4,999 kW	0.08216	0.08216	0.08216	0.08216	0.08380	0.08380	0.08380	0.08380	0.08380	0.08380	0.08548	0.08548
Large Use	0.08216	0.08216	0.08216	0.08216	0.08380	0.08380	0.08380	0.08380	0.08380	0.08380	0.08548	0.08548
Large Use with Dedicated Assets	0.08216	0.08216	0.08216	0.08216	0.08380	0.08380	0.08380	0.08380	0.08380	0.08380	0.08548	0.08548
Unmetered Scattered Load	0.08216	0.08216	0.08216	0.08216	0.08380	0.08380	0.08380	0.08380	0.08380	0.08380	0.08548	0.08548
Sentinel Lighting	0.08216	0.08216	0.08216	0.08216	0.08380	0.08380	0.08380	0.08380	0.08380	0.08380	0.08548	0.08548
Street Lighting	0.08216	0.08216	0.08216	0.08216	0.08380	0.08380	0.08380	0.08380	0.08380	0.08380	0.08548	0.08548

Rates

Energy-Non-RPP	January	February	March	April	May	June	July	August	September	October	November	December
Residential	0.02281	0.02281	0.02281	0.02281	0.01921	0.01921	0.01921	0.01921	0.01921	0.01921	0.01959	0.01959
GS< 50kW	0.02281	0.02281	0.02281	0.02281	0.01921	0.01921	0.01921	0.01921	0.01921	0.01921	0.01959	0.01959
GS 50 to 4,999 kW	0.02281	0.02281	0.02281	0.02281	0.01921	0.01921	0.01921	0.01921	0.01921	0.01921	0.01959	0.01959
Large Use	0.02281	0.02281	0.02281	0.02281	0.01921	0.01921	0.01921	0.01921	0.01921	0.01921	0.01959	0.01959
Large Use with Dedicated Assets	0.02281	0.02281	0.02281	0.02281	0.01921	0.01921	0.01921	0.01921	0.01921	0.01921	0.01959	0.01959
Unmetered Scattered Load	0.02281	0.02281	0.02281	0.02281	0.01921	0.01921	0.01921	0.01921	0.01921	0.01921	0.01959	0.01959
Sentinel Lighting	0.02281	0.02281	0.02281	0.02281	0.01921	0.01921	0.01921	0.01921	0.01921	0.01921	0.01959	0.01959
Street Lighting	0.02281	0.02281	0.02281	0.02281	0.01921	0.01921	0.01921	0.01921	0.01921	0.01921	0.01959	0.01959

Rates

Global Adjustment	January	February	March	April	May	June	July	August	September	October	November	December
Residential	0.05493	0.05493	0.05493	0.05493	0.05603	0.05603	0.05603	0.05603	0.05603	0.05603	0.05715	0.05715
GS< 50kW	0.05493	0.05493	0.05493	0.05493	0.05603	0.05603	0.05603	0.05603	0.05603	0.05603	0.05715	0.05715
GS 50 to 4,999 kW	0.08767	0.08767	0.08767	0.08767	0.08942	0.08942	0.08942	0.08942	0.08942	0.08942	0.09121	0.09121
Large Use	0.08767	0.08767	0.08767	0.08767	0.08942	0.08942	0.08942	0.08942	0.08942	0.08942	0.09121	0.09121
Large Use with Dedicated Assets	0.08767	0.08767	0.08767	0.08767	0.08942	0.08942	0.08942	0.08942	0.08942	0.08942	0.09121	0.09121
Unmetered Scattered Load	0.08767	0.08767	0.08767	0.08767	0.08942	0.08942	0.08942	0.08942	0.08942	0.08942	0.09121	0.09121
Sentinel Lighting	0.08767	0.08767	0.08767	0.08767	0.08942	0.08942	0.08942	0.08942	0.08942	0.08942	0.09121	0.09121
Street Lighting	0.08767	0.08767	0.08767	0.08767	0.08942	0.08942	0.08942	0.08942	0.08942	0.08942	0.09121	0.09121

Rates

Wholesale Market Services	January	February	March	April	May	June	July	August	September	October	November	December
Residential	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
GS< 50kW	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
GS 50 to 4,999 kW	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
Large Use	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
Large Use with Dedicated Assets	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
Unmetered Scattered Load	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
Sentinel Lighting	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
Street Lighting	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039

Rates

Network	January	February	March	April	May	June	July	August	September	October	November	December
Residential	$ 0.0075	$ 0.0075	$ 0.0075	$ 0.0075	$ 0.0075	$ 0.0075	$ 0.0075	$ 0.0075	$ 0.0075	$ 0.0075	$ 0.0075	$ 0.0075
GS< 50kW	$ 0.0066	$ 0.0066	$ 0.0066	$ 0.0066	$ 0.0066	$ 0.0066	$ 0.0066	$ 0.0066	$ 0.0066	$ 0.0066	$ 0.0066	$ 0.0066
GS 50 to 4,999 kW	$ 2.6201	$ 2.6201	$ 2.6201	$ 2.6201	$ 2.6201	$ 2.6201	$ 2.6201	$ 2.6201	$ 2.6201	$ 2.6201	$ 2.6201	$ 2.6201
Large Use	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930
Large Use with Dedicated Assets	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930	$ 2.9930
Unmetered Scattered Load	$ 0.0067	$ 0.0067	$ 0.0067	$ 0.0067	$ 0.0067	$ 0.0067	$ 0.0067	$ 0.0067	$ 0.0067	$ 0.0067	$ 0.0067	$ 0.0067
Sentinel Lighting	$ 2.1771	$ 2.1771	$ 2.1771	$ 2.1771	$ 2.1771	$ 2.1771	$ 2.1771	$ 2.1771	$ 2.1771	$ 2.1771	$ 2.1771	$ 2.1771
Street Lighting	$ 2.0625	$ 2.0625	$ 2.0625	$ 2.0625	$ 2.0625	$ 2.0625	$ 2.0625	$ 2.0625	$ 2.0625	$ 2.0625	$ 2.0625	$ 2.0625

Rates

Connection	January	February	March	April	May	June	July	August	September	October	November	December
Residential	$ 0.0060	$ 0.0060	$ 0.0060	$ 0.0060	$ 0.0060	$ 0.0060	$ 0.0060	$ 0.0060	$ 0.0060	$ 0.0060	$ 0.0060	$ 0.0060
GS< 50kW	$ 0.0054	$ 0.0054	$ 0.0054	$ 0.0054	$ 0.0054	$ 0.0054	$ 0.0054	$ 0.0054	$ 0.0054	$ 0.0054	$ 0.0054	$ 0.0054
GS 50 to 4,999 kW	$ 2.1726	$ 2.1726	$ 2.1726	$ 2.1726	$ 2.1726	$ 2.1726	$ 2.1726	$ 2.1726	$ 2.1726	$ 2.1726	$ 2.1726	$ 2.1726
Large Use	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965
Large Use with Dedicated Assets	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965	$ 2.4965
Unmetered Scattered Load	$ 0.0055	$ 0.0055	$ 0.0055	$ 0.0055	$ 0.0055	$ 0.0055	$ 0.0055	$ 0.0055	$ 0.0055	$ 0.0055	$ 0.0055	$ 0.0055
Sentinel Lighting	$ 1.7481	$ 1.7481	$ 1.7481	$ 1.7481	$ 1.7481	$ 1.7481	$ 1.7481	$ 1.7481	$ 1.7481	$ 1.7481	$ 1.7481	$ 1.7481
Street Lighting	$ 1.7044	$ 1.7044	$ 1.7044	$ 1.7044	$ 1.7044	$ 1.7044	$ 1.7044	$ 1.7044	$ 1.7044	$ 1.7044	$ 1.7044	$ 1.7044

Rates

Low Voltage	January	February	March	April	May	June	July	August	September	October	November	December
Residential	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006
GS< 50kW	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006
GS 50 to 4,999 kW	$ 0.02169	$ 0.02169	$ 0.02169	$ 0.02169	$ 0.02169	$ 0.02169	$ 0.02169	$ 0.02169	$ 0.02169	$ 0.02169	$ 0.02169	$ 0.02169
Large Use	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492
Large Use with Dedicated Assets	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492	$ 0.02492
Unmetered Scattered Load	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006	$ 0.00006
Sentinel Lighting	$ 0.01745	$ 0.01745	$ 0.01745	$ 0.01745	$ 0.01745	$ 0.01745	$ 0.01745	$ 0.01745	$ 0.01745	$ 0.01745	$ 0.01745	$ 0.01745
Street Lighting	$ 0.01702	$ 0.01702	$ 0.01702	$ 0.01702	$ 0.01702	$ 0.01702	$ 0.01702	$ 0.01702	$ 0.01702	$ 0.01702	$ 0.01702	$ 0.01702

Rates

Smart Meter Entity	January	February	March	April	May	June	July	August	September	October	November	December
Residential	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880		
GS< 50kW	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880	$ 0.7880		
GS 50 to 4,999 kW												
Large Use												
Large Use with Dedicated Assets												
Unmetered Scattered Load												
Sentinel Lighting												
Street Lighting												

2018 Cost of Power Expense

Volumes											
January	February	March	April	May	June	July	August	September	October	November	December
142,349,936	127,387,723	129,239,804	116,624,626	117,311,477	135,827,224	163,749,637	155,004,545	128,090,998	127,098,712	131,262,432	141,467,350
45,794,233	40,700,856	42,984,670	38,128,405	40,066,217	44,763,572	50,266,094	44,525,605	40,828,945	33,791,594	41,686,638	44,684,051
18,766,197	17,221,648	17,852,526	16,473,647	16,836,945	18,057,208	19,760,786	19,221,443	16,992,604	15,969,489	16,751,258	18,119,504
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
901,619	853,144	857,142	826,314	824,492	1,029,308	1,103,083	878,271	693,070	765,402	962,048	1,066,246
39,867	24,773	34,178	23,434	38,169	31,084	47,516	28,481	28,246	21,357	41,659	33,860
29,287	29,130	24,709	22,827	19,761	17,583	19,167	21,164	24,453	26,369	29,283	32,415
207,881,140	**186,217,275**	**190,993,028**	**172,099,254**	**175,097,061**	**199,725,978**	**234,946,283**	**219,679,510**	**186,658,316**	**177,672,923**	**190,733,317**	**205,403,426**

Volumes											
January	February	March	April	May	June	July	August	September	October	November	December
8,253,043	7,385,577	7,492,955	6,761,563	6,801,385	7,874,875	9,493,737	8,986,721	7,426,351	7,368,821	7,610,221	8,201,873
9,687,028	8,609,607	9,092,711	8,065,446	8,475,359	9,469,009	10,632,978	9,418,671	8,636,702	7,148,064	8,818,133	9,452,187
150,756,815	138,348,798	143,416,902	132,339,789	135,258,312	145,061,199	158,746,770	154,413,996	136,508,784	128,289,672	134,569,953	145,561,651
20,767,919	19,041,639	20,908,737	20,490,527	20,667,103	16,642,214	20,739,996	20,611,140	19,380,181	20,515,802	19,710,555	19,735,205
38,136,398	35,019,020	35,082,711	35,184,252	29,735,594	31,008,299	30,462,778	32,724,177	30,207,664	34,191,807	35,674,121	31,610,302
31,348	29,662	29,801	28,729	28,666	35,787	38,352	30,536	24,097	26,612	33,449	37,071
407	253	349	239	389	317	485	291	288	218	425	345
4,038,369	4,016,662	3,407,083	3,147,532	2,724,871	2,424,544	2,642,867	2,918,347	3,371,796	3,635,985	4,037,796	4,469,634
231,671,327	**212,451,217**	**219,431,249**	**206,018,079**	**203,691,680**	**212,516,244**	**232,757,963**	**229,103,879**	**205,555,862**	**201,176,981**	**210,454,653**	**219,068,270**

Volumes											
January	February	March	April	May	June	July	August	September	October	November	December
8,253,043	7,385,577	7,492,955	6,761,563	6,801,385	7,874,875	9,493,737	8,986,721	7,426,351	7,368,821	7,610,221	8,201,873
9,687,028	8,609,607	9,092,711	8,065,446	8,475,359	9,469,009	10,632,978	9,418,671	8,636,702	7,148,064	8,818,133	9,452,187
150,756,815	138,348,798	143,416,902	132,339,789	135,258,312	145,061,199	158,746,770	154,413,996	136,508,784	128,289,672	134,569,953	145,561,651
20,767,919	19,041,639	20,908,737	20,490,527	20,667,103	16,642,214	20,739,996	20,611,140	19,380,181	20,515,802	19,710,555	19,735,205
38,136,398	35,019,020	35,082,711	35,184,252	29,735,594	31,008,299	30,462,778	32,724,177	30,207,664	34,191,807	35,674,121	31,610,302
31,348	29,662	29,801	28,729	28,666	35,787	38,352	30,536	24,097	26,612	33,449	37,071
407	253	349	239	389	317	485	291	288	218	425	345
4,038,369	4,016,662	3,407,083	3,147,532	2,724,871	2,424,544	2,642,867	2,918,347	3,371,796	3,635,985	4,037,796	4,469,634
231,671,327	**212,451,217**	**219,431,249**	**206,018,079**	**203,691,680**	**212,516,244**	**232,757,963**	**229,103,879**	**205,555,862**	**201,176,981**	**210,454,653**	**219,068,270**

Volumes											
January	February	March	April	May	June	July	August	September	October	November	December
150,602,979	134,773,300	136,732,759	123,386,190	124,112,861	143,702,099	173,243,373	163,991,266	135,517,349	134,467,533	138,872,653	149,669,224
55,481,261	49,310,463	52,077,380	46,193,851	48,541,576	54,232,580	60,899,073	53,944,276	49,465,647	40,939,658	50,504,771	54,136,238
169,523,013	155,570,447	161,269,428	148,813,437	152,095,257	163,118,406	178,507,556	173,635,440	153,501,387	144,259,161	151,321,211	163,681,155
20,767,919	19,041,639	20,908,737	20,490,527	20,667,103	16,642,214	20,739,996	20,611,140	19,380,181	20,515,802	19,710,555	19,735,205
38,136,398	35,019,020	35,082,711	35,184,252	29,735,594	31,008,299	30,462,778	32,724,177	30,207,664	34,191,807	35,674,121	31,610,302
932,967	882,807	886,944	855,043	853,158	1,065,095	1,141,436	908,807	717,166	792,014	995,497	1,103,318
40,274	25,025	34,527	23,674	38,559	31,401	48,001	28,771	28,535	21,575	42,084	34,206
4,067,656	4,045,791	3,431,792	3,170,359	2,744,633	2,442,127	2,662,034	2,939,512	3,396,249	3,662,354	4,067,079	4,502,049
439,552,466	**398,668,492**	**410,424,277**	**378,117,332**	**378,788,740**	**412,242,221**	**467,704,246**	**448,783,389**	**392,214,178**	**378,849,904**	**401,187,970**	**424,471,696**

Volumes											
January	February	March	April	May	June	July	August	September	October	November	December
150,602,979	134,773,300	136,732,759	123,386,190	124,112,861	143,702,099	173,243,373	163,991,266	135,517,349	134,467,533	138,872,653	149,669,224
55,481,261	49,310,463	52,077,380	46,193,851	48,541,576	54,232,580	60,899,073	53,944,276	49,465,647	40,939,658	50,504,771	54,136,238
390,392	408,255	406,893	403,220	407,189	477,841	473,987	435,166	424,010	429,967	404,723	418,116
47,812	46,765	46,409	47,999	47,601	46,276	45,631	46,812	47,046	45,777	44,797	46,553
179,372	180,394	175,659	172,787	164,027	183,587	178,193	172,265	176,625	170,559	169,676	176,130
932,967	882,807	886,944	855,043	853,158	1,065,095	1,141,436	908,807	717,166	792,014	995,497	1,103,318
120	67	92	63	103	90	130	78	77	76	93	93
9,155	9,154	9,154	9,154	9,153	9,153	9,152	9,152	9,152	9,151	9,151	9,150
207,644,058	**185,611,207**	**190,335,290**	**171,068,308**	**174,135,668**	**199,716,721**	**235,990,976**	**219,507,822**	**186,357,073**	**176,854,735**	**191,001,361**	**205,558,822**

Volumes											
January	February	March	April	May	June	July	August	September	October	November	December
150,602,979	134,773,300	136,732,759	123,386,190	124,112,861	143,702,099	173,243,373	163,991,266	135,517,349	134,467,533	138,872,653	149,669,224
55,481,261	49,310,463	52,077,380	46,193,851	48,541,576	54,232,580	60,899,073	53,944,276	49,465,647	40,939,658	50,504,771	54,136,238
390,392	408,255	406,893	403,220	407,189	477,841	473,987	435,166	424,010	429,967	404,723	418,116
47,812	46,765	46,409	47,999	47,601	46,276	45,631	46,812	47,046	45,777	44,797	46,553
179,372	180,394	175,659	172,787	164,027	183,587	178,193	172,265	176,625	170,559	169,676	176,130
932,967	882,807	886,944	855,043	853,158	1,065,095	1,141,436	908,807	717,166	792,014	995,497	1,103,318
120	67	92	63	103	90	130	78	77	76	93	93
9,155	9,154	9,154	9,154	9,153	9,153	9,152	9,152	9,152	9,151	9,151	9,150
207,644,058	**185,611,207**	**190,335,290**	**171,068,308**	**174,135,668**	**199,716,721**	**235,990,976**	**219,507,822**	**186,357,073**	**176,854,735**	**191,001,361**	**205,558,822**

Volumes											
January	February	March	April	May	June	July	August	September	October	November	December
145,103,554	129,851,913	131,739,820	118,880,614	119,580,751	138,454,667	166,917,211	158,002,954	130,568,792	129,557,311	133,801,573	144,203,896
53,455,305	47,509,840	50,175,720	44,507,035	46,769,030	52,252,221	58,675,279	51,974,445	47,659,358	39,444,704	48,660,537	52,159,397
390,392	408,255	406,893	403,220	407,189	477,841	473,987	435,166	424,010	429,967	404,723	418,116
47,812	46,765	46,409	47,999	47,601	46,276	45,631	46,812	47,046	45,777	44,797	46,553
179,372	180,394	175,659	172,787	164,027	183,587	178,193	172,265	176,625	170,559	169,676	176,130
898,899	850,570	854,556	823,820	822,004	1,026,202	1,099,755	875,621	690,978	763,092	959,145	1,063,029
120	67	92	63	103	90	130	78	77	76	93	93
9,155	9,154	9,154	9,154	9,153	9,153	9,152	9,152	9,152	9,151	9,151	9,150
200,084,609	**178,856,960**	**183,408,304**	**164,844,693**	**167,799,858**	**192,450,037**	**227,399,340**	**211,516,492**	**179,576,038**	**170,420,638**	**184,049,696**	**198,076,364**

Volumes											
January	February	March	April	May	June	July	August	September	October	November	December
223,311	223,311	223,311	223,311	223,311	223,311	223,311	223,311	223,311	223,311	223,311	223,311
18,774	18,774	18,774	18,774	18,774	18,774	18,774	18,774	18,774	18,774	18,774	18,774
242,085	242,085	242,085	242,085	242,085	242,085	242,085	242,085	242,085	242,085	242,085	242,085

2018 Cost of Power Expense

Expense													
January	February	March	April	May	June	July	August	September	October	November	December	Total
$ 11,695,471	$ 10,466,175	$ 10,618,342	$ 9,581,879	$ 9,831,077	$ 11,382,756	$ 13,722,744	$ 12,989,877	$ 10,734,436	$ 10,651,279	$ 11,220,216	$ 12,092,525	**$ 134,986,777**
$ 3,762,454	$ 3,343,982	$ 3,531,620	$ 3,132,630	$ 3,357,677	$ 3,751,331	$ 4,212,460	$ 3,731,388	$ 3,421,596	$ 2,831,844	$ 3,563,343	$ 3,819,560	**$ 42,459,885**
$ 1,541,831	$ 1,414,931	$ 1,466,764	$ 1,353,475	$ 1,410,990	$ 1,513,252	$ 1,656,017	$ 1,610,818	$ 1,424,035	$ 1,338,294	$ 1,431,885	$ 1,548,842	**$ 17,711,133**
$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**
$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**
$ 74,077	$ 70,094	$ 70,423	$ 67,890	$ 69,095	$ 86,259	$ 92,442	$ 73,602	$ 58,081	$ 64,143	$ 82,235	$ 91,142	**$ 899,484**
$ 3,276	$ 2,035	$ 2,808	$ 1,925	$ 3,199	$ 2,605	$ 3,982	$ 2,387	$ 2,367	$ 1,790	$ 3,561	$ 2,894	**$ 32,829**
$ 2,406	$ 2,393	$ 2,030	$ 1,875	$ 1,656	$ 1,474	$ 1,606	$ 1,774	$ 2,049	$ 2,210	$ 2,503	$ 2,771	**$ 24,747**
$ 17,079,514	**$ 15,299,611**	**$ 15,691,987**	**$ 14,139,675**	**$ 14,673,694**	**$ 16,737,676**	**$ 19,689,250**	**$ 18,409,846**	**$ 15,642,564**	**$ 14,889,560**	**$ 16,303,744**	**$ 17,557,734**	**$ 196,114,855**

Expense													
January	February	March	April	May	June	July	August	September	October	November	December	Total
$ 188,252	$ 168,465	$ 170,914	$ 154,231	$ 130,655	$ 151,276	$ 182,375	$ 172,635	$ 142,660	$ 141,555	$ 149,116	$ 160,709	**$ 1,912,844**
$ 220,961	$ 196,385	$ 207,405	$ 183,973	$ 162,812	$ 181,900	$ 204,260	$ 180,933	$ 165,911	$ 137,314	$ 172,784	$ 185,208	**$ 2,199,845**
$ 3,438,763	$ 3,155,736	$ 3,271,340	$ 3,018,671	$ 2,598,312	$ 2,786,626	$ 3,049,525	$ 2,966,293	$ 2,622,334	$ 2,464,445	$ 2,636,791	$ 2,852,164	**$ 34,860,998**
$ 473,716	$ 434,340	$ 476,928	$ 467,389	$ 397,015	$ 319,697	$ 398,415	$ 395,940	$ 372,293	$ 394,109	$ 386,213	$ 386,696	**$ 4,902,750**
$ 869,891	$ 798,784	$ 800,237	$ 802,553	$ 571,221	$ 595,669	$ 585,190	$ 628,631	$ 580,289	$ 656,825	$ 699,006	$ 619,379	**$ 8,207,674**
$ 715	$ 677	$ 680	$ 655	$ 551	$ 687	$ 737	$ 587	$ 463	$ 511	$ 655	$ 726	**$ 7,644**
$ 9	$ 6	$ 8	$ 5	$ 7	$ 6	$ 9	$ 6	$ 6	$ 4	$ 8	$ 7	**$ 82**
$ 92,115	$ 91,620	$ 77,716	$ 71,795	$ 52,345	$ 46,575	$ 50,769	$ 56,061	$ 64,772	$ 69,847	$ 79,117	$ 87,579	**$ 840,313**
$ 5,284,423	**$ 4,846,012**	**$ 5,005,227**	**$ 4,699,272**	**$ 3,912,917**	**$ 4,082,437**	**$ 4,471,280**	**$ 4,401,086**	**$ 3,948,728**	**$ 3,864,610**	**$ 4,123,691**	**$ 4,292,467**	**$ 52,932,151**

Expense													
January	February	March	April	May	June	July	August	September	October	November	December	Total
$ 453,340	$ 405,690	$ 411,588	$ 371,413	$ 381,072	$ 441,218	$ 531,921	$ 503,513	$ 416,088	$ 412,865	$ 434,918	$ 468,730	**$ 5,232,355**
$ 532,108	$ 472,926	$ 499,463	$ 443,035	$ 474,863	$ 530,535	$ 595,751	$ 527,715	$ 483,902	$ 400,496	$ 503,949	$ 540,185	**$ 6,004,927**
$ 13,216,850	$ 12,129,039	$ 12,573,360	$ 11,602,229	$ 12,095,258	$ 12,971,866	$ 14,195,676	$ 13,808,225	$ 12,207,080	$ 11,472,099	$ 12,274,377	$ 13,276,950	**$ 151,823,008**
$ 1,820,723	$ 1,669,380	$ 1,833,069	$ 1,796,404	$ 1,848,123	$ 1,488,203	$ 1,854,641	$ 1,843,118	$ 1,733,042	$ 1,834,593	$ 1,797,837	$ 1,800,085	**$ 21,319,218**
$ 3,343,418	$ 3,070,117	$ 3,075,701	$ 3,084,603	$ 2,659,058	$ 2,772,868	$ 2,724,085	$ 2,926,307	$ 2,701,272	$ 3,057,548	$ 3,253,903	$ 2,883,235	**$ 35,552,115**
$ 2,748	$ 2,600	$ 2,613	$ 2,519	$ 2,563	$ 3,200	$ 3,430	$ 2,731	$ 2,155	$ 2,380	$ 3,051	$ 3,381	**$ 33,371**
$ 36	$ 22	$ 31	$ 21	$ 35	$ 28	$ 43	$ 26	$ 26	$ 19	$ 39	$ 32	**$ 357**
$ 354,044	$ 352,141	$ 298,699	$ 275,944	$ 243,667	$ 216,811	$ 236,334	$ 260,969	$ 301,517	$ 325,142	$ 368,295	$ 407,684	**$ 3,641,247**
$ 19,723,267	**$ 18,101,916**	**$ 18,694,523**	**$ 17,576,169**	**$ 17,704,639**	**$ 18,424,730**	**$ 20,141,881**	**$ 19,872,603**	**$ 17,845,082**	**$ 17,505,141**	**$ 18,636,368**	**$ 19,380,281**	**$ 223,606,599**

Expense													
January	February	March	April	May	June	July	August	September	October	November	December	Total
$ 587,352	$ 525,616	$ 533,258	$ 481,206	$ 484,040	$ 560,438	$ 675,649	$ 639,566	$ 528,518	$ 524,423	$ 541,603	$ 583,710	**$ 6,665,379**
$ 216,377	$ 192,311	$ 203,102	$ 180,156	$ 189,312	$ 211,507	$ 237,506	$ 210,383	$ 192,916	$ 159,665	$ 196,969	$ 211,131	**$ 2,401,334**
$ 661,140	$ 606,725	$ 628,951	$ 580,372	$ 593,172	$ 636,162	$ 696,179	$ 677,178	$ 598,655	$ 562,611	$ 590,153	$ 638,357	**$ 7,469,654**
$ 80,995	$ 74,262	$ 81,544	$ 79,913	$ 80,602	$ 64,905	$ 80,886	$ 80,383	$ 75,583	$ 80,012	$ 76,871	$ 76,967	**$ 932,923**
$ 148,732	$ 136,574	$ 136,823	$ 137,219	$ 115,969	$ 120,932	$ 118,805	$ 127,624	$ 117,810	$ 133,348	$ 139,129	$ 123,280	**$ 1,556,245**
$ 3,639	$ 3,443	$ 3,459	$ 3,335	$ 3,327	$ 4,154	$ 4,452	$ 3,544	$ 2,797	$ 3,089	$ 3,882	$ 4,303	**$ 43,424**
$ 157	$ 98	$ 135	$ 92	$ 150	$ 122	$ 187	$ 112	$ 111	$ 84	$ 164	$ 133	**$ 1,547**
$ 15,864	$ 15,779	$ 13,384	$ 12,364	$ 10,704	$ 9,524	$ 10,382	$ 11,464	$ 13,245	$ 14,283	$ 15,862	$ 17,558	**$ 160,413**
$ 1,714,255	**$ 1,554,807**	**$ 1,600,655**	**$ 1,474,658**	**$ 1,477,276**	**$ 1,607,745**	**$ 1,824,047**	**$ 1,750,255**	**$ 1,529,635**	**$ 1,477,515**	**$ 1,564,633**	**$ 1,655,440**	**$ 19,230,919**

Expense													
January	February	March	April	May	June	July	August	September	October	November	December	Total
$ 1,129,522	$ 1,010,800	$ 1,025,496	$ 925,396	$ 930,846	$ 1,077,766	$ 1,299,325	$ 1,229,934	$ 1,016,380	$ 1,008,506	$ 1,041,545	$ 1,122,519	**$ 12,818,037**
$ 366,176	$ 325,449	$ 343,711	$ 304,879	$ 320,374	$ 357,935	$ 401,934	$ 356,032	$ 326,473	$ 270,202	$ 333,331	$ 357,299	**$ 4,063,797**
$ 1,022,866	$ 1,069,670	$ 1,066,101	$ 1,056,476	$ 1,066,876	$ 1,251,992	$ 1,241,894	$ 1,140,178	$ 1,110,949	$ 1,126,556	$ 1,060,416	$ 1,095,505	**$ 13,309,479**
$ 143,101	$ 139,969	$ 138,902	$ 143,662	$ 142,469	$ 138,505	$ 136,574	$ 140,108	$ 140,809	$ 137,011	$ 134,079	$ 139,333	**$ 1,674,522**
$ 536,861	$ 539,920	$ 525,749	$ 517,153	$ 490,932	$ 549,476	$ 533,333	$ 515,589	$ 528,639	$ 510,484	$ 507,842	$ 527,158	**$ 6,283,136**
$ 6,251	$ 5,915	$ 5,943	$ 5,729	$ 5,716	$ 7,136	$ 7,648	$ 6,089	$ 4,805	$ 5,306	$ 6,670	$ 7,392	**$ 74,599**
$ 260	$ 147	$ 201	$ 138	$ 225	$ 196	$ 284	$ 169	$ 167	$ 166	$ 202	$ 202	**$ 2,357**
$ 18,882	$ 18,881	$ 18,880	$ 18,879	$ 18,878	$ 18,878	$ 18,877	$ 18,876	$ 18,875	$ 18,874	$ 18,873	$ 18,873	**$ 226,527**
$ 3,223,920	**$ 3,110,751**	**$ 3,124,981**	**$ 2,972,313**	**$ 2,976,318**	**$ 3,401,883**	**$ 3,639,869**	**$ 3,406,976**	**$ 3,147,099**	**$ 3,077,106**	**$ 3,102,958**	**$ 3,268,281**	**$ 38,452,453**

Expense													
January	February	March	April	May	June	July	August	September	October	November	December	Total
$ 903,618	$ 808,640	$ 820,397	$ 740,317	$ 744,677	$ 862,213	$ 1,039,460	$ 983,948	$ 813,104	$ 806,805	$ 833,236	$ 898,015	**$ 10,254,430**
$ 299,599	$ 266,277	$ 281,218	$ 249,447	$ 262,125	$ 292,856	$ 328,855	$ 291,299	$ 267,114	$ 221,074	$ 272,726	$ 292,336	**$ 3,324,925**
$ 848,166	$ 886,976	$ 884,016	$ 876,035	$ 884,659	$ 1,038,158	$ 1,029,785	$ 945,441	$ 921,205	$ 934,146	$ 879,302	$ 908,398	**$ 11,036,287**
$ 119,363	$ 116,750	$ 115,860	$ 119,831	$ 118,835	$ 115,529	$ 113,918	$ 116,866	$ 117,451	$ 114,282	$ 111,837	$ 116,220	**$ 1,396,740**
$ 447,803	$ 450,355	$ 438,534	$ 431,364	$ 409,493	$ 458,325	$ 444,860	$ 430,060	$ 440,945	$ 425,801	$ 423,597	$ 439,709	**$ 5,240,845**
$ 5,131	$ 4,855	$ 4,878	$ 4,703	$ 4,692	$ 5,858	$ 6,278	$ 4,998	$ 3,944	$ 4,356	$ 5,475	$ 6,068	**$ 61,238**
$ 209	$ 118	$ 161	$ 111	$ 180	$ 157	$ 228	$ 136	$ 134	$ 133	$ 162	$ 162	**$ 1,892**
$ 15,603	$ 15,603	$ 15,602	$ 15,601	$ 15,601	$ 15,600	$ 15,599	$ 15,599	$ 15,598	$ 15,597	$ 15,597	$ 15,596	**$ 187,196**
$ 2,639,492	**$ 2,549,572**	**$ 2,560,665**	**$ 2,437,408**	**$ 2,440,263**	**$ 2,788,695**	**$ 2,978,983**	**$ 2,788,346**	**$ 2,579,496**	**$ 2,522,196**	**$ 2,541,932**	**$ 2,676,504**	**$ 31,503,553**

Expense													
January	February	March	April	May	June	July	August	September	October	November	December	Total
$ 8,706	$ 7,791	$ 7,904	$ 7,133	$ 7,175	$ 8,307	$ 10,015	$ 9,480	$ 7,834	$ 7,773	$ 8,028	$ 8,652	**$ 98,800**
$ 3,207	$ 2,851	$ 3,011	$ 2,670	$ 2,806	$ 3,135	$ 3,521	$ 3,118	$ 2,860	$ 2,367	$ 2,920	$ 3,130	**$ 35,595**
$ 8,468	$ 8,855	$ 8,826	$ 8,746	$ 8,832	$ 10,364	$ 10,281	$ 9,439	$ 9,197	$ 9,326	$ 8,778	$ 9,069	**$ 110,180**
$ 1,191	$ 1,165	$ 1,157	$ 1,196	$ 1,186	$ 1,153	$ 1,137	$ 1,167	$ 1,172	$ 1,141	$ 1,116	$ 1,160	**$ 13,942**
$ 4,470	$ 4,495	$ 4,377	$ 4,306	$ 4,088	$ 4,575	$ 4,441	$ 4,293	$ 4,402	$ 4,250	$ 4,228	$ 4,389	**$ 52,314**
$ 54	$ 51	$ 51	$ 49	$ 49	$ 62	$ 66	$ 53	$ 41	$ 46	$ 58	$ 64	**$ 644**
$ 2	$ 1	$ 2	$ 1	$ 2	$ 2	$ 2	$ 1	$ 1	$ 1	$ 2	$ 2	**$ 19**
$ 156	$ 156	$ 156	$ 156	$ 156	$ 156	$ 156	$ 156	$ 156	$ 156	$ 156	$ 156	**$ 1,869**
$ 26,254	**$ 25,366**	**$ 25,483**	**$ 24,257**	**$ 24,294**	**$ 27,754**	**$ 29,618**	**$ 27,706**	**$ 25,663**	**$ 25,060**	**$ 25,286**	**$ 26,621**	**$ 313,362**

Expense													
January	February	March	April	May	June	July	August	September	October	November	December	Total
$ 175,969	$ 175,969	$ 175,969	$ 175,969	$ 175,969	$ 175,969	$ 175,969	$ 175,969	$ 175,969	$ 175,969	$ -	$ -	**$ 1,759,691**
$ 14,794	$ 14,794	$ 14,794	$ 14,794	$ 14,794	$ 14,794	$ 14,794	$ 14,794	$ 14,794	$ 14,794	$ -	$ -	**$ 147,939**
$ 190,763	**$ 190,763**	**$ 190,763**	**$ 190,763**	**$ 190,763**	**$ 190,763**	**$ 190,763**	**$ 190,763**	**$ 190,763**	**$ 190,763**	**$ -**	**$ -**	**$ 1,907,630**

HRZ - COP Calculation - Impact of the Fair Hydro Plan

	No FHP Impact	*FHP Impact*	*FHP Impact*
RPP Supply Cost Summary ($/MWh)	May 1, 2017 - April 30, 2018	May 1, 2017 - April 30, 2018	July 1, 2017 - April 30, 2018
Forecast Wholesale Electricity Price	22.81	22.81	22.81
Load-Weighted Price for RPP Consumers ($/MWh)	24.83	24.83	24.83
Impact of the Global Adjustment	87.67	70.39	54.93
Adjustment to Address Bias Towards Unfavourable Variance ($/MWh)	1.00	1.00	1.00
Adjustment to Clear Existing Variance ($/MWh)	1.40	1.40	1.40
Average Supply Cost for RPP Consumers ($/MWh)	**114.90**	**97.62**	**82.16**

Reference: Regulated Price Plan Price Report (May 1, 2017 to April 30, 2018), issued April 20, 2017; page 5

Reference: Regulated Price Plan Prices and the GA Modifier for the period July 1, 2017 to April 30, 2018, issued June 22, 2017; page2

Ontario Electricity Market Price Forecast (HOEP Forecast $/MWh)	On-Peak	Off-Peak	Average	Term Avg.
May 17 - Jul 17	26.49	11.55	18.45	
Aug 17 - Oct 17	31.3	16.57	23.26	
Nov 17 - Jan 18	34.57	20.47	26.89	
Feb 18 - Apr 18	29.32	16.95	22.63	**22.81**
May 18 - Jul 18	26.76	13.01	19.36	
Aug 18 - Oct 18	26.27	13.05	19.06	**19.21**

Reference: Regulated Price Plan Price Report (May 1, 2017 to April 30, 2018), issued April 20, 2017; page 13

Rate of Inflation	**2%**

COP Rates	**July 1, 2017 - April 30, 2018**	**May 1, 2018 - Oct 30, 2018**	**Nov 1, 2018 - Apr 30, 2019**	**May 1, 2019 - Oct 30, 2019**	**Nov 1, 2019 - Apr 30, 2020**
HOEP	22.81	19.21	19.59	19.99	20.39
RPP Rates_FHP	82.16	83.80	85.48	87.19	88.93
GA_FHP	54.93	56.03	57.15	58.29	59.46
GA	87.67	89.42	91.21	93.04	94.90

2018 - Custom IR	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total
Predicted Purchases													-
Residential	150,602,979	134,773,300	136,732,759	123,386,190	124,112,861	143,702,099	173,243,373	163,991,266	135,517,349	134,467,533	138,872,653	149,669,224	1,709,071,587
Rpp	142,349,936	127,387,723	129,239,804	116,624,626	117,311,477	135,827,224	163,749,637	155,004,545	128,090,998	127,098,712	131,262,432	141,467,350	1,615,414,464
Non Rpp	8,253,043	7,385,577	7,492,955	6,761,563	6,801,385	7,874,875	9,493,737	8,986,721	7,426,351	7,368,821	7,610,221	8,201,873	93,657,123
GS < 50	55,481,261	49,310,463	52,077,380	46,193,851	48,541,576	54,232,580	60,899,073	53,944,276	49,465,647	40,939,658	50,504,771	54,136,238	615,726,775
Rpp	45,794,233	40,700,856	42,984,670	38,128,405	40,066,217	44,763,572	50,266,094	44,525,605	40,828,945	33,791,594	41,686,638	44,684,051	508,220,880
Non Rpp	9,687,028	8,609,607	9,092,711	8,065,446	8,475,359	9,469,009	10,632,978	9,418,671	8,636,702	7,148,064	8,818,133	9,452,187	107,505,895
GS > 50	169,523,013	155,570,447	161,269,428	148,813,437	152,095,257	163,118,406	178,507,556	173,635,440	153,501,387	144,259,161	151,321,211	163,681,155	1,915,295,897
Rpp	18,766,197	17,221,648	17,852,526	16,473,647	16,836,945	18,057,208	19,760,786	19,221,443	16,992,604	15,969,489	16,751,258	18,119,504	212,023,256
Non Rpp	150,756,815	138,348,798	143,416,902	132,339,789	135,258,312	145,061,199	158,746,770	154,413,996	136,508,784	128,289,672	134,569,953	145,561,651	1,703,272,641
USL	932,967	882,807	886,944	855,043	853,158	1,065,095	1,141,436	908,807	717,166	792,014	995,497	1,103,318	11,134,250
Rpp	901,619	853,144	857,142	826,314	824,492	1,029,308	1,103,083	878,271	693,070	765,402	962,048	1,066,246	10,760,139
Non Rpp	31,348	29,662	29,801	28,729	28,666	35,787	38,352	30,536	24,097	26,612	33,449	37,071	374,111
Sentinel	40,274	25,025	34,527	23,674	38,559	31,401	48,001	28,771	28,535	21,575	42,084	34,206	396,631
Rpp	39,867	24,773	34,178	23,434	38,169	31,084	47,516	28,481	28,246	21,357	41,659	33,860	392,625
Non Rpp	407	253	349	239	389	317	485	291	288	218	425	345	4,006
Street Lighting	4,067,656	4,045,791	3,431,792	3,170,359	2,744,633	2,442,127	2,662,034	2,939,512	3,396,249	3,662,354	4,067,079	4,502,049	41,131,634
Rpp	29,287	29,130	24,709	22,827	19,761	17,583	19,167	21,164	24,453	26,369	29,283	32,415	296,148
Non Rpp	4,038,369	4,016,662	3,407,083	3,147,532	2,724,871	2,424,544	2,642,867	2,918,347	3,371,796	3,635,985	4,037,796	4,469,634	40,835,487
Standby													-
Rpp	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Rpp	-	-	-	-	-	-	-	-	-	-	-	-	-
Large Use	20,767,919	19,041,639	20,908,737	20,490,527	20,667,103	16,642,214	20,739,996	20,611,140	19,380,181	20,515,802	19,710,555	19,735,205	239,211,018
Rpp	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Rpp	20,767,919	19,041,639	20,908,737	20,490,527	20,667,103	16,642,214	20,739,996	20,611,140	19,380,181	20,515,802	19,710,555	19,735,205	239,211,018
Large Use with Dedicated Assets	38,136,398	35,019,020	35,082,711	35,184,252	29,735,594	31,008,299	30,462,778	32,724,177	30,207,664	34,191,807	35,674,121	31,610,302	399,037,123
Rpp	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Rpp	38,136,398	35,019,020	35,082,711	35,184,252	29,735,594	31,008,299	30,462,778	32,724,177	30,207,664	34,191,807	35,674,121	31,610,302	399,037,123
Total	439,552,466	398,668,492	410,424,277	378,117,332	378,788,740	412,242,221	467,704,246	448,783,389	392,214,178	378,849,904	401,187,970	424,471,696	4,931,004,914

2018 - Custom IR	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total
Billed kWh													-
Residential	145,103,554	129,851,913	131,739,820	118,880,614	119,580,751	138,454,667	166,917,211	158,002,954	130,568,792	129,557,311	133,801,573	144,203,896	1,646,663,057
GS < 50	53,455,305	47,509,840	50,175,720	44,507,035	46,769,030	52,252,221	58,675,279	51,974,445	47,659,358	39,444,704	48,660,537	52,159,397	593,242,870
GS > 50	163,332,703	149,889,630	155,380,506	143,379,359	146,541,340	157,161,968	171,989,167	167,294,961	147,896,124	138,991,387	145,795,559	157,704,167	1,845,356,871
USL	898,899	850,570	854,556	823,820	822,004	1,026,202	1,099,755	875,621	690,978	763,092	959,145	1,063,029	10,727,671
Sentinel	38,804	24,112	33,266	22,809	37,151	30,254	46,248	27,721	27,493	20,788	40,547	32,957	382,147
Street Lighting	3,919,121	3,898,055	3,306,477	3,054,590	2,644,410	2,352,950	2,564,827	2,832,172	3,272,231	3,528,619	3,918,565	4,337,652	39,629,670
Standby	-												-
Large Use	20,644,055	18,928,070	20,784,033	20,368,317	20,543,840	16,542,957	20,616,298	20,488,211	19,264,593	20,393,442	19,592,997	19,617,500	237,784,312
Large Use with Dedicated Assets	37,908,944	34,810,159	34,873,470	34,974,406	29,558,244	30,823,359	30,281,091	32,529,003	30,027,499	33,987,880	35,461,353	31,421,771	396,657,180
Total	425,301,385	385,762,349	397,147,848	366,010,950	366,496,769	398,644,577	452,189,877	434,025,087	379,407,068	366,687,223	388,230,276	410,540,369	4,770,443,778

2018 - Budget	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total
Billed kW													-
GS > 50	390,392	408,255	406,893	403,220	407,189	477,841	473,987	435,166	424,010	429,967	404,723	418,116	5,079,760
Large Use	47,812	46,765	46,409	47,999	47,601	46,276	45,631	46,812	47,046	45,777	44,797	46,553	559,479
Large Use with Dedicated Assets	179,372	180,394	175,659	172,787	164,027	183,587	178,193	172,265	176,625	170,559	169,676	176,130	2,099,277
Sentinel	120	67	92	63	103	90	130	78	77	76	93	93	1,083
Street Lighting	9,155	9,154	9,154	9,154	9,153	9,153	9,152	9,152	9,152	9,151	9,151	9,150	109,831
Standby	26,188	26,252	26,316	26,379	26,443	26,507	26,570	26,634	26,697	26,761	26,825	26,888	318,460
Total	653,039	670,889	664,523	659,603	654,516	743,454	733,665	690,106	683,607	682,292	655,266	676,930	8,167,890

EB-2014-0002
Settlement Proposal, September 22, 2014
Settlement Table 31 - 2018 Load Forecast (p.52)

JT.Staff-2

Ref: ERZ-Staff-Supp-2

Alectra ERZ has reconciling amounts in 1b, 2b and 4. All of these adjustments should be reflected in the Continuity Schedule and rate riders. Currently 2b is not reflected in the DVA Continuity Schedule. Alectra ERZ has correctly made an adjustment to DVA regarding adjustment 4 on the GA Analysis. An adjustment of $-2,356,765 has been made on DVA schedule for Account 1589. This should be $-826,764.

Response:

Alectra Utilities has updated the DVA Continuity Schedule for the Enersource rate zone to reflect item 2b from the GA Workform. The total adjustment to 1589 would be -$826,764. Table 1 below shows the revised GA balance that would be proposed for disposition and the allocation between current and former Class B customers. Table 2 shows the revised GA rate riders. An updated IRM Model for the Enersource rate zone is filed at JTStaff-2_Attach 1_IRM Model ERZ.

Table 1 – Revised GA Balance for Disposal

	GA Balance for Disposal ERZ-Staff-Supp-2	GA Balance for Disposal JT-Staff-2
Total GA Balance	$ (3,385,378)	$ (1,838,547)
New Class A Customer(s)' Former Class B Portion of GA Balance	$ (34,316)	$ (18,636)
GA Balance to be disposed to Current Class B Customers	$ (3,351,062)	$ (1,819,911)

Table 2 – Revised GA Rate Riders

Customer Class	Global Adjustment Rate Rider Non-RPP Class B Jan 1 - Dec 31, 2016 ERZ-Staff-Supp-2		Global Adjustment Rate Rider Non-RPP Class B Jan 1 - Dec 31, 2016 JT-Staff-2	
	$/kWh	$/kW	$/kWh	$/kW
RESIDENTIAL	(0.0009)		(0.0005)	
GENERAL SERVICE < 50 KW	(0.0009)		(0.0005)	
GENERAL SERVICE 50-499 KW	(0.0009)		(0.0005)	
GENERAL SERVICE 500-4999 KW	(0.0009)		(0.0005)	
LARGE USE	0.0000		0.0000	
UNMETERED & SCATTERED LOADS	(0.0009)		(0.0005)	
STREET LIGHTING	(0.0009)		(0.0005)	

INDEX

Model Specifications

Utility	Alectra - Enersource
Applying for Rates Effective	January 1, 2018
Line Loss Factor	1.0360

	Rate Classes (select from the List)
RES	RESIDENTIAL SERVICE CLASSIFICATION
GSL	GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION
GS50_499	GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION
GS500	GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION
LU	LARGE USE SERVICE CLASSIFICATION
SB	STANDBY POWER SERVICE CLASSIFICATION
USL	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION
SL	STREET LIGHTING SERVICE CLASSIFICATION

Have one or more Class A customers	Yes

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Version 1.0

Utility Name	Alectra Utilities - Enersource Rate Zone
Assigned EB Number	EB-2017-0024
Name of Contact and Title	Indy J. Butany-DeSouza, Vice-President, Regulatory Affairs
Phone Number	905-821-5727
Email Address	indy.butany@alectrautilities.com
We are applying for rates effective	Monday, January 01, 2018
Rate-Setting Method	**Price Cap IR**
Please indicate in which Rate Year the Group 1 accounts were last cleared[1]	**2017**
Please indicate the last Cost of Service Re-Basing Year	**2013**

Notes

Pale gray cells represent input cells.

Pale blue cells represent drop-down lists.

White cells contain fixed values, automatically generated values or formulae.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2016-0002

RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to all residential services including, without limitation, single family or single unit dwellings, multi-family dwellings, row-type dwellings and

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	19.11
Rate Rider for Smart Metering Entity Charge – effective until October 31, 2018	$	0.79
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$	0.60
Distribution Volumetric Rate	$/kWh	0.0069
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2017		
Applicable only for Non-RPP Customers	$/kWh	0.0013
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2017	$/kWh	(0.0020)
Low Voltage Service Rate	$/kWh	0.0002
Rate Rider for Disposition of Wholesale Market Service Sub-account CBR Class B (2017) - effective until December 31, 2017	$/kWh	0.0003
Retail Transmission Rate – Network Service Rate	$/kWh	0.0076
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0063

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0021
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0000
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2016-0002

ONTARIO ELECTRICITY SUPPORT PROGRAM RECIPIENTS

In addition to the charges specified on page 1 of this tariff of rates and charges, the following credits are to be applied to eligible residential customers.

APPLICATION

The application of the credits is in accordance with the Distribution System Code (Section 9) and subsection 79.2 of the Ontario Energy Board Act, 1998.

The application of these credits shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto In this class:

MONTHLY RATES AND CHARGES

Class A
(a) account-holders with a household income of $28,000 or less living in a household of one or two persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of three persons;
(c) account-holders with a household income of between $39,001 and $48,000 living in a household of five persons; and
(d) account-holders with a household income of between $48,001 and $52,000 living in a household of seven or more persons;
but does not include account-holders in Class E.

OESP Credit	$	(30.00)

Class B
(a) account-holders with a household income of $28,000 or less living in a household of three persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of four persons;
(c) account-holders with a household income of between $39,001 and $48,000 living in a household of six persons;
but does not include account-holders in Class F.

OESP Credit	$	(34.00)

Class C
(a) account-holders with a household income of $28,000 or less living in a household of four persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of five persons;
(c) account-holders with a household income of between $39,001 and $48,000 living in a household of seven or more persons;
but does not include account-holders in Class G.

OESP Credit	$	(38.00)

Class D
(a) account-holders with a household income of $28,000 or less living in a household of five persons; and
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of six persons;
but does not include account-holders in Class H.

OESP Credit	$	(42.00)

Class E
Class E comprises account-holders with a household income and household size described under Class A who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(45.00)

Class F
(a) account-holders with a household income of $28,000 or less living in a household of six or more persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of seven or more persons; or
(c) account-holders with a household income and household size described under Class B who also meet any of the following conditions:

i. the dwelling to which the account relates is heated primarily by electricity;
ii. the account-holder or any member of the account-holder's household is an Aboriginal person; or
iii. the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates

OESP Credit	$	(50.00)

Class G
Class G comprises account-holders with a household income and household size described under Class C who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2016-0002

OESP Credit	$	(55.00)

Class H

Class H comprises account-holders with a household income and household size described under Class D who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person ; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(60.00)

Class I

Class I comprises account-holders with a household income and household size described under paragraphs (a) or (b) of Class F who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(75.00)

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2016-0002

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account whose monthly average peak demand is less than, or is forecast to be less than, 50 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	43.60
Rate Rider for Smart Metering Entity Charge – effective until October 31, 2018	$	0.79
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$	1.10
Distribution Volumetric Rate	$/kWh	0.0127
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2017		
Applicable only for Non-RPP Customers	$/kWh	0.0013
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2017	$/kWh	(0.0020)
Low Voltage Service Rate	$/kWh	0.0002
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$/kWh	0.0003
Rate Rider for Disposition of Wholesale Market Service Sub-account CBR Class B (2017) - effective until December 31, 2017	$/kWh	0.0003
Retail Transmission Rate – Network Service Rate	$/kWh	0.0071
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0057

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0021
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0000
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2016-0002

GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVA amounts.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	76.79
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$	1.93
Distribution Volumetric Rate	$/kW	4.6213
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2017 Applicable only for Non-RPP Customers	$/kWh	0.0013
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2017 Applicable only for Non-Wholesale Market Participants	$/kW	(0.7227)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2017	$/kW	0.0291
Low Voltage Service Rate	$/kW	0.0802
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$/kW	0.1163
Rate Rider for Disposition of Wholesale Market Service Sub-account CBR Class B (2017) - effective until 31/12/2017 Applicable only for Non-Wholesale Market Participants	$/kW	0.0994
Retail Transmission Rate – Network Service Rate	$/kW	2.7431
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	2.2543

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0021
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0000
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

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EB-2016-0002

GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 500

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVA amounts.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	1,748.68
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$	44.00
Distribution Volumetric Rate	$/kW	2.3780
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2017 Applicable only for Non-RPP Customers	$/kWh	0.0013
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2017 Applicable only for Non-Wholesale Market Participants	$/kW	(0.9028)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2017	$/kW	0.0365
Low Voltage Service Rate	$/kW	0.0784
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$/kW	0.0598
Rate Rider for Disposition of Wholesale Market Service Sub-account CBR Class B (2017) - effective until 31/12/2017 Applicable only for Non-Wholesale Market Participants and Class B Customers	$/kW	0.1226
Retail Transmission Rate – Network Service Rate	$/kW	2.6539
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	2.2059

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0021
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0000
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2016-0002

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Further

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVA amounts.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	13,787.64
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$	346.90
Distribution Volumetric Rate	$/kW	2.9516
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2017 Applicable only for Non-RPP Customers	$/kWh	0.0013
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2017	$/kW	(1.0616)
Low Voltage Service Rate	$/kW	0.0838
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$/kW	0.0743
Rate Rider for Disposition of Wholesale Market Service Sub-account CBR Class B (2017) - effective until 31/12/2017 Applicable only for Class B Customers	$/kW	0.1451
Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.8320
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	$/kW	2.3560

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0021
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0000
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2016-0002

STANDBY DISTRIBUTION SERVICE CLASSIFICATION

This classification refers to an account that requires Enersource Hydro Mississauga to provide distribution service on a standby basis as a back-up supply to an on-site

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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MONTHLY RATES AND CHARGES – Delivery Component

A Standby Service Charge will be applied for a month where standby power is not provided. The applicable rate is the approved Distribution Volumetric Rate of the applicable service class and is applied to gross metered demand or contracted amount, whichever is greater. A monthly administration charge of $200, for simple metering arrangements, or $500, for complex metering arrangements, will also be applied.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2017

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EB-2016-0002

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	$	9.00
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$	0.23
Distribution Volumetric Rate	$/kWh	0.0164
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2017		
Applicable only for Non-RPP Customers	$/kWh	0.0013
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2017	$/kWh	(0.0020)
Low Voltage Service Rate	$/kWh	0.0002
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$/kWh	0.0004
Rate Rider for Disposition of Wholesale Market Service Sub-account CBR Class B (2017) - effective until December 31, 2017	$/kWh	0.0003
Retail Transmission Rate – Network Service Rate	$/kWh	0.0071
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0057

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0021
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0000
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

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Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

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EB-2016-0002

STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting. Street Lighting is unmetered where energy consumption is estimated based on the connected wattage and

APPLICATION

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per luminaire)	$	1.51
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$	0.04
Distribution Volumetric Rate	$/kW	11.5465
Rate Rider for Disposition of Global Adjustment Account (2018) - effective until December 31, 2017 Applicable only for Non-RPP Customers	$/kWh	0.0013
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2017	$/kW	(0.6889)
Low Voltage Service Rate	$/kW	0.0580
Rate Rider for Recovery of Incremental Capital Module Costs – in effect until the effective date of the next cost of service-based rate order	$/kW	0.2905
Rate Rider for Disposition of Wholesale Market Service Sub-account CBR Class B (2017) - effective until December 31, 2017	$/kW	0.0987
Retail Transmission Rate – Network Service Rate	$/kW	1.8997
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.6301

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0021
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0000
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Enersource Hydro Mississauga Inc.

TARIFF OF RATES AND CHARGES

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EB-2016-0002

microFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	$/kW	(0.4000)
Primary Metering Allowance for transformer losses – applied to measured demand and energy	%	(1.00)

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TARIFF OF RATES AND CHARGES

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EB-2016-0002

SPECIFIC SERVICE CHARGES

APPLICATION

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Customer Administration		
Arrears Certificate	$	15.00
Request for other billing information	$	15.00
Credit reference/credit check (plus credit agency costs)	$	15.00
Credit reference/credit check (plus credit agency costs – General Service)	$	25.00
Income tax letter	$	15.00
Returned cheque (plus bank charges)	$	12.50
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	$	30.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable – Residential)	$	20.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	$	10.00
Special meter reads	$	30.00
Interval meter request change	$	40.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge – no disconnection	$	9.00
Disconnect/Reconnect at meter - during regular hours	$	20.00
Disconnect/Reconnect at pole - during regular hours	$	185.00
Disconnect/Reconnect at pole - after regular hours	$	415.00
Other		
Temporary service install and remove – overhead – no transformer	$	400.00
Specific Charge for Access to the Power Poles – per pole/year (with the exception of wireless attachements)	$	22.35

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EB-2016-0002

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity		
One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00
Monthly Fixed Charge, per retailer	$	20.00
Monthly Variable Charge, per customer, per retailer	$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	$	0.25
Processing fee, per request, applied to the requesting party	$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	$	no charge
More than twice a year, per request (plus incremental delivery costs)	$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0360
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0256
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0045

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INCENTIVE REGULATION MODEL FOR 2018 FILERS

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

Account Descriptions	Account Number
Group 1 Accounts	
LV Variance Account	1550
Smart Metering Entity Charge Variance Account	1551
RSVA - Wholesale Market Service Charge	1580
Variance WMS – Sub-account CBR Class A	1580
Variance WMS – Sub-account CBR Class B	1580
RSVA - Retail Transmission Network Charge	1584
RSVA - Retail Transmission Connection Charge	1586
RSVA - Power	1588
RSVA - Global Adjustment	1589
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2016)[4]	
Not to be disposed of unless rate rider has expired and balance has been audited	1595
RSVA - Global Adjustment	**1589**
Total Group 1 Balance excluding Account 1589 - Global Adjustment	
Total Group 1 Balance	
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**
Total including Account 1568	

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

1 Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

2 For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

3 If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

4 Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE should match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

Account Descriptions	Account Number
Group 1 Accounts	
LV Variance Account	1550
Smart Metering Entity Charge Variance Account	1551
RSVA - Wholesale Market Service Charge	1580
Variance WMS – Sub-account CBR Class A	1580
Variance WMS – Sub-account CBR Class B	1580
RSVA - Retail Transmission Network Charge	1584
RSVA - Retail Transmission Connection Charge	1586
RSVA - Power	1588
RSVA - Global Adjustment	1589
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595
Disposition and Recovery/Refund of Regulatory Balances (2016)[4]	
Not to be disposed of unless rate rider has expired and balance has been audited	1595
RSVA - Global Adjustment	**1589**
Total Group 1 Balance excluding Account 1589 - Global Adjustment	
Total Group 1 Balance	
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**
Total including Account 1568	

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE should match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

		2014									
Account Descriptions	Account Number	Opening Principal Amounts as of Jan 1, 2014	Transactions[2] Debit / (Credit) during 2014	OEB-Approved Disposition during 2014	Principal Adjustments[1] during 2014	Closing Principal Balance as of Dec 31, 2014	Opening Interest Amounts as of Jan 1, 2014	Interest Jan 1 to Dec 31, 2014	OEB-Approved Disposition during 2014	Interest Adjustments[1] during 2014	Closing Interest Amounts as of Dec 31, 2014
Group 1 Accounts											
LV Variance Account	1550	2,495,672	938,909	1,690,690		1,743,891	51,132	20,670	41,280		30,521
Smart Metering Entity Charge Variance Account	1551	(36,015)	(33,601)			(69,617)	(148)	(668)	0		(816)
RSVA - Wholesale Market Service Charge	1580	(14,447,499)	(1,098,114)	(9,704,806)		(5,840,806)	(303,050)	(35,371)	(236,109)		(102,312)
Variance WMS – Sub-account CBR Class A	1580	0				0	0				0
Variance WMS – Sub-account CBR Class B	1580	0				0	0				0
RSVA - Retail Transmission Network Charge	1584	5,108,992	2,422,343	1,692,260		5,839,074	48,925	71,423	27,552		92,796
RSVA - Retail Transmission Connection Charge	1586	1,710,897	2,297,463	1,028,939		2,979,421	14,046	28,330	10,695		31,680
RSVA - Power	1588	(1,143,566)	(490,297)	716,650		(2,350,513)	(36,783)	2,507	(7,074)		(27,203)
RSVA - Global Adjustment	1589	389,458	7,999,426	(2,771,959)		11,160,843	(20,703)	59,399	(101,965)		140,661
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	(2,807,104)		(2,805,249)	1,855	0	(192,718)		(192,712)	6	(0)
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595	(3,681,077)	1,560,914			(2,120,163)	(653,023)	3,820			(649,202)
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	2,675	379			3,054	(5,660)	24			(5,637)
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	0	9,885,177	10,153,475		(268,298)	0	383,550	458,332		(74,782)
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4]											
Not to be disposed of unless rate rider has expired and balance has been audited	1595	0				0	0				0
RSVA - Global Adjustment	**1589**	389,458	7,999,426	(2,771,959)	0	11,160,843	(20,703)	59,399	(101,965)	0	140,661
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(12,797,025)	15,483,172	2,771,959	1,855	(83,957)	(1,077,280)	474,284	101,965	6	(704,955)
Total Group 1 Balance		(12,407,567)	23,482,598	0	1,855	11,076,886	(1,097,983)	533,682	0	6	(564,295)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**	61,419	12,857			74,276	5,868	689			6,557
Total including Account 1568		(12,346,148)	23,495,455	0	1,855	11,151,162	(1,092,115)	534,371	0	6	(557,738)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE should match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

		2015									
Account Descriptions	Account Number	Opening Principal Amounts as of Jan 1, 2015	Transactions[2] Debit / (Credit) during 2015	OEB-Approved Disposition during 2015	Principal Adjustments[1] during 2015	Closing Principal Balance as of Dec 31, 15	Opening Interest Amounts as of Jan 1, 15	Interest Jan 1 to Dec 31, 15	OEB-Approved Disposition during 2015	Interest Adjustments[1] during 2015	Closing Interest Amounts as of Dec 31, 15
Group 1 Accounts											
LV Variance Account	1550	1,743,891	1,545,687			3,289,578	30,521	26,398			56,920
Smart Metering Entity Charge Variance Account	1551	(69,617)	(26,931)			(96,548)	(816)	(903)			(1,719)
RSVA - Wholesale Market Service Charge	1580	(5,840,806)	(15,911,140)			(21,751,947)	(102,312)	(126,679)			(228,991)
Variance WMS – Sub-account CBR Class A	1580	0	163,061			163,061	0	521			521
Variance WMS – Sub-account CBR Class B	1580	0	1,719,664			1,719,664	0	5,728			5,728
RSVA - Retail Transmission Network Charge	1584	5,839,074	(1,557,809)			4,281,265	92,796	61,504			154,300
RSVA - Retail Transmission Connection Charge	1586	2,979,421	593,535			3,572,956	31,680	38,092			69,772
RSVA - Power	1588	(2,350,513)	1,362,016			(988,498)	(27,203)	(33,475)			(60,678)
RSVA - Global Adjustment	1589	11,160,843	4,890,995			16,051,838	140,661	139,601			280,261
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	0				0	(0)				(0)
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595	(2,120,163)	961			(2,119,201)	(649,202)	(25,254)			(674,456)
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	3,054	46			3,099	(5,637)	25			(5,611)
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	(268,298)	(5,336)			(273,634)	(74,782)	(2,969)			(77,752)
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4] *Not to be disposed of unless rate rider has expired and balance has been audited*	1595	0				0	0				0
RSVA - Global Adjustment	**1589**	11,160,843	4,890,995	0	0	16,051,838	140,661	139,601	0	0	280,261
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(83,957)	(12,116,247)	0	0	(12,200,204)	(704,955)	(57,012)	0	0	(761,967)
Total Group 1 Balance		11,076,886	(7,225,252)	0	0	3,851,634	(564,295)	82,589	0	0	(481,706)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**	74,276	2,209,737			2,284,013	6,557	63,437			69,994
Total including Account 1568		11,151,162	(5,015,515)	0	0	6,135,647	(557,738)	146,026	0	0	(411,712)

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Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE should match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

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		2016									
Account Descriptions	Account Number	Opening Principal Amounts as of Jan 1, 2016	Transactions[2] Debit / (Credit) during 2016	OEB-Approved Disposition during 2016	Principal Adjustments[1] during 2016	Closing Principal Balance as of Dec 31, 16	Opening Interest Amounts as of Jan 1, 16	Interest Jan 1 to Dec 31, 16	OEB-Approved Disposition during 2016	Interest Adjustments[1] during 2016	Closing Interest Amounts as of Dec 31, 16
Group 1 Accounts											
LV Variance Account	1550	3,289,578	2,290,282	1,743,890		3,835,970	56,920	33,129	49,706		40,343
Smart Metering Entity Charge Variance Account	1551	(96,548)	(33,444)	(69,617)		(60,375)	(1,719)	(621)	(1,582)		(759)
RSVA - Wholesale Market Service Charge	1580	(21,751,947)	(6,868,015)	(5,840,806)		(22,779,156)	(228,991)	(231,089)	(166,561)		(293,518)
Variance WMS – Sub-account CBR Class A	1580	163,061	(163,061)			0	521	(521)			0
Variance WMS – Sub-account CBR Class B	1580	1,719,664	(275,214)			1,444,449	5,728	16,472			22,200
RSVA - Retail Transmission Network Charge	1584	4,281,265	(568,201)	5,839,074		(2,126,009)	154,300	(7,167)	157,025		(9,892)
RSVA - Retail Transmission Connection Charge	1586	3,572,956	333,841	2,979,420		927,377	69,772	15,523	64,454		20,841
RSVA - Power	1588	(988,498)	(2,851,171)	(2,350,512)	2,500,544	1,011,388	(60,678)	(6,630)	(53,059)		(14,249)
RSVA - Global Adjustment	1589	16,051,838	(1,033,668)	11,160,843	(826,764)	3,030,563	280,261	96,151	263,430		112,982
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	0				0	(0)				(0)
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595	(2,119,201)	(961)	(2,120,163)		(0)	(674,456)	1,932	(672,524)		(0)
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	3,099	(46)	3,054		0	(5,611)	9	(5,602)		0
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	(273,634)	5,336	(268,298)		0	(77,752)	18	(77,734)		0
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	0	(11,165,511)	(11,106,926)		(58,585)	0	494,809	441,506		53,303
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4]											
Not to be disposed of unless rate rider has expired and balance has been audited	1595	0				0	0				0
RSVA - Global Adjustment	**1589**	16,051,838	(1,033,668)	11,160,843	(826,764)	3,030,563	280,261	96,151	263,430	0	112,982
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(12,200,204)	(19,296,166)	(11,190,884)	2,500,544	(17,804,941)	(761,967)	315,864	(264,371)	0	(181,732)
Total Group 1 Balance		3,851,634	(20,329,834)	(30,041)	1,673,780	(14,774,378)	(481,706)	412,015	(941)	0	(68,750)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**	2,284,013	1,131,354			3,415,367	69,994	29,555			99,548
Total including Account 1568		6,135,647	(19,198,480)	(30,041)	1,673,780	(11,359,012)	(411,712)	441,570	(941)	0	30,799

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Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE should match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

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		2017				Projected Interest on Dec-31-16 Balances			2.1.7 RRR	
Account Descriptions	Account Number	Principal Disposition during 2017 - instructed by OEB	Interest Disposition during 2017 - instructed by OEB	Closing Principal Balances as of Dec 31, 2017 Adjusted for Dispositions during 2017	Closing Interest Balances as of Dec 31, 16 Adjusted for Disposition in 2017	Projected Interest from Jan 1, 2017 to December 31, 2017 on Dec 31 -16 balance adjusted for disposition during 2017 [3]	Total Interest	Total Claim	As of Dec 31-16	Variance RRR vs. 2016 Balance *(Principal + Interest)*
Group 1 Accounts										
LV Variance Account	1550	1,545,688	24,215	2,290,282	16,127	25,193	41,320	2,331,602	3,876,312	0
Smart Metering Entity Charge Variance Account	1551	(26,931)	(434)	(33,444)	(325)	(368)	(693)	(34,137)	(61,134)	0
RSVA - Wholesale Market Service Charge	1580	(15,911,140)	(237,452)	(6,868,015)	(56,066)	(75,548)	(131,614)	(6,999,629)	(21,606,024)	1,466,650
Variance WMS – Sub-account CBR Class A	1580			0	0	0	0	0	0	0
Variance WMS – Sub-account CBR Class B	1580	1,719,664	24,645	(275,214)	(2,444)	(3,027)	(5,472)	(280,686)	1,466,650	0
RSVA - Retail Transmission Network Charge	1584	(1,557,808)	(19,862)	(568,201)	9,970	(6,250)	3,720	(564,482)	(2,135,901)	(0)
RSVA - Retail Transmission Connection Charge	1586	593,535	11,846	333,842	8,994	3,672	12,666	346,508	948,217	0
RSVA - Power	1588	1,362,016	7,363	(350,628)	(21,612)	(3,857)	(25,469)	(376,097)	(1,503,406)	(2,500,544)
RSVA - Global Adjustment	1589	4,890,994	70,633	(1,860,431)	42,349	(20,465)	21,884	(1,838,547)	3,970,308	826,763
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595			0	(0)	0	(0)	(0)	0	0
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595			(0)	(0)	(0)	(0)	(0)	0	0
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595			0	0	0	0	0	0	(0)
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595			0	0	0	0	0	0	(0)
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595			0	0	0	0	0	0	0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595			(58,585)	53,303	(644)	52,658	(5,926)	(5,282)	(0)
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595			0	0		0	0	0	0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4] *Not to be disposed of unless rate rider has expired and balance has been audited*	1595			0	0		0	0	0	0
RSVA - Global Adjustment	**1589**	4,890,994	70,633	(1,860,431)	42,349	(20,465)	21,884	(1,838,547)	3,970,308	826,763
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(12,274,977)	(189,678)	(5,529,964)	7,947	(60,830)	(52,883)	(5,582,847)	(20,487,217)	(2,500,544)
Total Group 1 Balance		(7,383,983)	(119,045)	(7,390,395)	50,295	(81,294)	(30,999)	(7,421,394)	(16,516,909)	(1,673,781)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**			3,415,367	99,548	37,569	137,117	3,652,032	3,514,915	0
Total including Account 1568		(7,383,983)	(119,045)	(3,975,028)	149,844	(43,725)	106,118	(3,769,362)	(13,001,994)	(1,673,781)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Information from the most recent RRR (2016 for 2018 IRM)

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*	*Approved Recoveries (class allocation %)* 1595 Recovery Proportion (2014) [1]	1595 Recovery Proportion (2015) [1]	1595 Recovery Proportion (2016) [1]	1568 LRAM Variance Account Class Allocation ($ amounts)	Number of Customers for Residential and GS<50 classes[3]
RESIDENTIAL SERVICE CLASSIFICATION	kWh	1,532,961,311		71,430,407				1,532,961,311	0	4.3%			-$335,775	182,224
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	665,390,671		105,904,811				665,390,671	0	3.7%			$387,638	18,025
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	kW	2,095,056,256	6,021,478	1,767,662,034	5,122,197	302,122	10,134	2,094,754,134	6,011,344	41.4%			$2,743,996	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	2,017,241,544	4,578,125	1,858,992,152	4,236,422	17,511,586	31,112	1,999,729,958	4,547,012	48.4%			$641,618	
LARGE USE SERVICE CLASSIFICATION	kW	989,946,991	1,770,337	989,946,991	1,770,337			989,946,991	1,770,337	1.4%			$154,853	
STANDBY POWER SERVICE CLASSIFICATION	kW							0	0					
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	11,246,374		640,021				11,246,374	0	0.0%				
STREET LIGHTING SERVICE CLASSIFICATION	kW	16,413,628	45,704	16,413,628	45,704			16,413,628	45,704	0.9%			-$1,313,773	
								0	0					
								0	0					
								0	0					
								0	0					
	Total	7,328,256,775	12,415,644	4,810,990,044	11,174,660	17,813,708	41,246	7,310,443,066	12,374,398	100%	0%	0%	$2,278,556	200,249

Threshold Test

Total Claim (including Account 1568)	($3,769,362)
Total Claim for Threshold Test (All Group 1 Accounts)	($7,421,394)
Threshold Test (Total claim per kWh) [2]	**($0.0010)**
Exceeds Threshold?	**Yes**
ELECT TO DISPOSE of the Group 1 Account Balances?	**Yes**

1568 Account Balance from Continuity Schedule	**$3,652,032**

Total Balance of Account 1568 in Column T DOES NOT MATCH the amount entered on the Continuity Schedule

As per Section 3.2.5 of the 2017 Filing Requirements for Electricity Distribution Rate Applications, an applicant may elect to dispose of the Group 1 account balances below the threshold.

[1] Residual Account balance to be allocated to rate classes in proportion to the recovery share as established when rate riders were implemented.

[2] The Threshold Test does not include the amount in 1568.

[3] The proportion of customers for the Residential and GS<50 Classes will be used to allocate Account 1551.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

No input required. This workshseet allocates the deferral/variance account balances (Group 1 and 1568) to the appropriate classes as per EDDVAR dated July 31, 2009

Allocation of Group 1 Accounts (including Account 1568)

Rate Class	% of Total kWh	% of Total non-RPP kWh	% of Customer Numbers **	% of Total kWh adjusted for WMP	1550	1551	1580 (allocated based on Total less WMP)	1584	1586	1588 (allocated based on Total less WMP)	1595_(2014)	1568
RESIDENTIAL SERVICE CLASSIFICATION	20.9%	1.5%	91.0%	21.0%	487,736	(31,064)	(1,467,785)	(118,081)	72,484	(78,866)	(254)	(335,775)
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	9.1%	2.2%	9.0%	9.1%	211,705	(3,073)	(637,101)	(51,254)	31,462	(34,232)	(217)	387,638
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	28.6%	36.7%	0.0%	28.7%	666,576	0	(2,005,693)	(161,378)	99,062	(107,768)	(2,453)	2,743,996
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	27.5%	38.6%	0.0%	27.4%	641,818	0	(1,914,709)	(155,384)	95,383	(102,879)	(2,867)	641,618
LARGE USE SERVICE CLASSIFICATION	13.5%	20.6%	0.0%	13.5%	314,967	0	(947,858)	(76,254)	46,808	(50,929)	(80)	154,853
STANDBY POWER SERVICE CLASSIFICATION	0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	0.2%	0.0%	0.0%	0.2%	3,578	0	(10,768)	(866)	532	(579)	(2)	0
STREET LIGHTING SERVICE CLASSIFICATION	0.2%	0.3%	0.0%	0.2%	5,222	0	(15,716)	(1,264)	776	(844)	(52)	(1,313,773)
	100.0%	100.0%	100.0%	100.0%	**2,331,602**	**(34,137)**	**(6,999,629)**	**(564,482)**	**346,508**	**(376,097)**	**(5,926)**	**2,278,556**

*** Used to allocate Account 1551 as this account records the variances arising from the Smart Metering Entity Charges to Residential and GS<50 customers.*

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this tab is to calculate the GA rate riders for all current Class B customers of the distributor.
Identify the total billed consumption for former Class B customers prior to becoming Class A customers in Column G.
Effective January 2017, the billing determinant and all rate riders for the disposition of GA balances will be calculated on an energy basis (kWhs) regardless of the billing determinant used for distribution rates for the particular class (see Chapter 3, Filing Requirements, section 3.2.5.2)

	Total Metered Non-RPP consumption minus WMP	Total Metered Class A Consumption in 2016 (partial and/or full year Class A customers)*	Total Metered Consumption for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan. 1 - June 30, 2016)	Total Metered Consumption for New Class B customer(s) in the period after becoming Class B (i.e. Jul 1 - Dec 31, 2016)	Metered Consumption for Current Class B Customers (Non-RPP consumption LESS WMP, Class A and new Class A's former Class B consumption if applicable)	% of total kWh	Total GA $ allocated to Current Class B Customers	GA Rate Rider
	kWh	kWh	kWh	kWh	kWh			
RESIDENTIAL SERVICE CLASSIFICATION	71,430,407				71,430,407	2.0%	($36,383)	-$0.0005
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	105,904,811				105,904,811	3.0%	($53,942)	-$0.0005
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	1,767,359,912				1,767,359,912	49.5%	($900,194)	-$0.0005
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	1,841,480,566	221,283,806	8,897,423		1,611,299,337	45.1%	($820,706)	-$0.0005
LARGE USE SERVICE CLASSIFICATION	989,946,991	962,255,516	27,691,475	0	0	0.0%	$0	
STANDBY POWER SERVICE CLASSIFICATION	0				0	0.0%	$0	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	640,021				640,021	0.0%	($326)	-$0.0005
STREET LIGHTING SERVICE CLASSIFICATION	16,413,628				16,413,628	0.5%	($8,360)	-$0.0005
	4,793,176,336	**1,183,539,322**	**36,588,898**	**-**	**3,573,048,116**	**100.0%**	**($1,819,911)**	

from Sheet 6B

*For new Class A customers (who became Class A in 2016), add their consumption only related to July to December period.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the GA balance to former Class B customers who contributed to the current GA balance but are now Class A customers. The tables below calculate specific amounts for each customer who made the change. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2015**	**(e.g. If in the 2017 EDR process, you received approval to dispose the GA variance account balance as of December 31, 2014, please enter 2014 in cell C16.)**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class A (Former Class B) customers

		Total	**2016**
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	3,609,637,013	3,609,637,013
New Class A Customer(s)' Former Class B Consumption	B	36,588,898	36,588,898
Portion of Consumption of Former Class B Customers	C=B/A	**1.01%**	

Allocation of Total GA Balance $

Total GA Balance	D	-$	1,838,547
New Class A Customer(s)' Former Class B Portion of GA Balance	E=C*D	-$	18,636
GA Balance to be disposed to Current Class B Customers	F=D-E	-$	1,819,911

Allocation of GA Balances to Former Class B Customers

# of Former Class B customer(s)								
Customer		**Total Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2016**	**% of kWh**	**Customer specific GA allocation for the period prior to becoming Class A**		**Monthly Equal Payments**	
Customer 1		27,691,475	27,691,475	75.68%	-$	14,104	-$	1,175
Customer 2		8,897,423	8,897,423	24.32%	-$	4,532	-$	378
Customer 3		0		0.00%	$	-	$	-
Total		36,588,898	36,588,898	100.00%	-$	18,636		

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the GA balance to former Class A customers who contributed to the current Class B GA balance once switched to Class B customers. The tables below calculate specific amounts for each customer who made the transition. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2015**	**(e.g. If in the 2017 EDR process, you received approval to dispose the GA variance account balance as of December 31, 2014, please enter 2014 in cell C16.)**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class B (Former Class A) customers

		Total	**2016**
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	-	
New Class B Customer(s)' Consumption	B	-	-
Portion of Consumption of New Class B Customers	C=B/A	**0.00%**	

Allocation of Total GA Balance $

Total GA Calss B Balance adjusted for Class A	D	-$	1,838,547	
New Class B Customer(s)' Former Class A Portion of GA Balance attributable to Class B	E=C*D	$	-	
New Class A Customer(s)' Former Class B Portion of GA Balance	F=Sheet 6A	-$	18,636	
GA Balance to be disposed to Current Class B Customers	**G=D-E-F**	**-$**	**1,819,911**	Input into Sheet 6. GA Calculation

Allocation of GA Balances to Former Class A Customers

# of Former Class B customer(s)						
Customer		**Total Metered kWh Consumption for each new Class B customer for the period after becoming Class B**	**Metered kWh Consumption for each new Class B customer for the period after becoming Class B in 2016**	**% of kWh**	**Customer specific GA allocation for the period after becoming Class B**	**Monthly Equal Payments**
Customer 1		0		0.00%	$ -	$ -
				0.00%	$ -	$ -
				0.00%	$ -	$ -
Total		0	0	0.00%	$ -	

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this tab is to calculate the CBR rate riders for all current Class B customers of the distributor.
Identify and input the total billed consumption for former Class B customers prior to becoming Class A customers in Column H.

Account 1580

Variance WMS – Sub-account CBR Class A	$	-
Variance WMS – Sub-account CBR Class B	-$	280,686

	Total Metered LESS WMP		Total Metered Class A Consumption/Demand in 2016 (partial and/or full year Class A customers)*		Total Metered Consumption/Demand for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan 1 - Jun 30, 2016)		Total Metered Consumption for New Class B customer(s) in the period after becoming Class B (i.e. Jul 1 - Dec 31, 2016)		Metered Consumption for Current Class B Customers (metered consumption/demand LESS WMP, Class A and new Class A's former Class B, if applicable)		% of total kWh	Total CBR $ allocated to Current Class B Customers	CBR Rate Rider
	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW			
RESIDENTIAL SERVICE CLASSIFICATION	1,532,961,311	0	0		0				1,532,961,311	0	25.170%	($70,228)	-$0.00005
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	665,390,671	0	0		0				665,390,671	0	10.925%	($30,483)	-$0.00005
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	2,094,754,134	6,011,344	0		0				2,094,754,134	6,011,344	34.395%	($95,965)	-$0.01596
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	1,999,729,958	4,547,012	221,283,806	446,799.23	8,897,423	19,616.17			1,769,548,729	4,080,597	29.055%	($81,067)	-$0.01987
LARGE USE SERVICE CLASSIFICATION	989,946,991	1,770,337	962,255,516	1,715,965.37	27,691,475	54,371.68			(0)	0	0.000%	$0	$0.00000
STANDBY POWER SERVICE CLASSIFICATION	0	0	0		0				0	0	0.000%	$0	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	11,246,374	0	0		0				11,246,374	0	0.185%	($515)	-$0.00005
STREET LIGHTING SERVICE CLASSIFICATION	16,413,628	45,704	0		0				16,413,628	45,704	0.270%	($752)	-$0.01645
0													
	7,310,443,066	**12,374,398**	**1,183,539,322**	**2,162,765**	**36,588,898**	**73,988**	**-**	**-**	**6,090,314,846**	**10,137,645**	**100.0%**	**($279,010)**	

from Sheet 7B

*For new Class A customers (who became Class A in 2016), add their consumption only related to July to December period.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the CBR balance to former Class B customers who contributed to the current CBR balance but are now Class A customers. The tables below calculate specific amounts for each customer who made the change. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2015**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class A (Former Class B) customers

		Total	**2016**
Total MeteredConsumption for Years Since Last Disposition (consumption LESS WMP and Class A)	A	6,126,903,744	6,126,903,744
New Class A Customer(s)' Former Class B Consumption	B	36,588,898	36,588,898
Portion of Consumption of Former Class B Customers	C=B/A	**0.60%**	

Allocation of Total CBR Class B Balance $

Total CBR-Class B Balance	D	-$	280,686
New Class A Customer(s)' Former Class B Portion of CBR-Class B Balance	E=C*D	-$	1,676
CBR-Class B Balance to be disposed to Current Class B Customers **(if no Class A to Class B Transition Customers)**	F=D-E	-$	279,010

Allocation of CBR Class B Balances to Former Class B Customers

# of Former Class B customer(s)			2			
Customer		**Total Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2016**	**% of kWh**	**Customer specific CBR-Class B allocation for the period prior to becoming Class A**	**Monthly Equal Payments**
Customer 1		27,691,475	27,691,475	75.68%	-$ 1,269	-$ 106
Customer 2		8,897,423	8,897,423	24.32%	-$ 408	-$ 34
Customer 3		0	0	0.00%	$ -	$ -
Total		36,588,898	36,588,898	100.00%	-$ 1,676	

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the CBR-Class B balance to former Class A customers who contributed to the current CBR-Class B balance once switched to Class B customers. The tables below calculate specific amounts for each customer who made the transition. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2015**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class B (Former Class A) customers

		Total	**2016**
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	-	
New Class B Customer(s)' Consumption	B	-	-
Portion of Consumption of New Class B Customers	C=B/A	**0.00%**	

Allocation of Total CBR-Class B Balance $

Total CBR-Calss B Balance adjusted for Class A	D	-$	280,686
New Class B Customer(s)' Former Class A Portion of CBR-Class B Balance attributable to Class B	E=C*D	$	-
New Class A Customer(s)' Former Class B Portion of CBR-Class B Balance	F=Sheet 6A	-$	1,676
CBR-Class B Balance to be disposed to Current Class B Customers	**G=D-E-F**	**-$**	**279,010**

Input into Sheet 7. CBR Calculation

Allocation of CBR-Class B Balances to Former Class A Customers

# of Former Class B customer(s)			2			
Customer		**Total Metered kWh Consumption for each new Class B customer for the period after becoming Class B**	**Metered kWh Consumption for each new Class B customer for the period after becoming Class B in 2016**	**% of kWh**	**Customer specific CBR-Class B allocation for the period after becoming Class B**	**Monthly Equal Payments**
Customer 1		0	0	0.00%	$ -	$ -
			0	0.00%	$ -	$ -
			0	0.00%	$ -	$ -
			0	0.00%	$ -	$ -
Total		0	0	0.00%	$ -	

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Input required at cell D13 only. This workshseet calculates rate riders related to the Deferral/Variance Account Disposition (if applicable) and rate riders for Account 1568. Rate Riders will not be generated for the microFIT class.

Default Rate Rider Recovery Period (in months)	**12**
Proposed Rate Rider Recovery Period (in months)	**12** Rate Rider Recovery to be used below

Rate Class	Unit	Total Metered kWh	Metered kW or kVA	Total Metered kWh less WMP consumption	Total Metered kW less WMP consumption	Allocation of Group 1 Account Balances to All Classes [2]	Allocation of Group 1 Account Balances to Non-WMP Classes Only (if Applicable) [2]	Deferral/Variance Account Rate Rider [2]	Deferral/Variance Account Rate Rider for Non-WMP (if applicable) [2]	Account 1568 Rate Rider	Revenue Reconcilation [1]
RESIDENTIAL SERVICE CLASSIFICATION	kWh	1,532,961,311	0	1,532,961,311	0	(1,135,829)		(0.0007)	0.0000	(0.0002)	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	665,390,671	0	665,390,671	0	(482,710)		(0.0007)	0.0000	0.0006	
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	kW	2,095,056,256	6,021,478	2,094,754,134	6,011,344	601,807	(2,113,461)	0.0999	(0.3516)	0.4557	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	2,017,241,544	4,578,125	1,999,729,958	4,547,012	578,949	(2,017,588)	0.1265	(0.4437)	0.1401	
LARGE USE SERVICE CLASSIFICATION	kW	989,946,991	1,770,337	989,946,991	1,770,337	(713,346)		(0.4029)	0.0000	0.0875	
STANDBY POWER SERVICE CLASSIFICATION	kW	0	0	0	0	0		0.0000	0.0000	0.0000	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	11,246,374	0	11,246,374	0	(8,106)		(0.0007)	0.0000	0.0000	
STREET LIGHTING SERVICE CLASSIFICATION	kW	16,413,628	45,704	16,413,628	45,704	(11,879)		(0.2599)	0.0000	(28.7451)	

(5,302,161)
0

[1] When calculating the revenue reconciliation for distributors with Class A customers, the balances of sub-account 1580-CBR Class A and B will not be taken into consideration since the rate riders, if any, are calculated outside of the model.

[2] Only for rate classes with WMP customers are the Deferral/Variance Account Rate Riders for Non-WMP (column H and J) calculated separately. For all rate classes without WMP customers, balances in account 1580 and 1588 are included in column H and disposed through a combined Deferral/Variance Account and Rate Rider.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Summary - Sharing of Tax Change Forecast Amounts

For the 2013 year, enter any Tax Credits from the Cost of Service Tax Calculation (Positive #)

1. Tax Related Amounts Forecast from Capital Tax Rate Changes	**2013**	**2018**
Taxable Capital **(if you are not claiming capital tax, please enter your OEB-Approved Rate Base)**		$ -
Deduction from taxable capital up to $15,000,000		$ -
Net Taxable Capital	$ -	$ -
Rate		0.00%
Ontario Capital Tax (Deductible, not grossed-up)	$ -	$ -
2. Tax Related Amounts Forecast from Income Tax Rate Changes		
Regulatory Taxable Income		$ -
Corporate Tax Rate	26.50%	15.00%
Tax Impact	$ -	$ -
Grossed-up Tax Amount	$ -	$ -
Tax Related Amounts Forecast from Capital Tax Rate Changes	$ -	$ -
Tax Related Amounts Forecast from Income Tax Rate Changes	$ -	$ -
Total Tax Related Amounts	$ -	$ -
Incremental Tax Savings		$ -
Sharing of Tax Amount (50%)		**$** -

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Calculation of Rebased Revenue Requirement and Allocation of Tax Sharing Amount. Enter data from the last OEB-Approved Cost of Service application in columns D through I.
As per Chapter 3 Filing Requirements, shared tax rate riders are based on a 1 year disposition.

Rate Class		Re-based Billed Customers or Connections	Re-based Billed kWh	Re-based Billed kW	Re-based Service Charge	Re-based Distribution Volumetric Rate kWh	Re-based Distribution Volumetric Rate kW	Service Charge Revenue	Distribution Volumetric Rate Revenue kWh	Distribution Volumetric Rate Revenue kW	Revenue Requirement from Rates	Service Charge % Revenue	Distribution Volumetric Rate % Revenue kWh	Distribution Volumetric Rate % Revenue kW	Total % Revenue
		A	B	C	D	E	F	G = A * D *12	H = B * E	I = C * F	J = G + H + I	K = G / J	L = H / J	M = I / J	N = J / R
RESIDENTIAL SERVICE CLASSIFICATION	kWh	140,979	1,308,264,983	0	11.07	0.0155	0.0000	18,727,675	20,278,107	0	39,005,782	48.0%	52.0%	0.0%	56.1%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	8,989	354,668,870	0	24.39	0.0161	0.0000	2,631,035	5,710,169	0	8,341,204	31.5%	68.5%	0.0%	12.0%
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	kW	1,491	1,064,497,599	2,979,826	121.18	0.0000	2.7446	2,167,752	0	8,178,430	10,346,182	21.0%	0.0%	79.0%	14.9%
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	115	806,154,180	1,969,146	1093.35	0.0000	3.1861	1,503,790	0	6,273,897	7,777,688	19.3%	0.0%	80.7%	11.2%
LARGE USE SERVICE CLASSIFICATION	kW	6	382,619,513	719,987	4549.67	0.0000	2.4122	327,576	0	1,736,753	2,064,329	15.9%	0.0%	84.1%	3.0%
STANDBY POWER SERVICE CLASSIFICATION	kW	1	0	54,580	0.00	0.0000	1.6224	0	0	88,551	88,551	0.0%	0.0%	100.0%	0.1%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	1,562	5,931,733	0	1.05	0.0192	0.0000	19,678	113,889	0	133,567	14.7%	85.3%	0.0%	0.2%
STREET LIGHTING SERVICE CLASSIFICATION	kW	22,335	33,306,955	100,672	2.22	0.0000	11.1563	594,993	0	1,123,126	1,718,119	34.6%	0.0%	65.4%	2.5%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
Total		175,477	3,955,443,833	5,824,211				25,972,498	26,102,165	17,400,756	69,475,420				100.0%

Rate Class		Total kWh (most recent RRR filing)	Total kW (most recent RRR filing)	Allocation of Tax Savings by Rate Class	Distribution Rate Rider	
RESIDENTIAL SERVICE CLASSIFICATION	kWh	1,532,961,311		$ -	$ -	$/Customer
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	665,390,671		$ -	$ -	$/kWh
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	kW	2,095,056,256	6,021,478	$ -	$ -	$/kW
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	2,017,241,544	4,578,125	$ -	$ -	$/kW
LARGE USE SERVICE CLASSIFICATION	kW	989,946,991	1,770,337	$ -	$ -	$/kWh
STANDBY POWER SERVICE CLASSIFICATION	kW			$ -		$/kWh
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	11,246,374		$ -	$ -	$/kW
STREET LIGHTING SERVICE CLASSIFICATION	kW	16,413,628	45,704	$ -	$ -	$/kW
				$ -		$/kWh
				$ -		$/kWh
				$ -		$/kW
				$ -		
				$ -		
		7,328,256,775	**12,415,644**	**$ -**		

If the allocated tax sharing amount does not produce a rate rider in one or more rate class (except for the Standby rate class), a distributor is required to transfer the entire OEB-approved tax sharing amount into account 1595 for disposition at a later date (see Filing Requirements, Appendix B)

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Columns F and G must match the data from the most recent RRR filing.
Rates have been imported from Tab 2. As well, the Loss Factor has been imported from "Model Specs" tab.
If the data needs to be modified, please make the necessary adjustments and note the changes in your manager's summary.

Rate Class	Rate Description	Unit	Rate	Non-Loss Adjusted Metered kWh	Non-Loss Adjusted Metered kW	Applicable Loss Factor	Loss Adjusted Billed kWh
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0076	1,532,961,311	0	1.0000	1,532,961,311
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0063	1,532,961,311	0	1.0000	1,532,961,311
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFI	Retail Transmission Rate – Network Service Rate	$/kWh	0.0071	665,390,671	0	1.0000	665,390,671
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFI	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0057	665,390,671	0	1.0000	665,390,671
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATIO	Retail Transmission Rate – Network Service Rate	$/kW	2.7431	2,095,056,256	6,021,478	1.0000	
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATIO	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	2.2543	2,095,056,256	6,021,478	1.0000	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICA	Retail Transmission Rate – Network Service Rate	$/kW	2.6539	2,017,241,544	4,578,125	1.0000	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICA	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	2.2059	2,017,241,544	4,578,125	1.0000	
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.8320	989,946,991	1,770,337	1.0000	
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	$/kW	2.3560	989,946,991	1,770,337	1.0000	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATIO	Retail Transmission Rate – Network Service Rate	$/kWh	0.0071	11,246,374	0	1.0000	11,246,374
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATIO	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0057	11,246,374	0	1.0000	11,246,374
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	1.8997	16,413,628	45,704	1.0000	
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.6301	16,413,628	45,704	1.0000	

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Uniform Transmission Rates	Unit	2016	2017	2018
Rate Description		**Rate**	**Rate**	**Rate**
Network Service Rate	kW	$ 3.66	$ 3.66	$ 3.66
Line Connection Service Rate	kW	$ 0.87	$ 0.87	$ 0.87
Transformation Connection Service Rate	kW	$ 2.02	$ 2.02	$ 2.02

Hydro One Sub-Transmission Rates	Unit	2016		2017	2018
		Jan - 2016	Feb - Dec 2016	Jan - Dec 2017	
Rate Description		**Rate**	**Rate**	**Rate**	**Rate**
Network Service Rate	kW	$ 3.4121	$ 3.3396	$ 3.1942	$ 3.1942
Line Connection Service Rate	kW	$ 0.7879	$ 0.7791	$ 0.7710	$ 0.7710
Transformation Connection Service Rate	kW	$ 1.8018	$ 1.7713	$ 1.7493	$ 1.7493
Both Line and Transformation Connection Service Rate	kW	$ 2.5897	$ 2.5504	$ 2.5203	$ 2.5203

If needed, add extra host here. (I)	Unit	2016	2017	2018
Rate Description		**Rate**	**Rate**	**Rate**
Network Service Rate	kW			
Line Connection Service Rate	kW			
Transformation Connection Service Rate	kW			
Both Line and Transformation Connection Service Rate	kW	$ -	$ -	$ -

If needed, add extra host here. (II)	Unit	2016	2017	2018
Rate Description		**Rate**	**Rate**	**Rate**
Network Service Rate	kW			
Line Connection Service Rate	kW			
Transformation Connection Service Rate	kW			
Both Line and Transformation Connection Service Rate	kW	$ -	$ -	$ -

		Historical 2016	Current 2017	Forecast 2018
Low Voltage Switchgear Credit (if applicable, enter as a negative value)	$			

INCENTIVE REGULATION MODEL FOR 2018 FILERS

In the green shaded cells, enter billing detail for wholesale transmission for the same reporting period as the billing determinants on Tab 10. For Hydro One Sub-transmission Rates, if you are charged a combined Line and Transformer connection rate, please ensure that both the Line Connection and Transformation Connection columns are completed.
If any of the Hydro One Sub-transmission rates (column E, I and M) are highlighted in orange, please double check the billing data entered in "Units Billed" and "Amount" columns. The highlighted rates do not match the Hydro One Sub-transmission rates approved for that time period. If data has been entered correctly, please provide explanation for the discrepancy in rates.

IESO	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	909,983	$3.66	$ 3,330,538	955,745	$0.87	$ 831,498	955,745	$2.02	$ 1,930,605	$ 2,762,103
February	889,727	$3.66	$ 3,256,401	910,492	$0.87	$ 792,128	910,492	$2.02	$ 1,839,194	$ 2,631,322
March	871,054	$3.66	$ 3,188,058	902,085	$0.87	$ 784,814	902,085	$2.02	$ 1,822,212	$ 2,607,026
April	811,023	$3.66	$ 2,968,344	881,686	$0.87	$ 767,067	881,686	$2.02	$ 1,781,006	$ 2,548,073
May	988,154	$3.66	$ 3,616,644	1,035,888	$0.87	$ 901,223	1,035,888	$2.02	$ 2,092,494	$ 2,993,716
June	1,184,897	$3.66	$ 4,336,723	1,218,367	$0.87	$ 1,059,979	1,218,367	$2.02	$ 2,461,101	$ 3,521,081
July	1,208,141	$3.66	$ 4,421,796	1,256,743	$0.87	$ 1,093,366	1,256,743	$2.02	$ 2,538,621	$ 3,631,987
August	1,167,958	$3.66	$ 4,274,726	1,242,334	$0.87	$ 1,079,090	1,242,334	$2.02	$ 2,505,473	$ 3,584,562
September	1,208,021	$3.66	$ 4,421,357	1,237,875	$0.87	$ 1,076,951	1,237,875	$2.02	$ 2,500,508	$ 3,577,459
October	774,872	$3.66	$ 2,836,032	850,858	$0.87	$ 740,246	850,858	$2.02	$ 1,718,733	$ 2,458,980
November	836,840	$3.66	$ 3,062,834	875,371	$0.87	$ 761,573	875,371	$2.02	$ 1,768,249	$ 2,529,822
December	926,036	$3.66	$ 3,389,292	969,415	$0.87	$ 843,391	969,415	$2.02	$ 1,958,218	$ 2,801,609
Total	11,776,706	$ 3.66	$ 43,102,744	12,336,859	$ 0.87	$ 10,731,326	12,336,859	$ 2.02	$ 24,916,413	$ 35,647,740

Hydro One	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	178,326	$3.41	$ 608,467	152,098	$0.79	$ 119,838	178,427	$1.80	$ 321,489	$ 441,327
February	187,238	$3.34	$ 625,299	160,709	$0.78	$ 125,209	187,470	$1.77	$ 332,066	$ 457,274
March	201,295	$3.34	$ 672,243	209,482	$0.78	$ 163,208	235,173	$1.77	$ 416,563	$ 579,770
April	174,377	$3.34	$ 582,350	149,087	$0.78	$ 116,154	174,564	$1.77	$ 309,206	$ 425,360
May	195,441	$3.34	$ 652,694	169,524	$0.78	$ 132,076	196,324	$1.77	$ 347,749	$ 479,825
June	203,970	$3.34	$ 681,179	176,513	$0.78	$ 137,521	203,970	$1.77	$ 361,293	$ 498,814
July	207,956	$3.34	$ 694,490	224,815	$0.78	$ 175,153	252,246	$1.77	$ 446,803	$ 621,956
August	203,838	$3.34	$ 680,738	220,353	$0.78	$ 171,677	247,195	$1.77	$ 437,856	$ 609,533
September	214,743	$3.34	$ 717,157	187,625	$0.78	$ 146,179	216,655	$1.77	$ 383,760	$ 529,939
October	189,011	$3.34	$ 631,221	164,024	$0.78	$ 127,791	189,250	$1.77	$ 335,218	$ 463,009
November	189,338	$3.34	$ 632,312	164,030	$0.78	$ 127,796	189,338	$1.77	$ 335,374	$ 463,170
December	207,026	$3.34	$ 691,384	178,207	$0.78	$ 138,841	208,088	$1.77	$ 368,586	$ 507,427
Total	2,352,559	$ 3.35	$ 7,869,535	2,156,467	$ 0.78	$ 1,681,442	2,478,699	$ 1.77	$ 4,395,961	$ 6,077,403

Total	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,088,309	$3.62	$ 3,939,005	1,107,843	$0.86	$ 951,336	1,134,172	$1.99	$ 2,252,094	$ 3,203,430
February	1,076,965	$3.60	$ 3,881,700	1,071,201	$0.86	$ 917,337	1,097,962	$1.98	$ 2,171,259	$ 3,088,596
March	1,072,349	$3.60	$ 3,860,301	1,111,567	$0.85	$ 948,022	1,137,258	$1.97	$ 2,238,774	$ 3,186,796
April	985,400	$3.60	$ 3,550,695	1,030,773	$0.86	$ 883,221	1,056,250	$1.98	$ 2,090,212	$ 2,973,433
May	1,183,595	$3.61	$ 4,269,338	1,205,412	$0.86	$ 1,033,299	1,232,212	$1.98	$ 2,440,243	$ 3,473,541
June	1,388,867	$3.61	$ 5,017,902	1,394,880	$0.86	$ 1,197,500	1,422,337	$1.98	$ 2,822,394	$ 4,019,894
July	1,416,097	$3.61	$ 5,116,286	1,481,558	$0.86	$ 1,268,520	1,508,989	$1.98	$ 2,985,424	$ 4,253,943
August	1,371,796	$3.61	$ 4,955,464	1,462,687	$0.86	$ 1,250,767	1,489,529	$1.98	$ 2,943,328	$ 4,194,095
September	1,422,764	$3.61	$ 5,138,514	1,425,500	$0.86	$ 1,223,130	1,454,530	$1.98	$ 2,884,268	$ 4,107,398
October	963,883	$3.60	$ 3,467,252	1,014,882	$0.86	$ 868,037	1,040,108	$1.97	$ 2,053,951	$ 2,921,989
November	1,026,178	$3.60	$ 3,695,147	1,039,401	$0.86	$ 889,368	1,064,709	$1.98	$ 2,103,623	$ 2,992,992
December	1,133,062	$3.60	$ 4,080,676	1,147,622	$0.86	$ 982,232	1,177,503	$1.98	$ 2,326,804	$ 3,309,036
Total	14,129,265	$ 3.61	$ 50,972,279	14,493,326	$ 0.86	$ 12,412,768	14,815,558	$ 1.98	$ 29,312,375	$ 41,725,143

Low Voltage Switchgear Credit (if applicable)	$ -
Total including deduction for Low Voltage Switchgear Credit	$ 41,725,143

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this sheet is to calculate the expected billing when current 2017 Uniform Transmission Rates are applied against historical 2016 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	909,983	$ 3.6600	$ 3,330,538	955,745	$ 0.8700	$ 831,498	955,745	$ 2.0200	$ 1,930,605	$ 2,762,103
February	889,727	$ 3.6600	$ 3,256,401	910,492	$ 0.8700	$ 792,128	910,492	$ 2.0200	$ 1,839,194	$ 2,631,322
March	871,054	$ 3.6600	$ 3,188,058	902,085	$ 0.8700	$ 784,814	902,085	$ 2.0200	$ 1,822,212	$ 2,607,026
April	811,023	$ 3.6600	$ 2,968,344	881,686	$ 0.8700	$ 767,067	881,686	$ 2.0200	$ 1,781,006	$ 2,548,073
May	988,154	$ 3.6600	$ 3,616,644	1,035,888	$ 0.8700	$ 901,223	1,035,888	$ 2.0200	$ 2,092,494	$ 2,993,716
June	1,184,897	$ 3.6600	$ 4,336,723	1,218,367	$ 0.8700	$ 1,059,979	1,218,367	$ 2.0200	$ 2,461,101	$ 3,521,081
July	1,208,141	$ 3.6600	$ 4,421,796	1,256,743	$ 0.8700	$ 1,093,366	1,256,743	$ 2.0200	$ 2,538,621	$ 3,631,987
August	1,167,958	$ 3.6600	$ 4,274,726	1,242,334	$ 0.8700	$ 1,080,831	1,242,334	$ 2.0200	$ 2,509,515	$ 3,590,345
September	1,208,021	$ 3.6600	$ 4,421,357	1,237,875	$ 0.8700	$ 1,076,951	1,237,875	$ 2.0200	$ 2,500,508	$ 3,577,459
October	774,872	$ 3.6600	$ 2,836,032	850,858	$ 0.8700	$ 740,246	850,858	$ 2.0200	$ 1,718,733	$ 2,458,980
November	836,840	$ 3.6600	$ 3,062,834	875,371	$ 0.8700	$ 761,573	875,371	$ 2.0200	$ 1,768,249	$ 2,529,822
December	926,036	$ 3.6600	$ 3,389,292	969,415	$ 0.8700	$ 843,391	969,415	$ 2.0200	$ 1,958,218	$ 2,801,609
Total	11,776,706	$ 3.66	$ 43,102,744	12,336,859	$ 0.87	$ 10,733,067	12,336,859	$ 2.02	$ 24,920,455	$ 35,653,523

Hydro One	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	178,326	$ 3.1942	$ 569,610	152,098	$ 0.7710	$ 117,268	178,427	$ 1.7493	$ 312,122	$ 429,390
February	187,238	$ 3.1942	$ 598,075	160,709	$ 0.7710	$ 123,907	187,470	$ 1.7493	$ 327,941	$ 451,848
March	201,295	$ 3.1942	$ 642,975	209,482	$ 0.7710	$ 161,511	235,173	$ 1.7493	$ 411,389	$ 572,900
April	174,377	$ 3.1942	$ 556,996	149,087	$ 0.7710	$ 114,946	174,564	$ 1.7493	$ 305,366	$ 420,312
May	195,441	$ 3.1942	$ 624,277	169,524	$ 0.7710	$ 130,703	196,324	$ 1.7493	$ 343,430	$ 474,133
June	203,970	$ 3.1942	$ 651,522	176,513	$ 0.7710	$ 136,091	203,970	$ 1.7493	$ 356,805	$ 492,897
July	207,956	$ 3.1942	$ 664,254	224,815	$ 0.7710	$ 173,332	252,246	$ 1.7493	$ 441,253	$ 614,586
August	203,838	$ 3.1942	$ 651,100	220,353	$ 0.7710	$ 169,892	247,195	$ 1.7493	$ 432,417	$ 602,310
September	214,743	$ 3.1942	$ 685,933	187,625	$ 0.7710	$ 144,659	216,655	$ 1.7493	$ 378,994	$ 523,653
October	189,011	$ 3.1942	$ 603,738	164,024	$ 0.7710	$ 126,462	189,250	$ 1.7493	$ 331,055	$ 457,517
November	189,338	$ 3.1942	$ 604,782	164,030	$ 0.7710	$ 126,467	189,338	$ 1.7493	$ 331,208	$ 457,675
December	207,026	$ 3.1942	$ 661,283	178,207	$ 0.7710	$ 137,397	208,088	$ 1.7493	$ 364,008	$ 501,405
Total	2,352,559	$ 3.19	$ 7,514,545	2,156,467	$ 0.77	$ 1,662,636	2,478,699	$ 1.75	$ 4,335,988	$ 5,998,624

Total	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,088,309	$ 3.5837	$ 3,900,148	1,107,843	$ 0.8564	$ 948,766	1,134,172	$ 1.9774	$ 2,242,727	$ 3,191,493
February	1,076,965	$ 3.5790	$ 3,854,476	1,071,201	$ 0.8551	$ 916,035	1,097,962	$ 1.9738	$ 2,167,135	$ 3,083,170
March	1,072,349	$ 3.5726	$ 3,831,033	1,111,567	$ 0.8513	$ 946,325	1,137,258	$ 1.9640	$ 2,233,600	$ 3,179,925
April	985,400	$ 3.5776	$ 3,525,340	1,030,773	$ 0.8557	$ 882,013	1,056,250	$ 1.9753	$ 2,086,371	$ 2,968,384
May	1,183,595	$ 3.5831	$ 4,240,921	1,205,412	$ 0.8561	$ 1,031,925	1,232,212	$ 1.9769	$ 2,435,923	$ 3,467,849
June	1,388,867	$ 3.5916	$ 4,988,245	1,394,880	$ 0.8575	$ 1,196,071	1,422,337	$ 1.9812	$ 2,817,907	$ 4,013,977
July	1,416,097	$ 3.5916	$ 5,086,050	1,481,558	$ 0.8550	$ 1,266,699	1,508,989	$ 1.9747	$ 2,979,874	$ 4,246,573
August	1,371,796	$ 3.5908	$ 4,925,826	1,462,687	$ 0.8551	$ 1,250,723	1,489,529	$ 1.9751	$ 2,941,932	$ 4,192,655
September	1,422,764	$ 3.5897	$ 5,107,290	1,425,500	$ 0.8570	$ 1,221,610	1,454,530	$ 1.9797	$ 2,879,501	$ 4,101,112
October	963,883	$ 3.5687	$ 3,439,770	1,014,882	$ 0.8540	$ 866,709	1,040,108	$ 1.9707	$ 2,049,788	$ 2,916,496
November	1,026,178	$ 3.5741	$ 3,667,617	1,039,401	$ 0.8544	$ 888,040	1,064,709	$ 1.9719	$ 2,099,458	$ 2,987,498
December	1,133,062	$ 3.5749	$ 4,050,574	1,147,622	$ 0.8546	$ 980,788	1,177,503	$ 1.9722	$ 2,322,226	$ 3,303,015
Total	14,129,265	$ 3.58	$ 50,617,289	14,493,326	$ 0.86	$ 12,395,703	14,815,558	$ 1.97	$ 29,256,443	$ 41,652,147

Low Voltage Switchgear Credit (if applicable)	$ -
Total including deduction for Low Voltage Switchgear Credit	$ 41,652,147

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this sheet is to calculate the expected billing when forecasted 2018 Uniform Transmission Rates are applied against historical 2016 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	909,983	$ 3.6600	$ 3,330,538	955,745	$ 0.8700	$ 831,498	955,745	$ 2.0200	$ 1,930,605	$ 2,762,103
February	889,727	$ 3.6600	$ 3,256,401	910,492	$ 0.8700	$ 792,128	910,492	$ 2.0200	$ 1,839,194	$ 2,631,322
March	871,054	$ 3.6600	$ 3,188,058	902,085	$ 0.8700	$ 784,814	902,085	$ 2.0200	$ 1,822,212	$ 2,607,026
April	811,023	$ 3.6600	$ 2,968,344	881,686	$ 0.8700	$ 767,067	881,686	$ 2.0200	$ 1,781,006	$ 2,548,073
May	988,154	$ 3.6600	$ 3,616,644	1,035,888	$ 0.8700	$ 901,223	1,035,888	$ 2.0200	$ 2,092,494	$ 2,993,716
June	1,184,897	$ 3.6600	$ 4,336,723	1,218,367	$ 0.8700	$ 1,059,979	1,218,367	$ 2.0200	$ 2,461,101	$ 3,521,081
July	1,208,141	$ 3.6600	$ 4,421,796	1,256,743	$ 0.8700	$ 1,093,366	1,256,743	$ 2.0200	$ 2,538,621	$ 3,631,987
August	1,167,958	$ 3.6600	$ 4,274,726	1,242,334	$ 0.8700	$ 1,080,831	1,242,334	$ 2.0200	$ 2,509,515	$ 3,590,345
September	1,208,021	$ 3.6600	$ 4,421,357	1,237,875	$ 0.8700	$ 1,076,951	1,237,875	$ 2.0200	$ 2,500,508	$ 3,577,459
October	774,872	$ 3.6600	$ 2,836,032	850,858	$ 0.8700	$ 740,246	850,858	$ 2.0200	$ 1,718,733	$ 2,458,980
November	836,840	$ 3.6600	$ 3,062,834	875,371	$ 0.8700	$ 761,573	875,371	$ 2.0200	$ 1,768,249	$ 2,529,822
December	926,036	$ 3.6600	$ 3,389,292	969,415	$ 0.8700	$ 843,391	969,415	$ 2.0200	$ 1,958,218	$ 2,801,609
Total	11,776,706	$ 3.66	$ 43,102,744	12,336,859	$ 0.87	$ 10,733,067	12,336,859	$ 2.02	$ 24,920,455	$ 35,653,523

Hydro One	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	178,326	$ 3.1942	$ 569,610	152,098	$ 0.7710	$ 117,268	178,427	$ 1.7493	$ 312,122	$ 429,390
February	187,238	$ 3.1942	$ 598,075	160,709	$ 0.7710	$ 123,907	187,470	$ 1.7493	$ 327,941	$ 451,848
March	201,295	$ 3.1942	$ 642,975	209,482	$ 0.7710	$ 161,511	235,173	$ 1.7493	$ 411,389	$ 572,900
April	174,377	$ 3.1942	$ 556,996	149,087	$ 0.7710	$ 114,946	174,564	$ 1.7493	$ 305,366	$ 420,312
May	195,441	$ 3.1942	$ 624,277	169,524	$ 0.7710	$ 130,703	196,324	$ 1.7493	$ 343,430	$ 474,133
June	203,970	$ 3.1942	$ 651,522	176,513	$ 0.7710	$ 136,091	203,970	$ 1.7493	$ 356,805	$ 492,897
July	207,956	$ 3.1942	$ 664,254	224,815	$ 0.7710	$ 173,332	252,246	$ 1.7493	$ 441,253	$ 614,586
August	203,838	$ 3.1942	$ 651,100	220,353	$ 0.7710	$ 169,892	247,195	$ 1.7493	$ 432,417	$ 602,310
September	214,743	$ 3.1942	$ 685,933	187,625	$ 0.7710	$ 144,659	216,655	$ 1.7493	$ 378,994	$ 523,653
October	189,011	$ 3.1942	$ 603,738	164,024	$ 0.7710	$ 126,462	189,250	$ 1.7493	$ 331,055	$ 457,517
November	189,338	$ 3.1942	$ 604,782	164,030	$ 0.7710	$ 126,467	189,338	$ 1.7493	$ 331,208	$ 457,675
December	207,026	$ 3.1942	$ 661,283	178,207	$ 0.7710	$ 137,397	208,088	$ 1.7493	$ 364,008	$ 501,405
Total	2,352,559	$ 3.19	$ 7,514,545	2,156,467	$ 0.77	$ 1,662,636	2,478,699	$ 1.75	$ 4,335,988	$ 5,998,624

Total	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,088,309	$ 3.58	$ 3,900,148	1,107,843	$ 0.86	$ 948,766	1,134,172	$ 1.98	$ 2,242,727	$ 3,191,493
February	1,076,965	$ 3.58	$ 3,854,476	1,071,201	$ 0.86	$ 916,035	1,097,962	$ 1.97	$ 2,167,135	$ 3,083,170
March	1,072,349	$ 3.57	$ 3,831,033	1,111,567	$ 0.85	$ 946,325	1,137,258	$ 1.96	$ 2,233,600	$ 3,179,925
April	985,400	$ 3.58	$ 3,525,340	1,030,773	$ 0.86	$ 882,013	1,056,250	$ 1.98	$ 2,086,371	$ 2,968,384
May	1,183,595	$ 3.58	$ 4,240,921	1,205,412	$ 0.86	$ 1,031,925	1,232,212	$ 1.98	$ 2,435,923	$ 3,467,849
June	1,388,867	$ 3.59	$ 4,988,245	1,394,880	$ 0.86	$ 1,196,071	1,422,337	$ 1.98	$ 2,817,907	$ 4,013,977
July	1,416,097	$ 3.59	$ 5,086,050	1,481,558	$ 0.85	$ 1,266,699	1,508,989	$ 1.97	$ 2,979,874	$ 4,246,573
August	1,371,796	$ 3.59	$ 4,925,826	1,462,687	$ 0.86	$ 1,250,723	1,489,529	$ 1.98	$ 2,941,932	$ 4,192,655
September	1,422,764	$ 3.59	$ 5,107,290	1,425,500	$ 0.86	$ 1,221,610	1,454,530	$ 1.98	$ 2,879,501	$ 4,101,112
October	963,883	$ 3.57	$ 3,439,770	1,014,882	$ 0.85	$ 866,709	1,040,108	$ 1.97	$ 2,049,788	$ 2,916,496
November	1,026,178	$ 3.57	$ 3,667,617	1,039,401	$ 0.85	$ 888,040	1,064,709	$ 1.97	$ 2,099,458	$ 2,987,498
December	1,133,062	$ 3.57	$ 4,050,574	1,147,622	$ 0.85	$ 980,788	1,177,503	$ 1.97	$ 2,322,226	$ 3,303,015
Total	14,129,265	$ 3.58	$ 50,617,289	14,493,326	$ 0.86	$ 12,395,703	14,815,558	$ 1.97	$ 29,256,443	$ 41,652,147
							Low Voltage Switchgear Credit (if applicable)			$ -
							Total including deduction for Low Voltage Switchgear Credit			$ 41,652,147

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this table is to re-align the current RTS Network Rates to recover current wholesale network costs.

Rate Class	Rate Description	Unit	Current RTSR-Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Adjusted RTSR Network
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0076	1,532,961,311	0	11,650,506	23.2%	11,742,100	0.0077
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0071	665,390,671	0	4,724,274	9.4%	4,761,415	0.0072
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.7431	0	6,021,478	16,517,517	32.9%	16,647,374	2.7647
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.6539	0	4,578,125	12,149,885	24.2%	12,245,405	2.6748
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.8320	0	1,770,337	5,013,595	10.0%	5,053,010	2.8543
STANDBY POWER SERVICE CLASSIFICATION									
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0071	11,246,374	0	79,849	0.2%	80,477	0.0072
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	1.8997	0	45,704	86,824	0.2%	87,507	1.9146

The purpose of this table is to re-align the current RTS Connection Rates to recover current wholesale connection costs.

Rate Class	Rate Description	Unit	Current RTSR-Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Adjusted RTSR-Connection
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kWh	0.0063	1,532,961,311	0	9,657,656	23.3%	9,708,736	0.0063
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kWh	0.0057	665,390,671	0	3,792,727	9.2%	3,812,787	0.0057
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kW	2.2543	0	6,021,478	13,574,218	32.8%	13,646,012	2.2662
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kW	2.2059	0	4,578,125	10,098,885	24.4%	10,152,298	2.2176
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kW	2.3560	0	1,770,337	4,170,914	10.1%	4,192,974	2.3685
STANDBY POWER SERVICE CLASSIFICATION									
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kWh	0.0057	11,246,374	0	64,104	0.2%	64,443	0.0057
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kW	1.6301	0	45,704	74,502	0.2%	74,896	1.6387

The purpose of this table is to update the re-aligned RTS Network Rates to recover future wholesale network costs.

Rate Class	Rate Description	Unit	Adjusted RTSR-Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Proposed RTSR-Network
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0077	1,532,961,311	0	11,742,100	23.2%	11,742,100	**0.0077**
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0072	665,390,671	0	4,761,415	9.4%	4,761,415	**0.0072**
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.7647	0	6,021,478	16,647,374	32.9%	16,647,374	**2.7647**
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.6748	0	4,578,125	12,245,405	24.2%	12,245,405	**2.6748**
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.8543	0	1,770,337	5,053,010	10.0%	5,053,010	**2.8543**
STANDBY POWER SERVICE CLASSIFICATION									
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0072	11,246,374	0	80,477	0.2%	80,477	**0.0072**
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	1.9146	0	45,704	87,507	0.2%	87,507	**1.9146**

The purpose of this table is to update the re-aligned RTS Connection Rates to recover future wholesale connection costs.

Rate Class	Rate Description	Unit	Adjusted RTSR-Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Proposed RTSR-Connection
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kWh	0.0063	1,532,961,311	0	9,708,736	23.3%	9,708,736	**0.0063**
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kWh	0.0057	665,390,671	0	3,812,787	9.2%	3,812,787	**0.0057**
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kW	2.2662	0	6,021,478	13,646,012	32.8%	13,646,012	**2.2662**
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kW	2.2176	0	4,578,125	10,152,298	24.4%	10,152,298	**2.2176**
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kW	2.3685	0	1,770,337	4,192,974	10.1%	4,192,974	**2.3685**
STANDBY POWER SERVICE CLASSIFICATION									
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kWh	0.0057	11,246,374	0	64,443	0.2%	64,443	**0.0057**
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service F	$/kW	1.6387	0	45,704	74,896	0.2%	74,896	**1.6387**

INCENTIVE REGULATION MODEL FOR 2018 FILERS

If applicable, please enter any adjustments related to the revenue to cost ratio model into columns C and E. The Price Escalator and Stretch Factor have been set at the 2016 values and will be updated by OEB staff at a later date.

Price Escalator	**1.90%**	**Productivity Factor**	**0.00%**	**# of Residential Customers (approved in the last CoS)**	176,865	**Effective Year of Residential Rate Design Transition (yyyy)**	2016
Choose Stretch Factor Group	III	**Price Cap Index**	**1.60%**	**Billed kWh for Residential Class (approved in the last CoS)**	1,423,857,475	**OEB-approved # of Transition Years**	4
Associated Stretch Factor Value	**0.30%**			**Rate Design Transition Years Left**	**2**		

Rate Class	Current MFC	MFC Adjustment from R/C Model	Current Volumetric Charge	DVR Adjustment from R/C Model	Price Cap Index to be Applied to MFC and DVR	Proposed MFC	Proposed Volumetric Charge
RESIDENTIAL SERVICE CLASSIFICATION	19.11		0.0069		1.60%	21.76	0.0036
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	43.60		0.0127		1.60%	44.30	0.0129
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	76.79		4.6213		1.60%	78.02	4.6952
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	1748.68		2.3780		1.60%	1,776.66	2.4160
LARGE USE SERVICE CLASSIFICATION	13787.64		2.9516		1.60%	14,008.24	2.9988
STANDBY POWER SERVICE CLASSIFICATION					1.60%	0.00	0.00
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	9.00		0.0164		1.60%	9.14	0.0167
STREET LIGHTING SERVICE CLASSIFICATION	1.51		11.5465		1.60%	1.53	11.7312
microFIT SERVICE CLASSIFICATION	5.40				1.60%	5.40	0.0000

Rate Design Transition		Revenue from Rates	Current F/V Split	Decoupling MFC Split	Incremental Fixed Charge ($/month/year)	New F/V Split	Adjusted Rates[1]	Revenue at New F/V Split
Current Residential Fixed Rate (inclusive of R/C adj.)	19.1100	40,558,682	80.5%	9.7%	2.31	90.3%	21.42	45,461,380
Current Residential Variable Rate (inclusive of R/C adj.)	0.0069	9,824,617	19.5%			9.7%	0.0035	4,983,501
		50,383,298						50,444,881

[1] These are the residential rates to which the Price Cap Index will be applied to.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Update the following rates if an OEB Decision has been issued at the time of completing this application

		Proposed
Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25
Ontario Electricity Support Program (OESP)	$/kWh	0.0000

Time-of-Use RPP Prices

As of		July 1, 2017
Off-Peak	$/kWh	0.0650
Mid-Peak	$/kWh	0.0950
On-Peak	$/kWh	0.1320

Debt Retirement Charge (DRC)

Debt Retirement Charge (DRC)	$/kWh	0.0070

If your utility's DRC differs from the value in Cell E29, please update this value.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

In the Green Cells below, enter any proposed rate riders that are not already included in this model (e.g.: proposed ICM rate riders). Please note that existing SMIRR and SM Entity Charge do not need to be included below.
In column A, the rate rider descriptions must begin with "Rate Rider for".
In column B, choose the associated unit from the drop-down menu.
In column C, enter the rate. All rate riders with a "$" unit should be rounded to 2 decimal places and all others rounded to 4 decimal places.
In column E, enter the expiry date (e.g. April 30, 2018) or description of the expiry date in text (e.g. the effective date of the next cost of service-based rate order).
In column G, choose the sub-total as applicable in the bill impact calculation from the drop-down menu

INPUT ICM RATE RIDERS ONLY

RESIDENTIAL SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.36	- effective until	the effective date of the next cost of service-based rate order	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.65	- effective until	the effective date of the next cost of service-based rate order	A
Rate Rider for Incremental Capital Module (ICM)	$/kWh	0.0002	- effective until	the effective date of the next cost of service-based rate order	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	1.15	- effective until	the effective date of the next cost of service-based rate order	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0692	- effective until	the effective date of the next cost of service-based rate order	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	26.20	- effective until	the effective date of the next cost of service-based rate order	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0356	- effective until	the effective date of the next cost of service-based rate order	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

LARGE USE SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	206.57	- effective until	the effective date of the next cost of service-based rate order	A
Rate Rider for Incremental Capital Module (ICM)	$/kWh	0.0442	- effective until	the effective date of the next cost of service-based rate order	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.13	- effective until	the effective date of the next cost of service-based rate order	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0002	- effective until	the effective date of the next cost of service-based rate order	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

STREET LIGHTING SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.02	- effective until	the effective date of the next cost of service-based rate order	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.1730	- effective until	the effective date of the next cost of service-based rate order	A
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

MICROFIT SERVICE CLASSIFICATION

			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Alectra - Enersource

TARIFF OF RATES AND CHARGES

Effective Date January 1, 2018

Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account where the electricity is supplied exclusively to single-family dwelling units for domestic or household purposes, including seasonal occupancy. This includes, but is not limited to, detached houses, one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex also qualify as residential customers. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	21.76
Distribution Volumetric Rate	$/kWh	0.0036
Low Voltage Service Rate	$/kWh	0.0002
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	$	0.79
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	0.60
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	$/kWh	(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	$/kWh	(0.0007)
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018	$/kWh	(0.00005)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	$/kWh	(0.0002)
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	0.36
Retail Transmission Rate – Network Service Rate	$/kWh	0.0077
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0063

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Alectra - Enersource
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

ONTARIO ELECTRICITY SUPPORT PROGRAM RECIPIENTS

In addition to the charges specified on page 1 of this tariff of rates and charges, the following credits are to be applied to eligible residential customers.

APPLICATION

The application of the charges are in accordance with the Distribution System Code (Section 9) and subsection 79.2(4) of the Ontario Energy Board Act, 1998.
The application of these charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as
In this class:

The application of these credits shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

In this class:
Aboriginal person includes a person who is a First Nations person, a Métis person or an Inuit person;
account-holder means a consumer who has an account with a distributor that falls within a residential-rate classification as specified in a rate order made by the Board under section 78 of the Act, and who lives at the service address to which the account relates for at least six months in a year;
electricity-intensive medical device means an oxygen concentrator, a mechanical ventilator or a kidney dialysis machine;
household means the account-holder and any other people living at the accountholder's service address for at least six months in a year, including people other than the account-holder's spouse, children or other relatives;
household income means the combined annual after-tax income of all members of a household aged 18 or over.

MONTHLY RATES AND CHARGES

Class A
(a) account-holders with a household income of $28,000 or less living in a household of one or two persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of three persons;
(c) account-holders with a household income of between $39,001 and $48,000 living in a household of five persons;
(d) account-holders with a household income of between $48,001 and $52,000 living in a household of seven or more persons;
but does not include account-holders in Class E.

OESP Credit	$	(30.00)

Class B
(a) account-holders with a household income of $28,000 or less living in a household of three persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of four persons;
(c) account-holders with a household income of between $39,001 and $48,000 living in a household of six persons;
but does not include account-holders in Class F.

OESP Credit	$	(34.00)

Class C
(a) account-holders with a household income of $28,000 or less living in a household of four persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of five persons;
(c) account-holders with a household income of between $39,001 and $48,000 living in a household of seven or more persons;
but does not include account-holders in Class G.

OESP Credit	$	(38.00)

Class D
(a) account-holders with a household income of $28,000 or less living in a household of five persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of six persons;
but does not include account-holders in Class H.

OESP Credit	$	(42.00)

Class E
Class E comprises account-holders with a household income and household size described under Class A who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(45.00)

Class F
(a) account-holders with a household income of $28,000 or less living in a household of six or more persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of seven or more persons; or
(c) account-holders with a household income and household size described under Class B who also meet any of the following conditions:
i. the dwelling to which the account relates is heated primarily by electricity;
ii. the account-holder or any member of the account-holder's household is an Aboriginal person; or
iii. the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(50.00)

Class G
Class G comprises account-holders with a household income and household size described under Class C who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(55.00)

Class H
Class H comprises account-holders with a household income and household size described under Class D who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or

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(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.		
OESP Credit	$	(60.00)

Class I

Class I comprises account-holders with a household income and household size described under paragraphs (a) or (b) of Class F who also meet any of the following conditions: (a) the dwelling to which the account relates is heated primarily by electricity; (b) the account-holder or any member of the account-holder's household is an Aboriginal person; or (c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.		
OESP Credit	$	(75.00)

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GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. Multi-unit residential establishments such as apartment buildings supplied through one service (bulk metered) shall normally be classified as general service. Where service is provided to combined residential and business, or residential and agricultural, whether seasonal or all-year premises, and the wiring does not provide for separate metering, the service shall normally be classed as general service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	44.30
Distribution Volumetric Rate	$/kWh	0.0129
Low Voltage Service Rate	$/kWh	0.0002
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	$	0.79
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	1.10
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kWh	0.0003
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	$/kWh	(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	$/kWh	(0.0007)
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018	$/kWh	(0.00005)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	$/kWh	0.0006
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	0.65
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kWh	0.0002
Retail Transmission Rate – Network Service Rate	$/kWh	0.0072
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0057

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25

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GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	78.02
Distribution Volumetric Rate	$/kW	4.6952
Low Voltage Service Rate	$/kW	0.0802
Transformer Discount	$/kW	(0.4000)
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	1.93
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kW	0.1163
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	$/kWh	(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018 - Applicable for Non-WMP	$/kW	(0.3516)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	$/kW	0.0999
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018 - Applicable for Non-WMP	$/kW	(0.01596)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	$/kW	0.4557
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	1.15
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kW	0.0692
Retail Transmission Rate – Network Service Rate	$/kW	2.7647
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	2.2662

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25

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GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	1,776.66
Distribution Volumetric Rate	$/kW	2.4160
Low Voltage Service Rate	$/kW	0.0784
Transformer Discount	$/kW	(0.4000)
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	44.00
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kW	0.0598
Rate Rider for Disposition of WMS Sub-account CBR Class B (2017) - effective until December 31, 2017 - Applicable for Non-WMP	$/kW	0.0000
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	$/kWh	(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018 - Applicable for Non-WMP	$/kW	(0.4437)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	$/kW	0.1265
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018 - Applicable for Non-WMP	$/kW	(0.01987)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	$/kW	0.1401
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	26.20
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kW	0.0356
Retail Transmission Rate – Network Service Rate	$/kW	2.6748
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	2.2176

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25

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LARGE USE SERVICE CLASSIFICATION

This classification applies to an account whose average monthly maximum demand over 12 consecutive months used for billing purposes is equal to or greater than 5,000 kW, or is

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	14,008.24
Distribution Volumetric Rate	$/kW	2.9988
Low Voltage Service Rate	$/kW	0.0838
Transformer Discount	$/kW	(0.4000)
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	346.90
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kW	0.0743
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	$/kW	(0.4029)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	$/kW	0.0875
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	206.57
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kW	0.0442
Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.8543
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered		2.3685

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25

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UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per connection)	$	9.14
Distribution Volumetric Rate	$/kWh	0.0167
Low Voltage Service Rate	$/kWh	0.0002
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	0.23
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kWh	0.0004
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	$/kWh	(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	$/kWh	(0.0007)
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018	$/kWh	(0.00005)
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	0.13
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kWh	0.0002
Retail Transmission Rate – Network Service Rate	$/kWh	0.0072
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0057

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25

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STREET LIGHTING SERVICE CLASSIFICATION

All service supplied to roadway lighting equipment owned by or operated by the City of Brampton, Regional Municipality of Peel, or the Ministry of Transportation, controlled by photo

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge (per luminaire)	$	1.53
Distribution Volumetric Rate	$/kW	11.7312
Low Voltage Service Rate	$/kW	0.0580
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	0.04
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kW	0.2905
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	$/kWh	(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	$/kW	(0.2599)
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018 - Applicable for Non-WMP	$/kW	(0.01645)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	$/kW	(28.7451)
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$	0.02
Rate Rider for Recovery of ICM - in effect until date of next cost of service	$/kW	0.1730
Retail Transmission Rate – Network Service Rate	$/kW	1.9146
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.6387

MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - Not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25

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STANDBY DISTRIBUTION SERVICE CLASSIFICATION

This classification refers to an account that requires Enersource Hydro Mississauga to provide distribution service on a standby basis as a back-up supply to an on-site generator. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

A Standby Service Charge will be applied for a month where standby power is not provided. The applicable rate is the approved Distribution Volumetric Rate of the applicable service class and is applied to gross metered demand or contracted amount, whichever is greater. A monthly administration charge of $200, for simple metering arrangements, or $500, for complex metering arrangements, will also be applied.

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microFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES - Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	$/kW	(0.40)
Primary Metering Allowance for transformer losses - applied to measured demand and energy	%	(1.00)

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SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Customer Administration		
Arrears Certificate	$	15.00
Request for other billing information	$	15.00
Credit reference/credit check (plus credit agency costs)	$	15.00
Credit reference/credit check (plus credit agency costs – General Service)	$	25.00
Income tax letter	$	15.00
Returned cheque (plus bank charges)	$	12.50
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	$	30.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable – Residential)	$	20.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	$	10.00
Special meter reads	$	30.00
Interval meter request change	$	40.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge – no disconnection	$	9.00
Disconnect/Reconnect at meter - during regular hours	$	20.00
Disconnect/Reconnect at pole - during regular hours	$	185.00
Disconnect/Reconnect at pole - after regular hours	$	415.00
Other		
Temporary service install and remove – overhead – no transformer	$	400.00
Specific Charge for Access to the Power Poles – per pole/year (with the exception of wireless attachements)	$	22.35

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RETAIL SERVICE CHARGES (if applicable)

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments, or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.		
One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00
Monthly Fixed Charge, per retailer	$	20.00
Monthly Variable Charge, per customer, per retailer	$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	$	0.25
Processing fee, per request, applied to the requesting party	$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	$	no charge
More than twice a year, per request (plus incremental delivery costs)	$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0360
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0256
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The bill comparisons below must be provided for typical customers and consumption levels. Bill impacts must be provided for residential customers consuming 750 kWh per month and general service customers consuming 2,000 kWh per month and having a monthly demand of less than 50 kW. Include bill comparisons for Non-RPP (retailer) as well. **To assess the combined effects of the shift to fixed rates and other bill impacts associated with changes in the cost of distribution service, applicants are to include a total bill impact for a residential customer at the distributor's 10th consumption percentile (In other words, 10% of a distributor's residential customers consume at or less than this level of consumption on a monthly basis). Refer to page 9 of the Filing Requirements For Electricity Distribution Rate Applications issued July 14, 2016.**

For certain classes where one or more customers have unique consumption and demand patterns and which may be significantly impacted by the proposed rate changes, the distributor must show a typical comparison, and provide an explanation.

Note:
1. For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of February 2017 of $0.1058/kWh (IESO's Monthly Market Report for February 2017, page 22) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact table for the specific class.
2. Please enter the applicable billing determinant (e.g. number of connections or devices) to be applied to the monthly service charge for unmetered rate classes in column N. If the monthly service charge is applied on a per customer basis, enter the number "1". Distributors should provide the number of connections or devices reflective of a typical customer in each class.

Table 1

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	**Units**	**RPP? Non-RPP Retailer? Non-RPP Other?**	**Current Loss Factor**	**Proposed Loss Factor**	**Consumption (kWh)**	**Demand kW (if applicable)**	**RTSR**	**Billing Determinant Applied to Fixed Charge for Unmetered Classes (e.g. # of devices/connections)**
RESIDENTIAL SERVICE CLASSIFICATION	**kWh**	RPP	1.0360	1.0360	750		**N/A**	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	**kWh**	RPP	1.0360	1.0360	2,000		**N/A**	
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	100,000	230	**DEMAND**	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	400,000	2,250	**DEMAND**	
LARGE USE SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0145	1.0145	3,000,000	5,000	**DEMAND**	
STANDBY POWER SERVICE CLASSIFICATION	**kW**		1.0360	1.0360	-	-	**DEMAND**	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	**kWh**	RPP	1.0360	1.0360	300		**N/A**	
STREET LIGHTING SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	33	0	**DEMAND**	
RESIDENTIAL SERVICE CLASSIFICATION	**kWh**	Non-RPP (Retailer)	1.0360	1.0360	750		**N/A**	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	**kWh**	Non-RPP (Retailer)	1.0360	1.0360	2,000		**N/A**	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	**kWh**	Non-RPP (Retailer)	1.0360	1.0360	300		**N/A**	
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	100,000	230	**DEMAND - INTERVAL**	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	400,000	2,250	**DEMAND - INTERVAL**	
LARGE USE SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0145	1.0145	3,000,000	5,000	**DEMAND - INTERVAL**	
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								

Table 2

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	Units	Sub-Total A		Sub-Total B		Sub-Total C		Total A + B + C	
		$	%	$	%	$	%	$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 0.39	1.55%	$ 1.10	4.10%	$ 1.18	3.13%	$ 1.23	1.15%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - RPP	kWh	$ 3.35	4.74%	$ 5.25	7.06%	$ 5.46	5.41%	$ 5.73	1.90%
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 140.10	11.99%	$ 35.21	2.98%	$ 42.91	1.84%	$ 48.49	0.29%
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 535.00	7.35%	$ 729.92	11.58%	$ 803.27	4.66%	$ 907.70	1.19%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 1,321.67	4.52%	$ 4,615.17	18.93%	$ 4,789.17	9.52%	$ 5,411.76	1.14%
STANDBY POWER SERVICE CLASSIFICATION -	kW	$ -	0.00%	$ -	0.00%	$ -	0.00%	$ -	0.00%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	$ 0.42	2.94%	$ 0.70	4.79%	$ 0.74	3.94%	$ 0.77	1.57%
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ (2.80)	-102.38%	$ (2.83)	-99.04%	$ (2.82)	-88.07%	$ (3.19)	-39.20%
RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 0.39	1.55%	$ (0.25)	-0.89%	$ (0.17)	-0.44%	$ (0.18)	-0.14%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 3.35	4.74%	$ 1.65	2.09%	$ 1.86	1.76%	$ 1.95	0.53%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 0.42	2.94%	$ 0.16	1.07%	$ 0.20	1.01%	$ 0.22	0.35%
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 138.58	11.86%	$ (16.31)	-1.38%	$ (8.61)	-0.37%	$ (9.73)	-0.06%
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 535.83	7.36%	$ 530.74	8.42%	$ 604.09	3.50%	$ 682.62	0.96%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 1,321.67	4.52%	$ (10.33)	-0.04%	$ 163.67	0.30%	$ 184.95	0.04%
	0								

Customer Class:	**RESIDENTIAL SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	
Consumption	**750**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0360**	
Proposed/Approved Loss Factor	**1.0360**	

	Current OEB-Approved			Proposed			Impact	
	Rate	Volume	Charge	Rate	Volume	Charge		
	($)		($)	($)		($)	$ Change	% Change
Monthly Service Charge	$ 19.11	1	$ 19.11	$ 21.76	1	$ 21.76	$ 2.65	13.87%
Distribution Volumetric Rate	$ 0.0069	750	$ 5.18	$ 0.00	750	$ 2.70	$ (2.48)	-47.83%
Fixed Rate Riders	$ 0.60	1	$ 0.60	$ 0.96	1	$ 0.96	$ 0.36	60.00%
Volumetric Rate Riders	$ -	750	$ -	$ (0.0002)	750	$ (0.15)	$ (0.15)	
Sub-Total A (excluding pass through)			$ 24.89			$ 25.27	**$ 0.39**	**1.55%**
Line Losses on Cost of Power	$ 0.0822	27	$ 2.22	$ 0.0822	27	$ 2.22	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0017	750	$ (1.28)	-$ 0.00075	750	$ (0.56)	$ 0.71	-55.88%
GA Rate Riders								
Low Voltage Service Charge	$ 0.0002	750	$ 0.15	$ 0.0002	750	$ 0.15	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 26.77**			**$ 27.87**	**$ 1.10**	**4.10%**
RTSR - Network	$ 0.0076	777	$ 5.91	$ 0.0077	777	$ 5.98	$ 0.08	1.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0063	777	$ 4.90	$ 0.0063	777	$ 4.90	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 37.57**			**$ 38.74**	**$ 1.18**	**3.13%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	777	$ 2.80	$ 0.0036	777	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	777	$ 0.23	$ 0.0003	777	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0950	128	$ 12.11	$ 0.0950	128	$ 12.11	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 102.47**			**$ 103.64**	**$ 1.18**	**1.15%**
HST	13%		$ 13.32	13%		$ 13.47	$ 0.15	1.15%
8% Provincial Rebate	-8%		$ (8.20)	-8%		$ (8.29)	$ (0.09)	1.15%
Total Bill on TOU			**$ 107.59**			**$ 108.83**	**$ 1.23**	**1.15%**

Customer Class:	**GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	
Consumption	**2,000**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0360**	
Proposed/Approved Loss Factor	**1.0360**	

	Current OEB-Approved			Proposed			Impact	
	Rate	Volume	Charge	Rate	Volume	Charge		
	($)		($)	($)		($)	$ Change	% Change
Monthly Service Charge	$ 43.60	1	$ 43.60	$ 44.30	1	$ 44.30	$ 0.70	1.61%
Distribution Volumetric Rate	$ 0.0127	2000	$ 25.40	$ 0.0129	2000	$ 25.80	$ 0.40	1.57%
Fixed Rate Riders	$ 1.10	1	$ 1.10	$ 1.75	1	$ 1.75	$ 0.65	59.09%
Volumetric Rate Riders	$ 0.0003	2000	$ 0.60	$ 0.0011	2000	$ 2.20	$ 1.60	266.67%
Sub-Total A (excluding pass through)			$ 70.70			$ 74.05	**$ 3.35**	**4.74%**
Line Losses on Cost of Power	$ 0.0822	72	$ 5.92	$ 0.0822	72	$ 5.92	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0017	2,000	$ (3.40)	-$ 0.00075	2,000	$ (1.50)	$ 1.90	-55.88%
GA Rate Riders								
Low Voltage Service Charge	$ 0.0002	2,000	$ 0.40	$ 0.0002	2,000	$ 0.40	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 74.41**			**$ 79.66**	**$ 5.25**	**7.06%**
RTSR - Network	$ 0.0071	2,072	$ 14.71	$ 0.0072	2,072	$ 14.92	$ 0.21	1.41%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0057	2,072	$ 11.81	$ 0.0057	2,072	$ 11.81	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 100.93**			**$ 106.38**	**$ 5.46**	**5.41%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,072	$ 7.46	$ 0.0036	2,072	$ 7.46	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,072	$ 0.62	$ 0.0003	2,072	$ 0.62	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ 0.0070	2,000	$ 14.00	$ -	0.00%
TOU - Off Peak	$ 0.0650	1,300	$ 84.50	$ 0.0650	1,300	$ 84.50	$ -	0.00%
TOU - Mid Peak	$ 0.0950	340	$ 32.30	$ 0.0950	340	$ 32.30	$ -	0.00%
TOU - On Peak	$ 0.1320	360	$ 47.52	$ 0.1320	360	$ 47.52	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 287.58**			**$ 293.04**	**$ 5.46**	**1.90%**
HST	13%		$ 37.39	13%		$ 38.09	$ 0.71	1.90%
8% Provincial Rebate	-8%		$ (23.01)	-8%		$ (23.44)	$ (0.44)	1.90%
Total Bill on TOU			**$ 301.96**			**$ 307.69**	**$ 5.73**	**1.90%**

Customer Class:	**GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION**
RPP / Non-RPP:	**Non-RPP (Other)**
Consumption	**100,000** kWh
Demand	**230** kW
Current Loss Factor	**1.0360**
Proposed/Approved Loss Factor	**1.0360**

	Current OEB-Approved			Proposed			Impact	
	Rate	Volume	Charge	Rate	Volume	Charge		
	($)		($)	($)		($)	$ Change	% Change
Monthly Service Charge	$ 76.79	1	$ 76.79	$ 78.02	1	$ 78.02	$ 1.23	1.60%
Distribution Volumetric Rate	$ 4.6213	230	$ 1,062.90	$ 4.6952	230	$ 1,079.90	$ 17.00	1.60%
Fixed Rate Riders	$ 1.93	1	$ 1.93	$ 3.08	1	$ 3.08	$ 1.15	59.59%
Volumetric Rate Riders	$ 0.1163	230	$ 26.75	$ 0.6412	230	$ 147.48	$ 120.73	451.33%
Sub-Total A (excluding pass through)			$ 1,168.37			$ 1,308.47	**$ 140.10**	**11.99%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	-$ 0.5942	230	$ (136.67)	-$ 0.26766	230	$ (61.56)	$ 75.10	-54.95%
GA Rate Riders	$ 0.0013	100,000	$ 130.00	-$ 0.0005	100,000	$ (50.00)	$ (180.00)	-138.46%
Low Voltage Service Charge	$ 0.0802	230	$ 18.45	$ 0.0802	230	$ 18.45	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 1,180.15**			**$ 1,215.36**	**$ 35.21**	**2.98%**
RTSR - Network	$ 2.7431	230	$ 630.91	$ 2.7647	230	$ 635.88	$ 4.97	0.79%
RTSR - Connection and/or Line and Transformation Connection	$ 2.2543	230	$ 518.49	$ 2.2662	230	$ 521.23	$ 2.74	0.53%
Sub-Total C - Delivery (including Sub-Total B)			**$ 2,329.55**			**$ 2,372.46**	**$ 42.91**	**1.84%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	103,600	$ 372.96	$ 0.0036	103,600	$ 372.96	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	103,600	$ 31.08	$ 0.0003	103,600	$ 31.08	$ -	0.00%
Standard Supply Service Charge	$ 0.25		$ -	$ 0.25		$ -	$ -	
Debt Retirement Charge (DRC)	$ 0.0070	100,000	$ 700.00	$ 0.0070	100,000	$ 700.00	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1101	103,600	$ 11,406.36	$ 0.1101	103,600	$ 11,406.36	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 14,839.95**			**$ 14,882.86**	**$ 42.91**	**0.29%**
HST	13%		$ 1,929.19	13%		$ 1,934.77	$ 5.58	0.29%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 16,769.14**			**$ 16,817.64**	**$ 48.49**	**0.29%**

Customer Class:	**GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION**
RPP / Non-RPP:	**Non-RPP (Other)**
Consumption	**400,000** kWh
Demand	**2,250** kW
Current Loss Factor	**1.0360**
Proposed/Approved Loss Factor	**1.0360**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 1,748.68	1	$ 1,748.68	$ 1,776.66	1	$ 1,776.66	$ 27.98	1.60%
Distribution Volumetric Rate	$ 2.3780	2250	$ 5,350.50	$ 2.4160	2250	$ 5,436.00	$ 85.50	1.60%
Fixed Rate Riders	$ 44.00	1	$ 44.00	$ 70.20	1	$ 70.20	$ 26.20	59.55%
Volumetric Rate Riders	$ 0.0598	2250	$ 134.55	$ 0.2355	2250	$ 529.88	$ 395.33	293.81%
Sub-Total A (excluding pass through)			$ 7,277.73			$ 7,812.74	**$ 535.00**	**7.35%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	-$ 0.7437	2,250	$ (1,673.33)	-$ 0.33707	2,250	$ (758.41)	$ 914.92	-54.68%
GA Rate Riders	$ 0.0013	400,000	$ 520.00	-$ 0.0005	400,000	$ (200.00)	-$ 720.00	-138.46%
Low Voltage Service Charge	$ 0.0784	2,250	$ 176.40	$ 0.0784	2,250	$ 176.40	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 6,300.81**			**$ 7,030.73**	**$ 729.92**	**11.58%**
RTSR - Network	$ 2.6539	2,250	$ 5,971.28	$ 2.6748	2,250	$ 6,018.30	$ 47.02	0.79%
RTSR - Connection and/or Line and Transformation Connection	$ 2.2059	2,250	$ 4,963.28	$ 2.2176	2,250	$ 4,989.60	$ 26.32	0.53%
Sub-Total C - Delivery (including Sub-Total B)			**$ 17,235.36**			**$ 18,038.63**	**$ 803.27**	**4.66%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	414,400	$ 1,491.84	$ 0.0036	414,400	$ 1,491.84	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	414,400	$ 124.32	$ 0.0003	414,400	$ 124.32	$ -	0.00%
Standard Supply Service Charge	$ 0.25		$ -	$ 0.25		$ -	$ -	
Debt Retirement Charge (DRC)	$ 0.0070	400,000	$ 2,800.00	$ 0.0070	400,000	$ 2,800.00	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1101	414,400	$ 45,625.44	$ 0.1101	414,400	$ 45,625.44	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 67,276.96**			**$ 68,080.23**	**$ 803.27**	**1.19%**
HST	13%		$ 8,746.00	13%		$ 8,850.43	$ 104.43	1.19%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 76,022.96**			**$ 76,930.66**	**$ 907.70**	**1.19%**

Customer Class:	**LARGE USE SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	**Class A**
Consumption	**3,000,000**	**kWh**
Demand	**5,000**	**kW**
Current Loss Factor	**1.0145**	
Proposed/Approved Loss Factor	**1.0145**	

	Current OEB-Approved			Proposed			Impact	
	Rate	Volume	Charge	Rate	Volume	Charge		
	($)		($)	($)		($)	$ Change	% Change
Monthly Service Charge	$ 13,787.64	1	$ 13,787.64	$ 14,008.24	1	$ 14,008.24	$ 220.60	1.60%
Distribution Volumetric Rate	$ 2.9516	5000	$ 14,758.00	$ 2.9988	5000	$ 14,994.00	$ 236.00	1.60%
Fixed Rate Riders	$ 346.90	1	$ 346.90	$ 553.47	1	$ 553.47	$ 206.57	59.55%
Volumetric Rate Riders	$ 0.0743	5000	$ 371.50	$ 0.2060	5000	$ 1,030.00	$ 658.50	177.25%
Sub-Total A (excluding pass through)			$ 29,264.04			$ 30,585.71	**$ 1,321.67**	**4.52%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	-$ 1.0616	5,000	$ (5,308.00)	-$ 0.40290	5,000	$ (2,014.50)	$ 3,293.50	-62.05%
GA Rate Riders	$ -	3,000,000	$ -	$ -	3,000,000	$ -	$ -	
Low Voltage Service Charge	$ 0.0838	5,000	$ 419.00	$ 0.0838	5,000	$ 419.00	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -		1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 24,375.04**			**$ 28,990.21**	**$ 4,615.17**	**18.93%**
RTSR - Network	$ 2.8320	5,000	$ 14,160.00	$ 2.8543	5,000	$ 14,271.50	$ 111.50	0.79%
RTSR - Connection and/or Line and Transformation Connection	$ 2.3560	5,000	$ 11,780.00	$ 2.3685	5,000	$ 11,842.50	$ 62.50	0.53%
Sub-Total C - Delivery (including Sub-Total B)			**$ 50,315.04**			**$ 55,104.21**	**$ 4,789.17**	**9.52%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	3,043,500	$ 10,956.60	$ 0.0036	3,043,500	$ 10,956.60	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	3,043,500	$ 913.05	$ 0.0003	3,043,500	$ 913.05	$ -	0.00%
Standard Supply Service Charge		1	$ -		1	$ -	$ -	
Debt Retirement Charge (DRC)	$ 0.0070	3,000,000	$ 21,000.00	$ 0.0070	3,000,000	$ 21,000.00	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1101	3,043,500	$ 335,089.35	$ 0.1101	3,043,500	$ 335,089.35	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 418,274.04**			**$ 423,063.21**	**$ 4,789.17**	**1.14%**
HST	13%		$ 54,375.63	13%		$ 54,998.22	$ 622.59	1.14%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 472,649.67**			**$ 478,061.43**	**$ 5,411.76**	**1.14%**

Customer Class:	**UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	
Consumption	**300**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0360**	
Proposed/Approved Loss Factor	**1.0360**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 9.00	1	$ 9.00	$ 9.14	1	$ 9.14	$ 0.14	1.56%
Distribution Volumetric Rate	$ 0.0164	300	$ 4.92	$ 0.0167	300	$ 5.01	$ 0.09	1.83%
Fixed Rate Riders	$ 0.23	1	$ 0.23	$ 0.36	1	$ 0.36	$ 0.13	56.52%
Volumetric Rate Riders	$ 0.0004	300	$ 0.12	$ 0.0006	300	$ 0.18	$ 0.06	50.00%
Sub-Total A (excluding pass through)			$ 14.27			$ 14.69	**$ 0.42**	**2.94%**
Line Losses on Cost of Power	$ 0.0822	11	$ 0.89	$ 0.0822	11	$ 0.89	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0017	300	$ (0.51)	-$ 0.00075	300	$ (0.23)	$ 0.29	-55.88%
GA Rate Riders			$ -			$ -	$ -	
Low Voltage Service Charge	$ 0.0002	300	$ 0.06	$ 0.0002	300	$ 0.06	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 14.71**			**$ 15.41**	**$ 0.70**	**4.79%**
RTSR - Network	$ 0.0071	311	$ 2.21	$ 0.0072	311	$ 2.24	$ 0.03	1.41%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0057	311	$ 1.77	$ 0.0057	311	$ 1.77	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 18.69**			**$ 19.42**	**$ 0.74**	**3.94%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	311	$ 1.12	$ 0.0036	311	$ 1.12	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	311	$ 0.09	$ 0.0003	311	$ 0.09	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	300	$ 2.10	$ 0.0070	300	$ 2.10	$ -	0.00%
							$ -	
TOU - Off Peak	$ 0.0650	195	$ 12.68	$ 0.0650	195	$ 12.68	$ -	0.00%
TOU - Mid Peak	$ 0.0950	51	$ 4.85	$ 0.0950	51	$ 4.85	$ -	0.00%
TOU - On Peak	$ 0.1320	54	$ 7.13	$ 0.1320	54	$ 7.13	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 46.90**			**$ 47.63**	**$ 0.74**	**1.57%**
HST	13%		$ 6.10	13%		$ 6.19	$ 0.10	1.57%
Total Bill on TOU (before 8% Provincial Rebate)			$ 52.99			$ 53.82	$ 0.83	1.57%
8% Provincial Rebate	-8%		$ (3.75)	-8%		$ (3.81)	$ (0.06)	1.57%
Total Bill on TOU			**$ 49.24**			**$ 50.01**	**$ 0.77**	**1.57%**

Customer Class:	**STREET LIGHTING SERVICE CLASSIFICATION**
RPP / Non-RPP:	**Non-RPP (Other)**
Consumption	**33** kWh
Demand	**0** kW
Current Loss Factor	**1.0360**
Proposed/Approved Loss Factor	**1.0360**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 1.51	1	$ 1.51	$ 1.53	1	$ 1.53	$ 0.02	1.32%
Distribution Volumetric Rate	$ 11.5465	0.1	$ 1.15	$ 11.7312	0.1	$ 1.17	$ 0.02	1.60%
Fixed Rate Riders	$ 0.04	1	$ 0.04	$ 0.06	1	$ 0.06	$ 0.02	50.00%
Volumetric Rate Riders	$ 0.2905	0.1	$ 0.03	-$ 28.2816	0.1	$ (2.83)	$ (2.86)	-9835.49%
Sub-Total A (excluding pass through)			$ 2.73			$ (0.07)	**$ (2.80)**	**-102.38%**
Line Losses on Cost of Power	$ 0.1101	1	$ 0.13	$ 0.1101	1	$ 0.13	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.5902	0	$ (0.06)	-$ 0.27635	0	$ (0.03)	$ 0.03	-53.18%
GA Rate Riders	$ 0.0013	33	$ 0.04	-$ 0.0005	33	$ (0.02)	$ (0.06)	-138.46%
Low Voltage Service Charge	$ 0.0580	0	$ 0.01	$ 0.0580	0	$ 0.01	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 2.85**			**$ 0.03**	**$ (2.83)**	**-99.04%**
RTSR - Network	$ 1.8997	0	$ 0.19	$ 1.9146	0	$ 0.19	$ 0.00	0.78%
RTSR - Connection and/or Line and Transformation Connection	$ 1.6301	0	$ 0.16	$ 1.6387	0	$ 0.16	$ 0.00	0.53%
Sub-Total C - Delivery (including Sub-Total B)			**$ 3.21**			**$ 0.38**	**$ (2.82)**	**-88.07%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	34	$ 0.12	$ 0.0036	34	$ 0.12	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	34	$ 0.01	$ 0.0003	34	$ 0.01	$ -	0.00%
Standard Supply Service Charge	$ 0.25		$ -	$ 0.25		$ -	$ -	
Debt Retirement Charge (DRC)	$ 0.0070	33	$ 0.23	$ 0.0070	33	$ 0.23	$ -	0.00%
							$ -	
Average IESO Wholesale Market Price	$ 0.1101	33	$ 3.63	$ 0.1101	33	$ 3.63	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 7.20**			**$ 4.38**	**$ (2.82)**	**-39.20%**
HST	13%		$ 0.94	13%		$ 0.57	$ (0.37)	-39.20%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 8.14**			**$ 4.95**	**$ (3.19)**	**-39.20%**

Customer Class:	**RESIDENTIAL SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Retailer)**	
Consumption	**750**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0360**	
Proposed/Approved Loss Factor	**1.0360**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 19.11	1	$ 19.11	$ 21.76	1	$ 21.76	$ 2.65	13.87%
Distribution Volumetric Rate	$ 0.0069	750	$ 5.18	$ 0.0036	750	$ 2.70	$ (2.48)	-47.83%
Fixed Rate Riders	$ 0.60	1	$ 0.60	$ 0.96	1	$ 0.96	$ 0.36	60.00%
Volumetric Rate Riders	$ -	750	$ -	-$ 0.0002	750	$ (0.15)	$ (0.15)	
Sub-Total A (excluding pass through)			$ 24.89			$ 25.27	**$ 0.39**	**1.55%**
Line Losses on Cost of Power	$ 0.1101	27	$ 2.97	$ 0.1101	27	$ 2.97	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0017	750	$ (1.28)	-$ 0.00075	750	$ (0.56)	$ 0.71	-55.88%
GA Rate Riders	$ 0.0013	750	$ 0.98	-$ 0.0005	750	$ (0.38)	$ (1.35)	-138.46%
Low Voltage Service Charge	$ 0.0002	750	$ 0.15	$ 0.0002	750	$ 0.15	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 28.50**			**$ 28.25**	**$ (0.25)**	**-0.89%**
RTSR - Network	$ 0.0076	777	$ 5.91	$ 0.0077	777	$ 5.98	$ 0.08	1.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0063	777	$ 4.90	$ 0.0063	777	$ 4.90	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 39.30**			**$ 39.12**	**$ (0.17)**	**-0.44%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	777	$ 2.80	$ 0.0036	777	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	777	$ 0.23	$ 0.0003	777	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25		$ -	$ 0.25		$ -	$ -	
Debt Retirement Charge (DRC)	$ 0.0070		$ -	$ 0.0070		$ -	$ -	
							$ -	
Non-RPP Retailer Avg. Price	$ 0.1101	750	$ 82.58	$ 0.1101	750	$ 82.58	$ -	0.00%
Total Bill on Non-RPP Avg. Price			**$ 124.90**			**$ 124.73**	**$ (0.17)**	**-0.14%**
HST	13%		$ 16.24	13%		$ 16.21	$ (0.02)	-0.14%
Provincial Rebate	-8%		$ (9.99)	-8%		$ (9.98)	$ 0.01	-0.14%
Total Bill on Non-RPP Avg. Price			**$ 131.15**			**$ 130.96**	**$ (0.18)**	**-0.14%**

Customer Class:	**GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Retailer)**	
Consumption	**2,000**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0360**	
Proposed/Approved Loss Factor	**1.0360**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 43.60	1	$ 43.60	$ 44.30	1	$ 44.30	$ 0.70	1.61%
Distribution Volumetric Rate	$ 0.0127	2000	$ 25.40	$ 0.0129	2000	$ 25.80	$ 0.40	1.57%
Fixed Rate Riders	$ 1.10	1	$ 1.10	$ 1.75	1	$ 1.75	$ 0.65	59.09%
Volumetric Rate Riders	$ 0.0003	2000	$ 0.60	$ 0.0011	2000	$ 2.20	$ 1.60	266.67%
Sub-Total A (excluding pass through)			$ 70.70			$ 74.05	**$ 3.35**	**4.74%**
Line Losses on Cost of Power	$ 0.1101	72	$ 7.93	$ 0.1101	72	$ 7.93	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0017	2,000	$ (3.40)	-$ 0.00075	2,000	$ (1.50)	$ 1.90	-55.88%
GA Rate Riders	$ 0.0013	2,000	$ 2.60	-$ 0.0005	2,000	$ (1.00)	$ (3.60)	-138.46%
Low Voltage Service Charge	$ 0.0002	2,000	$ 0.40	$ 0.0002	2,000	$ 0.40	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 79.02**			**$ 80.67**	**$ 1.65**	**2.09%**
RTSR - Network	$ 0.0071	2,072	$ 14.71	$ 0.0072	2,072	$ 14.92	$ 0.21	1.41%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0057	2,072	$ 11.81	$ 0.0057	2,072	$ 11.81	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 105.54**			**$ 107.40**	**$ 1.86**	**1.76%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,072	$ 7.46	$ 0.0036	2,072	$ 7.46	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,072	$ 0.62	$ 0.0003	2,072	$ 0.62	$ -	0.00%
Standard Supply Service Charge	$ 0.25		$ -	$ 0.25		$ -	$ -	
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ 0.0070	2,000	$ 14.00	$ -	0.00%
							$ -	
Non-RPP Retailer Avg. Price	$ 0.1101	2,000	$ 220.20	$ 0.1101	2,000	$ 220.20	$ -	0.00%
Total Bill on Non-RPP Avg. Price			**$ 347.82**			**$ 349.68**	**$ 1.86**	**0.53%**
HST	13%		$ 45.22	13%		$ 45.46	$ 0.24	0.53%
8% Provincial Rebate	-8%		$ (27.83)	-8%		$ (27.97)	$ (0.15)	0.53%
Total Bill on Non-RPP Avg. Price			**$ 365.21**			**$ 367.16**	**$ 1.95**	**0.53%**

Customer Class:	**UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**
RPP / Non-RPP:	**Non-RPP (Retailer)**
Consumption	**300** kWh
Demand	**-** kW
Current Loss Factor	**1.0360**
Proposed/Approved Loss Factor	**1.0360**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 9.00	1	$ 9.00	$ 9.14	1	$ 9.14	$ 0.14	1.56%
Distribution Volumetric Rate	$ 0.0164	300	$ 4.92	$ 0.0167	300	$ 5.01	$ 0.09	1.83%
Fixed Rate Riders	$ 0.23	1	$ 0.23	$ 0.36	1	$ 0.36	$ 0.13	56.52%
Volumetric Rate Riders	$ 0.0004	300	$ 0.12	$ 0.0006	300	$ 0.18	$ 0.06	50.00%
Sub-Total A (excluding pass through)			$ 14.27			$ 14.69	**$ 0.42**	**2.94%**
Line Losses on Cost of Power	$ 0.1101	11	$ 1.19	$ 0.1101	11	$ 1.19	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0017	300	$ (0.51)	-$ 0.00075	300	$ (0.23)	$ 0.29	-55.88%
GA Rate Riders	$ 0.0013	300	$ 0.39	-$ 0.0005	300	$ (0.15)	$ (0.54)	-138.46%
Low Voltage Service Charge	$ 0.0002	300	$ 0.06	$ 0.0002	300	$ 0.06	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.79		$ -	$ 0.79		$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 15.40**			**$ 15.56**	**$ 0.16**	**1.07%**
RTSR - Network	$ 0.0071	311	$ 2.21	$ 0.0072	311	$ 2.24	$ 0.03	1.41%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0057	311	$ 1.77	$ 0.0057	311	$ 1.77	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 19.38**			**$ 19.57**	**$ 0.20**	**1.01%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	311	$ 1.12	$ 0.0036	311	$ 1.12	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	311	$ 0.09	$ 0.0003	311	$ 0.09	$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)	$ 0.0070	300	$ 2.10	$ 0.0070	300	$ 2.10	$ -	0.00%
							$ -	
Non-RPP Retailer Avg. Price	$ 0.1101	300	$ 33.03	$ 0.1101	300	$ 33.03	$ -	0.00%
Total Bill on Non-RPP Avg. Price			**$ 55.72**			**$ 55.92**	**$ 0.20**	**0.35%**
HST	13%		$ 7.24	13%		$ 7.27	$ 0.03	0.35%
8% Provincial Rebate			$ -	0%		$ -	$ -	
Total Bill on Non-RPP Avg. Price			**$ 62.96**			**$ 63.18**	**$ 0.22**	**0.35%**

Customer Class:	**LARGE USE SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	**Class B**
Consumption	**3,000,000**	**kWh**
Demand	**5,000**	**kW**
Current Loss Factor	**1.0145**	
Proposed/Approved Loss Factor	**1.0145**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 13,787.64	1	$ 13,787.64	$ 14,008.24	1	$ 14,008.24	$ 220.60	1.60%
Distribution Volumetric Rate	$ 2.9516	5000	$ 14,758.00	$ 2.9988	5000	$ 14,994.00	$ 236.00	1.60%
Fixed Rate Riders	$ 346.90	1	$ 346.90	$ 553.47	1	$ 553.47	$ 206.57	59.55%
Volumetric Rate Riders	$ 0.0743	5000	$ 371.50	$ 0.2060	5000	$ 1,030.00	$ 658.50	177.25%
Sub-Total A (excluding pass through)			$ 29,264.04			$ 30,585.71	**$ 1,321.67**	**4.52%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	-$ 0.9165	5,000	$ (4,582.50)	-$ 0.40290	5,000	$ (2,014.50)	$ 2,568.00	-56.04%
GA Rate Riders	$ 0.0013	3,000,000	$ 3,900.00	$ -	3,000,000	$ -	$ (3,900.00)	-100.00%
Low Voltage Service Charge	$ 0.0838	5,000	$ 419.00	$ 0.0838	5,000	$ 419.00	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders		1	$ -		1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 29,000.54**			**$ 28,990.21**	**$ (10.33)**	**-0.04%**
RTSR - Network	$ 2.8320	5,000	$ 14,160.00	$ 2.8543	5,000	$ 14,271.50	$ 111.50	0.79%
RTSR - Connection and/or Line and Transformation Connection	$ 2.3560	5,000	$ 11,780.00	$ 2.3685	5,000	$ 11,842.50	$ 62.50	0.53%
Sub-Total C - Delivery (including Sub-Total B)			**$ 54,940.54**			**$ 55,104.21**	**$ 163.67**	**0.30%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	3,043,500	$ 10,956.60	$ 0.0036	3,043,500	$ 10,956.60	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	3,043,500	$ 913.05	$ 0.0003	3,043,500	$ 913.05	$ -	0.00%
Standard Supply Service Charge		1	$ -		1	$ -	$ -	
Debt Retirement Charge (DRC)	$ 0.0070	3,000,000	$ 21,000.00	$ 0.0070	3,000,000	$ 21,000.00	$ -	0.00%
							$ -	
Average IESO Wholesale Market Price	$ 0.1101	3,043,500	$ 335,089.35	$ 0.1101	3,043,500	$ 335,089.35	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 422,899.54**			**$ 423,063.21**	**$ 163.67**	**0.04%**
HST	13%		$ 54,976.94	13%		$ 54,998.22	$ 21.28	0.04%
8% Provincial Rebate			$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 477,876.48**			**$ 478,061.43**	**$ 184.95**	**0.04%**

Alectra - Enersource
Rates

MONTHLY RATES AND CHARGES - DELIVERY COMPONENT

2		3	4	5	6	7
Description	**Effective until**	**Type**	**Customers**	**Billing Determinant**	**2017**	**2018**
RESIDENTIAL						
Service Charge		Rate		$	19.11	21.76
Distribution Volumetric Rate		Rate		$/kWh	0.0069	0.0036
Low Voltage Service Rate		Rate		$/kWh	0.0002	0.0002
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018		Rate Rider		$	0.79	0.79
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$	0.60	0.60
Rate Rider for Disposition of GA (2017) - effective until December 31, 2017 - Applicable only for Non-RPP Customers	December 31, 2017	Rate Rider	non-RPP	$/kWh	0.0013	
Rate Rider for Disposition of DVA (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider		$/kWh	(0.0020)	
Rate Rider for Disposition of WMS Sub-account CBR Class B (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider	Class B	$/kWh	0.0003	
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	December 31, 2018	Rate Rider	non-RPP	$/kWh		(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kWh		(0.0007)
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider	Class B	$/kWh		(0.00005)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	December 31, 2018	Rate Rider		$/kWh		(0.0002)
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$		0.36
Retail Transmission Rate – Network Service Rate		Rate		$/kWh	0.0076	0.0077
Retail Transmission Rate – Line and Transformation Connection Service Rate		Rate		$/kWh	0.0063	0.0063
GENERAL SERVICE LESS THAN 50 KW						
Service Charge		Rate		$	43.60	44.30
Distribution Volumetric Rate		Rate		$/kWh	0.0127	0.0129
Low Voltage Service Rate		Rate		$/kWh	0.0002	0.0002
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018		Rate Rider		$	0.79	0.79
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$	1.10	1.10
Rate Rider for Disposition of GA (2017) - effective until December 31, 2017 - Applicable only for Non-RPP Customers	December 31, 2017	Rate Rider		$/kWh	0.0013	
Rate Rider for Disposition of DVA (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider		$/kWh	(0.0020)	
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$/kWh	0.0003	0.0003
Rate Rider for Disposition of WMS Sub-account CBR Class B (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider		$/kWh	0.0003	
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	December 31, 2018	Rate Rider		$/kWh		(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kWh		(0.0007)
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kWh		(0.00005)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	December 31, 2018	Rate Rider		$/kWh		0.0006
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$		0.65
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$/kWh		0.0002
Retail Transmission Rate - Network Service Rate		Rate		$/kWh	0.0071	0.0072
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kWh	0.0057	0.0057
GENERAL SERVICE 50 - 499 KW						
Service Charge		Rate		$	76.79	78.02
Distribution Volumetric Rate		Rate		$/kW	4.6213	4.6952
Low Voltage Service Rate		Rate		$/kW	0.0802	0.0802
Transformer Discount		Rate		$/kW	(0.4000)	(0.4000)
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$	1.93	1.93
Rate Rider for Disposition of GA (2017) - effective until December 31, 2017 - Applicable only for Non-RPP Customers	December 31, 2017	Rate Rider		$/kWh	0.0013	
Rate Rider for Disposition of DVA (2017) - effective until December 31, 2017 - Applicable for Non-WMP	December 31, 2017	Rate Rider		$/kW	(0.7227)	
Rate Rider for Disposition of DVA (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider		$/kW	0.0291	
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$/kW	0.1163	0.1163
Rate Rider for Disposition of WMS Sub-account CBR Class B (2017) - effective until December 31, 2017 - Applicable for Non-	December 31, 2017	Rate Rider		$/kW	0.0994	
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	December 31, 2018	Rate Rider		$/kWh		(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018 - Applicable for Non-WMP	December 31, 2018	Rate Rider		$/kW		(0.3516)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kW		0.0999
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018 - Applicable for Non-	December 31, 2018	Rate Rider		$/kW		(0.01596)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	December 31, 2018	Rate Rider		$/kW		0.4557
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$		1.15
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$/kW		0.0692
Retail Transmission Rate - Network Service Rate		Rate		$/kW	2.7431	2.7647
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kW	2.2543	2.2662
GENERAL SERVICE 500 - 4999 KW						
Service Charge		Rate		$	1,748.68	1,776.66
Distribution Volumetric Rate		Rate		$/kW	2.3780	2.4160
Low Voltage Service Rate		Rate		$/kW	0.0784	0.0784
Transformer Discount		Rate		$/kW	(0.4000)	(0.4000)
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$	44.00	44.00
Rate Rider for Disposition of GA (2017) - effective until December 31, 2017 - Applicable only for Non-RPP Customers	December 31, 2017	Rate Rider		$/kWh	0.0013	
Rate Rider for Disposition of DVA (2017) - effective until December 31, 2017 - Applicable for Non-WMP	December 31, 2017	Rate Rider		$/kW	(0.9028)	
Rate Rider for Disposition of DVA (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider		$/kW	0.0365	
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$/kW	0.0598	0.0598
Rate Rider for Disposition of WMS Sub-account CBR Class B (2017) - effective until December 31, 2017 - Applicable for Non-	December 31, 2017	Rate Rider		$/kW	0.1226	
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	December 31, 2018	Rate Rider		$/kWh		(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018 - Applicable for Non-WMP	December 31, 2018	Rate Rider		$/kW		(0.4437)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kW		0.1265
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018 - Applicable for Non-	December 31, 2018	Rate Rider		$/kW		(0.01987)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	December 31, 2018	Rate Rider		$/kW		0.1401
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$		26.20
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider		$/kW		0.0356
Retail Transmission Rate - Network Service Rate		Rate		$/kW	2.6539	2.6748
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kW	2.2059	2.2176

LARGE USE					
Service Charge		Rate	$	13,787.64	14,008.24
Distribution Volumetric Rate		Rate	$/kW	2.9516	2.9988
Low Voltage Service Rate		Rate	$/kW	0.0838	0.0838
Transformer Discount		Rate	$/kW	(0.4000)	(0.4000)
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$	346.90	346.90
Rate Rider for Disposition of GA (2017) - effective until December 31, 2017 - Applicable only for Non-RPP Customers	December 31, 2017	Rate Rider	$/kWh	0.0013	
Rate Rider for Disposition of DVA (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider	$/kW	(1.0616)	
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$/kW	0.0743	0.0743
Rate Rider for Disposition of WMS Sub-account CBR Class B (2017) - effective until December 31, 2017 - Applicable for Non-	December 31, 2017	Rate Rider	$/kW	0.1451	
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	December 31, 2018	Rate Rider	$/kWh		0.0000
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider	$/kW		(0.4029)
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018 - Applicable for Non-	December 31, 2018	Rate Rider	$/kW		0.00000
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	December 31, 2018	Rate Rider	$/kW		0.0875
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$		206.57
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$/kW		0.0442
Retail Transmission Rate - Network Service Rate		Rate	$/kW	2.8320	2.8543
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate	$/kW	2.3560	2.3685
UNMETERED SCATTERED LOAD					
Service Charge		Rate	$	9.00	9.14
Distribution Volumetric Rate		Rate	$/kWh	0.0164	0.0167
Low Voltage Service Rate		Rate	$/kWh	0.0002	0.0002
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$	0.23	0.23
Rate Rider for Disposition of GA (2017) - effective until December 31, 2017 - Applicable only for Non-RPP Customers	December 31, 2017	Rate Rider	$/kWh	0.0013	
Rate Rider for Disposition of DVA (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider	$/kWh	(0.0020)	
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$/kWh	0.0004	0.0004
Rate Rider for Disposition of WMS Sub-account CBR Class B (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider	$/kWh	0.0003	
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	December 31, 2018	Rate Rider	$/kWh		(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider	$/kWh		(0.0007)
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider	$/kWh		(0.00005)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	December 31, 2018	Rate Rider	$/kWh		0.0000
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$		0.13
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$/kWh		0.0002
Retail Transmission Rate - Network Service Rate		Rate	$/kWh	0.0071	0.0072
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate	$/kWh	0.0057	0.0057
STREET LIGHTING					
Service Charge		Rate	$	1.51	1.53
Distribution Volumetric Rate		Rate	$/kW	11.5465	11.7312
Low Voltage Service Rate		Rate	$/kW	0.0580	0.0580
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$	0.04	0.04
Rate Rider for Disposition of GA (2017) - effective until December 31, 2017 - Applicable only for Non-RPP Customers	December 31, 2017	Rate Rider	$/kWh	0.0013	
Rate Rider for Disposition of DVA (2017) - effective until December 31, 2017	December 31, 2017	Rate Rider	$/kW	(0.6889)	
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$/kW	0.2905	0.2905
Rate Rider for Disposition of WMS Sub-account CBR Class B (2017) - effective until December 31, 2017 - Applicable for Non-	December 31, 2017	Rate Rider	$/kW	0.0987	
Rate Rider for Disposition of GA (2018) - effective until December 31, 2018 - Applicable only for Non-RPP Customers	December 31, 2018	Rate Rider	$/kWh		(0.0005)
Rate Rider for Disposition of DVA (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider	$/kW		(0.2599)
Rate Rider for Disposition of WMS Sub-account CBR Class B (2018) - effective until December 31, 2018 - Applicable for Non-	December 31, 2018	Rate Rider	$/kW		(0.01645)
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2018)	December 31, 2018	Rate Rider	$/kW		(28.7451)
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$		0.02
Rate Rider for Recovery of ICM - in effect until date of next cost of service		Rate Rider	$/kW		0.1730
Retail Transmission Rate - Network Service Rate		Rate	$/kW	1.8997	1.9146
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate	$/kW	1.6301	1.6387
MICROFIT					
Service Charge		Rate	$	5.40	5.40

Distribution Bill Impacts					
Customer Class	Billing Units	Average Monthly Volume	2018 vs. 2017		
			$		%
Residential	kWh	750	$	0.39	1.55%
GS<50	kWh	2,000	$	3.35	4.74%
GS 50-499 kW	kW	230	$	140.10	11.99%
GS 500-4,999 kW	kW	2,250	$	535.00	7.35%
Large User	kW	5,000	$	1,321.67	4.52%
Street Lighting	kW	-	$	(2.80)	(102.38)%

Table excludes the impact of HST (13%) & Provinicial Rebate (8%)

Distribution Bill and All Rate Rider Bill Impacts					
Customer Class	Billing Units	Average Monthly Volume	2018 vs. 2017		
			$		%
Residential	kWh	750	$	1.10	4.10%
GS<50	kWh	2,000	$	5.25	7.06%
GS 50-499 kW	kW	230	$	35.21	2.98%
GS 500-4,999 kW	kW	2,250	$	729.92	11.58%
Large User	kW	5,000	$	4,615.17	18.93%
Stanby Power	kW	-	$	-	0.00%
Unmetered Scattered Load	kWh	0	$	0.70	4.79%
Street Lighting	kW	-	$	(2.83)	(99.04)%

Table excludes the impact of HST (13%) & Provinicial Rebate (8%)

Total Bill Impacts					
Customer Class	Billing Units	Average Monthly Volume	2018 vs. 2017		
			$		%
Residential	kWh	750	$	1.18	1.15%
GS<50	kWh	2,000	$	5.46	1.90%
GS 50-499 kW	kW	230	$	42.91	0.29%
GS 500-4,999 kW	kW	2,250	$	803.27	1.19%
Large User	kW	5,000	$	4,789.17	1.14%
Stanby Power	kW	-	$	-	0.00%
Unmetered Scattered Load	kWh	0	$	0.74	1.57%
Street Lighting	kW	-	$	(2.82)	(39.20)%

Table excludes the impact of HST (13%) & Provinicial Rebate (8%)

Total Bill Impacts including HST					
Customer Class	Billing Units	Average Monthly Volume	2018 vs. 2017		
			$		%
Residential	kWh	750	$	1.23	1.15%
GS<50	kWh	2,000	$	5.73	1.90%
GS 50-499 kW	kW	230	$	48.49	0.29%
GS 500-4,999 kW	kW	2,250	$	907.70	1.19%
Large User	kW	5,000	$	5,411.76	1.14%
Stanby Power	kW	-	$	-	0.00%
Unmetered Scattered Load	kWh	0	$	0.77	1.57%
Street Lighting	kW	-	$	(3.19)	(39.20)%

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The bill comparisons below must be provided for typical customers and consumption levels. Bill impacts must be provided for residential customers consuming 750 kWh per month and general service customers consuming 2,000 kWh per month and having a monthly demand of less than 50 kW. Include bill comparisons for Non-RPP (retailer) as well. **To assess the combined effects of the shift to fixed rates and other bill impacts associated with changes in the cost of distribution service, applicants are to include a total bill impact for a residential customer at the distributor's 10th consumption percentile (In other words, 10% of a distributor's residential customers consume at or less than this level of consumption on a monthly basis). Refer to page 9 of the Filing Requirements For Electricity Distribution Rate Applications issued July 14, 2016.**

For certain classes where one or more customers have unique consumption and demand patterns and which may be significantly impacted by the proposed rate changes, the distributor must show a typical comparison, and provide an explanation.

Note:
1. For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of February 2017 of $0.1058/kWh (IESO's Monthly Market Report for February 2017, page 22) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact table for the specific class.
2. Please enter the applicable billing determinant (e.g. number of connections or devices) to be applied to the monthly service charge for unmetered rate classes in column N. If the monthly service charge is applied on a per customer basis, enter the number "1". Distributors should provide the number of connections or devices reflective of a typical customer in each class.

Table 1

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	**Units**	**RPP? Non-RPP Retailer? Non-RPP Other?**	**Current Loss Factor**	**Proposed Loss Factor**	**Consumption (kWh)**	**Demand kW (if applicable)**	**RTSR**	**Billing Determinant Applied to Fixed Charge for Unmetered Classes (e.g. # of devices/connecti ons)**
RESIDENTIAL SERVICE CLASSIFICATION	**kWh**	RPP	1.0360	1.0360	750		**N/A**	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	**kWh**	RPP	1.0360	1.0360	2,000		**N/A**	
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	100,000	230	**DEMAND**	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	400,000	2,250	**DEMAND**	
LARGE USE SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0145	1.0145	3,000,000	5,000	**DEMAND**	
STANDBY POWER SERVICE CLASSIFICATION	**kW**		1.0360	1.0360	-	-	**DEMAND**	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	**kWh**	RPP	1.0360	1.0360	300		**N/A**	
STREET LIGHTING SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	33	0	**DEMAND**	
RESIDENTIAL SERVICE CLASSIFICATION	**kWh**	Non-RPP (Retailer)	1.0360	1.0360	750		**N/A**	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	**kWh**	Non-RPP (Retailer)	1.0360	1.0360	2,000		**N/A**	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	**kWh**	Non-RPP (Retailer)	1.0360	1.0360	300		**N/A**	
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	100,000	230	**DEMAND - INTERVAL**	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0360	1.0360	400,000	2,250	**DEMAND - INTERVAL**	
LARGE USE SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0145	1.0145	3,000,000	5,000	**DEMAND - INTERVAL**	
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								

Table 2

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	Units	Sub-Total						Total	
		A		B		C		A + B + C	
		$	%	$	%	$	%	$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 1.85	8.4%	$ 2.16	9.3%	$ 2.20	7.9%	$ 2.31	3.9%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - RPP	kWh	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
STANDBY POWER SERVICE CLASSIFICATION -	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
GENERAL SERVICE 50 to 499 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
	0								

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	10th percentile
Consumption	332	kWh
Demand	-	kW
Current Loss Factor	1.0360	
Proposed/Approved Loss Factor	1.0360	

	Current OEB-Approved			Proposed			Impact	
	Rate	Volume	Charge	Rate	Volume	Charge		
	($)		($)	($)		($)	$ Change	% Change
Monthly Service Charge	$ 19.11	1	$ 19.11	$ 21.76	1	$ 21.76	$ 2.65	13.87%
Distribution Volumetric Rate	$ 0.0069	332	$ 2.29	$ 0.00	332	$ 1.20	$ (1.10)	-47.83%
Fixed Rate Riders	$ 0.60	1	$ 0.60	$ 0.96	1	$ 0.96	$ 0.36	60.00%
Volumetric Rate Riders	$ -	332	$ -	$ (0.0002)	332	$ (0.07)	$ (0.07)	
Sub-Total A (excluding pass through)			$ 22.00			$ 23.85	**$ 1.85**	**8.40%**
Line Losses on Cost of Power	$ 0.0822	12	$ 0.98	$ 0.0822	12	$ 0.98	$ -	0.00%
Total Deferral/Variance Account Rate Riders	-$ 0.0017	332	$ (0.56)	-$ 0.0008	332	$ (0.25)	$ 0.32	-55.88%
GA Rate Riders								
Low Voltage Service Charge	$ 0.0002	332	$ 0.07	$ 0.0002	332	$ 0.07	$ -	0.00%
Smart Meter Entity Charge (if applicable)	$ 0.79	1	$ 0.79	$ 0.79	1	$ 0.79	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 23.27**			**$ 25.44**	**$ 2.16**	**9.30%**
RTSR - Network	$ 0.0076	332	$ 2.52	$ 0.0077	332	$ 2.56	$ 0.03	1.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0063	332	$ 2.09	$ 0.0063	332	$ 2.09	$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)			**$ 27.89**			**$ 30.09**	**$ 2.20**	**7.88%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	344	$ 1.24	$ 0.0036	344	$ 1.24	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	344	$ 0.10	$ 0.0003	344	$ 0.10	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
TOU - Off Peak	$ 0.0650	216	$ 14.03	$ 0.0650	216	$ 14.03	$ -	0.00%
TOU - Mid Peak	$ 0.0950	56	$ 5.36	$ 0.0950	56	$ 5.36	$ -	0.00%
TOU - On Peak	$ 0.1320	60	$ 7.89	$ 0.1320	60	$ 7.89	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 56.76**			**$ 58.95**	**$ 2.20**	**3.87%**
HST	13%		$ 7.38	13%		$ 7.66	$ 0.29	3.87%
8% Provincial Rebate	-8%		$ (4.54)	-8%		$ (4.72)	$ (0.18)	3.87%
Total Bill on TOU			**$ 59.60**			**$ 61.90**	**$ 2.31**	**3.87%**

JT.Staff-3

Ref:HRZ-Staff-Supp-2 part b)

"At year-end Alectra records the actual Class B GA costs based on the December IESO invoice."
When Alectra records the costs, in total the cost is actual, but the proportion between RPP and non-RPP would be based on estimates, as actual proportions would not be known until December consumption billings are completed. Is actual GA cost related to RPP (in 1588) and non-RPP (in 1589) trued up to actual proportions? If so, where is the impact shown on the DVA Continuity Schedule?

Response:

Alectra agrees that actual proportions between RPP and non-RPP at year end would not be known until billings are completed and as such, are based on estimates. For the August to December 2016 period, Alectra trued-up the actual GA costs related to RPP in 1588 and non RPP in 1589 to actual proportions in the subsequent year. As a result, a reclass between 1588 and 1589 on the DVA Continuity Schedule in the amount of $1,808,419 is required to appropriately reflect the actual proportions. Table 1 below provides details of this calculation.

Table 1 – GA True-up Calculation

Period in which True-up was Claimed	Period the True-up is related to	Total RPP Consumption (kWh) (A)	CLASS B ACTUAL GA RATE (B)	RPP kWHs Billed @ ACTUAL GA RATE C=(A x B)	Estimated Settlement on Form 1598 (F)	True-up (E-F)
January 2017	August 2016	248,953,041	$ 0.07105	$ 17,689,006	$ 18,488,761	$ (799,755)
February 2017	September 2016	200,417,258	$ 0.09531	$ 19,101,290	$ 18,649,280	$ 452,010
March 2017	October 2016	173,782,911	$ 0.11225	$ 19,506,987	$ 17,553,154	$ 1,953,833
April 2017	November 2016	169,826,480	$ 0.11110	$ 18,867,560	$ 18,043,403	$ 824,157
May 2017	December 2016	193,310,127	$ 0.08708	$ 16,832,782	$ 17,454,608	$ (621,826)
TOTAL				**$ 91,997,625**	**$ 90,189,206**	**$ 1,808,419**

The DVA Continuity Schedule has been updated to reflect the reclass of $1,808,419 between 1588 and 1589. Table 2 below shows the revised GA balance proposed for disposition and the allocation between current and former Class A and B customers. Tables 3, 4 and 5 show the revised GA, DVA and non-WMP DVA rate riders. The revised IRM rate generator model is submitted in JTStaff 3_Attach 1_IRM Model ERZ.

Table 2 – Revised GA Balance for Disposal to Former and Current Class A and B Customers

	GA Balance for Disposal HRZ-Staff - 18_Attach 1	GA Balance for Disposal HRZ-JT-Staff-3
Total GA Balance	$ (3,038,034)	$ (4,866,346)
New Class B Customer(s)' Former Class A Portion of GA Balance attributable to Class B	$ (22,785)	$ (36,497)
New Class A Customer(s)' Former Class B Portion of GA Balance	$ (54,671)	$ (87,572)
GA Balance to be disposed to Current Class B Customers	$ (2,960,578)	$ (4,742,277)

Table 3 – Revised GA Rate Riders

Customer Class	Global Adjustment Rate Rider Non-RPP Class B Jan 1 - Dec 31, 2018 HRZ-Staff - 18_Attach 1		Global Adjustment Rate Rider Non-RPP Class B Jan 1 - Dec 31, 2018 HRZ-JT-Staff-3	
	$/kWh	$/kW	$/kWh	$/kW
RESIDENTIAL	(0.0018)		(0.0029)	
GENERAL SERVICE < 50 KW	(0.0018)		(0.0029)	
GENERAL SERVICE 50-4999 KW	(0.0018)		(0.0029)	
LARGE USE (1)	(0.0018)		(0.0029)	
LARGE USE (2)	0.0000		0.0000	
UNMETERED & SCATTERED LOADS	(0.0018)		(0.0029)	
SENTINAL LIGHTING	(0.0018)		(0.0029)	
STREET LIGHTING	(0.0018)		(0.0029)	

Table 4 – Revised DVA Rate Riders

Customer Class	Deferral/Variance Account Rate Rider Jan 1 - Dec 31, 2018 HRZ-Staff - 18_Attach 1		Deferral/Variance Account Rate Rider Jan 1 - Dec 31, 2018 HRZ-JT-Staff-3	
	$/kWh	$/kW	$/kWh	$/kW
RESIDENTIAL	(0.0009)		(0.0006)	
GENERAL SERVICE < 50 KW	(0.0009)		(0.0005)	
GENERAL SERVICE 50-4999 KW		0.1075		0.1075
LARGE USE (1)		0.1412		0.1412
LARGE USE (2)		0.1628		0.1628
UNMETERED & SCATTERED LOADS	(0.0009)		(0.0005)	
SENTINAL LIGHTING		0.3376		(0.1954)
STREET LIGHTING		0.3354		(0.1941)

Table 5 – Revised Non-WMP DVA Rate Riders

Customer Class	Deferral/Variance Account Rate Rider for Non-WMP Jan 1 - Dec 31, 2018 HRZ-Staff - 18_Attach 1		Deferral/Variance Account Rate Rider for Non-WMP Jan 1 - Dec 31, 2018 HRZ-JT-Staff-3	
	$/kWh	$/kW	$/kWh	$/kW
RESIDENTIAL				
GENERAL SERVICE < 50 KW				
GENERAL SERVICE 50-4999 KW		(0.4519)		(0.3067)
LARGE USE (1)		(0.6689)		(0.4540)
LARGE USE (2)		(0.5507)		(0.3738)
UNMETERED & SCATTERED LOADS				
SENTINAL LIGHTING				
STREET LIGHTING				

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Version 1.0

Utility Name	Alectra - PowerStream
Assigned EB Number	
Name of Contact and Title	
Phone Number	
Email Address	
We are applying for rates effective	Monday, January 01, 2018
Rate-Setting Method	**Price Cap IR**
Please indicate in which Rate Year the Group 1 accounts were last cleared[1]	**2016**
Please indicate the last Cost of Service Re-Basing Year	**2017**

Notes

Pale gray cells represent input cells.

Pale blue cells represent drop-down lists.

White cells contain fixed values, automatically generated values or formulae.

INCENTIVE REGULATION MODEL FO

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

Account Descriptions	Account Number
Group 1 Accounts	
LV Variance Account	1550
Smart Metering Entity Charge Variance Account	1551
RSVA - Wholesale Market Service Charge	1580
Variance WMS – Sub-account CBR Class A	1580
Variance WMS – Sub-account CBR Class B	1580
RSVA - Retail Transmission Network Charge	1584
RSVA - Retail Transmission Connection Charge	1586
RSVA - Power	1588
RSVA - Global Adjustment	1589
Disposition and Recovery/Refund of Regulatory Balances (2009)"	1595
Disposition and Recovery/Refund of Regulatory Balances (2010)"	1595
Disposition and Recovery/Refund of Regulatory Balances (2011)"	1595
Disposition and Recovery/Refund of Regulatory Balances (2012)"	1595
Disposition and Recovery/Refund of Regulatory Balances (2013)"	1595
Disposition and Recovery/Refund of Regulatory Balances (2014)"	1595
Disposition and Recovery/Refund of Regulatory Balances (2015)"	1595
Disposition and Recovery/Refund of Regulatory Balances (2016)"	
Not to be disposed of unless rate rider has expired and balance has been audited	1595
RSVA - Global Adjustment	**1589**
Total Group 1 Balance excluding Account 1589 - Global Adjustment	
Total Group 1 Balance	
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**
Total including Account 1568	

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

OR 2018 FILERS

2011										2012							
Opening Principal Amounts as of Jan 1, 2011	Transactions[2] Debit / (Credit) during 2011	OEB-Approved Disposition during 2011	Principal Adjustments[1] during 2011	Closing Principal Balance as of Dec 31, 2011	Opening Interest Amounts as of Jan 1, 2011	Interest Jan 1 to Dec 31, 2011	OEB-Approved Disposition during 2011	Interest Adjustments[1] during 2011	Closing Interest Amounts as of Dec 31, 2011	Opening Principal Amounts as of Jan 1, 2012	Transactions[2] Debit / (Credit) during 2012	OEB-Approved Disposition during 2012	Principal Adjustments[1] during 2012	Closing Principal Balance as of Dec 31, 2012	Opening Interest Amounts as of Jan 1, 2012	Interest Jan 1 to Dec 31, 2012	OEB-Approved Disposition during 2012
0	115,768			115,768	0	1,571			1,571	115,768	$16,683			132,451	1,571	$1,801	
0	0			0	0	0			0	0				0	0		
0	(5,518,758)			(5,518,758)	0	(58,244)			(58,244)	(5,518,758)	-$6,544,300			(12,063,058)	(58,244)	-$125,746	
0	0			0	0	0			0	0				0	0		
0	0			0	0	0			0	0				0	0		
0	631,983			631,983	0	26,118			26,118	631,983	$177,338			809,320	26,118	$12,236	
0	(170,343)			(170,343)	0	700			700	(170,343)	-$76,745			(247,088)	700	-$2,601	
0	(1,031,402)			(1,031,402)	0	(19,575)			(19,575)	(1,031,402)	-$541,508			(1,572,910)	(19,575)	-$3,472	
0	1,058,063			1,058,063	0	69,598			69,598	1,058,063	-$3,235,246			(2,177,183)	69,598	$495	
0	(2,913,896)			(2,913,896)	0	(2,492,082)			(2,492,082)	(2,913,896)	$2,840,650			(73,246)	(2,492,082)	-$9,603	
0	1,927,442			1,927,442	0	(21,556)			(21,556)	1,927,442	-$2,230,637			(303,195)	(21,556)	$13,368	
0	(8,695,918)			(8,695,918)	0	(154,327)			(154,327)	(8,695,918)	$9,300,673			604,756	(154,327)	-$65,930	
0	0			0	0	0			0	0		-$2,039,038	-$493,722	1,545,316	0		-$1,284,828
0	0			0	0	0			0	0				0	0		
0	0			0	0	0			0	0				0	0		
0	0			0	0	0			0	0				0	0		
0	0			0	0	0			0	0				0	0		
0	1,058,063	0	0	1,058,063	0	69,598	0	0	69,598	1,058,063	(3,235,246)	0	0	(2,177,183)	69,598	495	0
0	(15,655,124)	0	0	(15,655,124)	0	(2,717,393)	0	0	(2,717,393)	(15,655,124)	2,942,154	(2,039,038)	(493,722)	(11,167,654)	(2,717,393)	(179,947)	(1,284,828)
0	(14,597,061)	0	0	(14,597,061)	0	(2,647,795)	0	0	(2,647,795)	(14,597,061)	(293,092)	(2,039,038)	(493,722)	(13,344,837)	(2,647,795)	(179,452)	(1,284,828)
				0					0	0	(237,216)			(237,216)	0	(278)	
0	(14,597,061)	0	0	(14,597,061)	0	(2,647,795)	0	0	(2,647,795)	(14,597,061)	(530,308)	(2,039,038)	(493,722)	(13,582,053)	(2,647,795)	(179,730)	(1,284,828)

Interest Adjustments[1] during 2012	Closing Interest Amounts as of Dec 31, 2012
	3,372
	0
	(183,990)
	0
	0
	38,354
	(1,901)
	(23,046)
	70,093
	(2,501,684)
	(8,187)
	(220,257)
$2,207	1,287,035
	0
	0
	0
	0
0	70,093
2,207	(1,610,306)
2,207	(1,540,213)
	(278)
2,207	(1,540,491)

2013										2014							
Opening Principal Amounts as of Jan 1, 2013	Transactions[2] Debit / (Credit) during 2013	OEB-Approved Disposition during 2013	Principal Adjustments[1] during 2013	Closing Principal Balance as of Dec 31, 2013	Opening Interest Amounts as of Jan 1, 2013	Interest Jan 1 to Dec 31, 2013	OEB-Approved Disposition during 2013	Interest Adjustments[1] during 2013	Closing Interest Amounts as of Dec 31, 2013	Opening Principal Amounts as of Jan 1, 2014	Transactions[2] Debit / (Credit) during 2014	OEB-Approved Disposition during 2014	Principal Adjustments[1] during 2014	Closing Principal Balance as of Dec 31, 2014	Opening Interest Amounts as of Jan 1, 2014	Interest Jan 1 to Dec 31, 2014	OEB-Approved Disposition during 2014
132,451	$288,057	$117,339		303,169	3,372	$2,248	$1,702		3,918	303,169	$287,710	$15,111		575,767	3,918	$6,270	$1,892
0	-$17,911			(17,911)	0	-$71			(71)	(17,911)	-$18,781	$0		(36,692)	(71)	-$365	$0
(12,063,058)	-$3,416,930	-$5,577,002	$16,968	(9,886,018)	(183,990)	-$134,977	-$81,126		(237,841)	(9,886,018)	-$750,596	-$6,486,056	-$428,586	(4,579,145)	(237,841)	-$28,009	-$198,209
0				0	0				0	0				0	0		
0				0	0				0	0				0	0		
809,320	$3,378,169	$658,101		3,529,388	38,354	$24,798	$9,290		53,862	3,529,388	$3,491,680	$151,219		6,869,850	53,862	$73,256	$31,287
(247,088)	$1,314,694	-$169,643		1,237,249	(1,901)	$5,832	-$2,504		6,435	1,237,249	$2,601,536	-$77,445		3,916,230	6,435	$35,834	-$536
(1,572,910)	$924,467	-$1,050,976	-$4,668,527	(4,265,994)	(23,046)	$11,468	-$15,162	-$60,232	(56,649)	(4,265,994)	-$552,173	-$521,933	-$2,337,699	(6,633,933)	(56,649)	-$82,951	-$15,557
(2,177,183)	-$1,669,046	$1,127,661	$4,668,527	(305,363)	70,093	-$16,959	$15,553	$60,232	97,813	(305,363)	$1,473,744	-$3,304,844	$5,344,769	9,817,994	97,813	$92,779	$5,959
(73,246)				(73,246)	(2,501,684)	-$1,077			(2,502,761)	(73,246)				(73,246)	(2,502,761)	-$1,077	
(303,195)				(303,195)	(8,187)	-$4,457			(12,644)	(303,195)				(303,195)	(12,644)	-$4,457	
604,756				604,756	(220,257)	$8,890			(211,367)	604,756				604,756	(211,367)	$8,890	
1,545,316	-$2,940,696			(1,395,380)	1,287,035	$1,789		$1,306	1,290,129	(1,395,380)				(1,395,380)	1,290,129	-$20,512	
0	$5,370,489	$4,894,519		475,969	0	-$30,180	$72,247		(102,427)	475,969				475,969	(102,427)	$6,997	
0				0	0				0	0	$10,296,124	$10,223,947		72,177	0	$174,451	$175,164
0				0	0				0	0				0	0		
0				0	0				0	0				0	0		
(2,177,183)	(1,669,046)	1,127,661	4,668,527	(305,363)	70,093	(16,959)	15,553	60,232	97,813	(305,363)	1,473,744	(3,304,844)	5,344,769	9,817,994	97,813	92,779	5,959
(11,167,654)	4,900,339	(1,127,661)	(4,651,559)	(9,791,213)	(1,610,306)	(115,738)	(15,553)	(58,926)	(1,769,417)	(9,791,213)	15,355,499	3,304,844	(2,766,285)	(506,843)	(1,769,417)	168,326	(5,959)
(13,344,837)	3,231,293	0	16,968	(10,096,576)	(1,540,213)	(132,696)	0	1,306	(1,671,603)	(10,096,576)	16,829,243	0	2,578,484	9,311,151	(1,671,603)	261,105	0
(237,216)				(237,216)	(278)	(3,487)			(3,765)	(237,216)	(59,871)			(297,087)	(3,765)	(3,487)	
(13,582,053)	3,231,293	0	16,968	(10,333,792)	(1,540,491)	(136,183)	0	1,306	(1,675,368)	(10,333,792)	16,769,372	0	2,578,484	9,014,064	(1,675,368)	257,618	0

		2015										2016						
Interest Adjustments[1] during 2014	Closing Interest Amounts as of Dec 31, 2014	Opening Principal Amounts as of Jan 1, 2015	Transactions[2] Debit / (Credit) during 2015	OEB-Approved Disposition during 2015	Principal Adjustments[1] during 2015	Closing Principal Balance as of Dec 31, 15	Opening Interest Amounts as of Jan 1, 15	Interest Jan 1 to Dec 31, 15	OEB-Approved Disposition during 2015	Interest Adjustments[1] during 2015	Closing Interest Amounts as of Dec 31, 15	Opening Principal Amounts as of Jan 1, 2016	Transactions[2] Debit / (Credit) during 2016	OEB-Approved Disposition during 2016	Principal Adjustments[1] during 2016	Closing Principal Balance as of Dec 31, 16	Opening Interest Amounts as of Jan 1, 16	Interest Jan 1 to Dec 31, 16
	8,295	575,767	$471,028	$288,058		758,738	8,295	$5,409	$6,482		7,222	758,738	552,752	287,710		1,023,780	7,222	8,153
	(436)	(36,692)	-$22,681	-$17,911		(41,462)	(436)	-$331	-$334		(432)	(41,462)	(23,673)	(18,781)		(46,354)	(432)	(366)
	(67,641)	(4,579,145)	-$10,407,994	-$3,399,963		(11,587,176)	(67,641)	-$49,705	-$184,956		67,611	(11,587,176)	(4,482,609)	(1,179,182)		(14,890,603)	67,611	(138,990)
	0	0	$124,744			124,744	0	$375			375	124,744	(124,744)			(0)	375	(375)
	0	0	$1,108,630			1,108,630	0	$3,563			3,563	1,108,630	(185,940)			922,690	3,563	11,337
	95,832	6,869,850	-$1,237,207	$3,378,169		2,254,473	95,832	$40,112	$74,457		61,487	2,254,473	(532,829)	3,491,680		(1,770,037)	61,487	(12,513)
	42,805	3,916,230	-$230,302	$1,314,694		2,371,234	42,805	$32,229	$25,159		49,875	2,371,234	941,983	2,601,536		711,681	49,875	4,911
	(124,043)	(6,633,933)	-$859,776	-$3,744,061		(3,749,649)	(124,043)	-$29,325	-$103,603		(49,766)	(3,749,649)	(148,173)	(2,889,873)	819,534	(188,415)	(49,766)	5,680
	184,633	9,817,994	$2,612,621	$2,999,481		9,431,134	184,633	$97,517	$87,366		194,785	9,431,134	(3,004,935)	6,818,513	(1,808,419)	(2,200,733)	194,785	28,693
	(2,503,838)	(73,246)		-$73,246		0	(2,503,838)		-$2,503,838		0	0				0	0	
	(17,101)	(303,195)		-$303,195		0	(17,101)		-$17,101		0	0				0	0	
	(202,477)	604,756		$604,756		0	(202,477)		-$202,477		0	0				0	0	
	1,269,617	(1,395,380)		-$1,395,380		0	1,269,617		$1,269,617		0	0				0	0	
	(95,431)	475,969		$475,969		(0)	(95,431)		-$95,431		(0)	(0)				(0)	(0)	
	(713)	72,177				72,177	(713)	$861			148	72,177		72,177		(0)	148	
	0	0	-$256,827	-$456,725		199,898	0	$1,587,899	$1,610,163	$4,710	(17,555)	199,898				199,898	(17,555)	2,199
	0	0				0	0				0	0	(8,988,872)	(9,183,780)		194,908	0	47,945
0	184,633	9,817,994	2,612,621	2,999,481	0	9,431,134	184,633	97,517	87,366	0	194,785	9,431,134	(3,004,935)	6,818,513	(1,808,419)	(2,200,733)	194,785	28,693
0	(1,595,131)	(506,843)	(11,310,386)	(3,328,835)	0	(8,488,394)	(1,595,131)	1,591,087	(121,862)	4,710	122,527	(8,488,394)	(12,992,104)	(6,818,513)	819,534	(13,842,451)	122,527	(72,019)
0	(1,410,498)	9,311,151	(8,697,765)	(329,354)	0	942,740	(1,410,498)	1,688,604	(34,496)	4,710	317,312	942,740	(15,997,038)	0	(988,885)	(16,043,183)	317,312	(43,326)
	(7,252)	(297,087)	85,881	(237,216)		26,010	(7,252)	(1,005)	(7,252)		(1,005)	26,010	303,456			329,466	(1,005)	564
0	(1,417,750)	9,014,064	(8,611,884)	(566,570)	0	968,750	(1,417,750)	1,687,599	(41,748)	4,710	316,307	968,750	(15,693,582)	0	(988,885)	(15,713,717)	316,307	(42,762)

			2017				Projected Interest on Dec-31-16 Balances				2.1.7 RRR	
OEB-Approved Disposition during 2016	Interest Adjustments[1] during 2016	Closing Interest Amounts as of Dec 31, 16	Principal Disposition during 2017 - instructed by OEB	Interest Disposition during 2017 - instructed by OEB	Closing Principal Balances as of Dec 31, 2017 Adjusted for Dispositions during 2017	Closing Interest Balances as of Dec 31, 16 Adjusted for Disposition in 2017	Projected Interest from Jan 1, 2016 to December 31, 2016 on Dec 31 -16 balance adjusted for disposition during 2017 [3]	Projected Interest from January 1, 2018 to April 30, 2018 on Dec 31 -16 balance adjusted for disposition during 2017 [3]	Total Interest	Total Claim	As of Dec 31-16	Variance RRR vs. 2016 Balance *(Principal + Interest)*
5,244		10,131	471,028	7,159	552,752	2,971	6,080		9,052	561,804	1,033,911	0
(326)		(473)	(22,681)	(356)	(23,673)	(117)	(260)		(377)	(24,050)	(46,827)	0
104,324		(175,703)	(10,407,994)	(150,131)	(4,482,609)	(25,572)	(49,309)		(74,881)	(4,557,490)	(15,066,306)	0
		(0)			(0)	(0)	(0)		(0)	(0)	0	0
		14,900	1,108,630	15,758	(185,940)	(858)	(2,045)		(2,903)	(188,843)	937,590	0
63,013		(14,039)	(1,237,207)	(15,135)	(532,829)	1,096	(5,861)		(4,765)	(537,595)	(1,784,076)	0
48,670		6,117	(230,302)	(1,328)	941,983	7,444	10,362		17,806	959,790	717,798	(0)
(54,903)		10,817	(859,776)	(4,321)	671,361	15,138	7,385		22,523	693,884	(997,132)	(819,534)
178,578		44,900	2,612,621	44,945	(4,813,354)	(45)	(52,947)		(52,992)	(4,866,346)	(347,414)	1,808,419
		0			0	0	0		0	0		(0)
		0			0	0	0		0	0		(0)
		0			0	0	0		0	0		0
		0			0	0	0		0	0		(0)
		(0)			(0)	(0)	(0)		(0)	(0)		0
148		0			(0)	0	(0)		0	0		(0)
		(15,356)	199,898	(15,356)	0	0	0		0	0	184,542	0
(343,678)		391,623			194,908	391,623	2,144		393,767	588,675	586,531	0
178,578	0	44,900	2,612,621	44,945	(4,813,354)	(45)	(52,947)	0	(52,992)	(4,866,346)	(347,414)	1,808,419
(177,508)	0	228,015	(10,978,404)	(163,710)	(2,864,046)	391,726	(31,505)	0	360,221	(2,503,825)	(14,433,969)	(819,534)
1,070	0	272,915	(8,365,783)	(118,765)	(7,677,400)	391,680	(84,451)	0	307,229	(7,370,171)	(14,781,383)	988,885
		(441)			329,466	(441)			(441)	329,025	329,026	1
1,070	0	272,474	(8,365,783)	(118,765)	(7,347,934)	391,239	(84,451)	0	306,788	(7,041,146)	(14,452,357)	988,886

Yes NO

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Information from the most recent RRR (2016 for 2018 IRM)

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*	*Approved Recoveries (class allocation* 1595 Recovery Proportion (2015) [1]	1595 Recovery Proportion (2016) [1]	1568 LRAM Variance Account Class Allocation ($ amounts)	Number of Customers for Residential and GS<50 classes[3]
RESIDENTIAL	kWh	1,647,803,823	0	90,346,673	0			1,647,803,823	0	30.4%	30.4%	$439,120	223,311
GENERAL SERVICE LESS THAN 50 KW	kWh	595,148,676	0	103,898,341	0			595,148,676	0	11.0%	11.0%	$327,548	18,774
GENERAL SERVICE 50 TO 4,999 KW	kW	1,811,883,809	4,895,437	1,611,281,237	4,353,439	11,571,593	19,879	1,800,312,216	4,875,558	33.5%	33.5%	$266,735	
LARGE USE (1)	kW	248,933,056	512,416	248,933,056	512,416	34,977,750	121,009	213,955,306	391,407	4.6%	4.6%	$152,122	
LARGE USE (2)	kW	1,065,021,673	1,901,227	1,065,021,673	1,901,227	714,705,719	1,122,772	350,315,955	778,455	19.7%	19.7%	$9,268	
UNMETERED SCATTERED LOAD	kWh	11,571,072	0	388,224	0			11,571,072	0	0.2%	0.2%		
SENTINEL LIGHTING	kW	438,985	1,213	4,428	12			438,985	1,213	0.0%	0.0%		
STREET LIGHTING	kW	31,864,628	88,666	31,636,373	88,031			31,864,628	88,666	0.6%	0.6%	$86,524	
								0	0	0.0%	0.0%		
								0	0	0.0%	0.0%		
								0	0	0.0%	0.0%		
								0	0	0.0%	0.0%		
	Total	5,412,665,721	7,398,959	3,151,510,005	6,855,125	761,255,061	1,263,660	4,651,410,660	6,135,299	100%	100%	$1,281,317	242,085

Threshold Test

Total Claim per Continuity (including Account 1568)	($7,041,146)
RPP True-up Account 1588	$0
Total Claim for Threshold Test (All Group 1 Accounts)	($7,041,146)
Threshold Test (Total claim per kWh) [2]	**($0.0013)**
Exceeds Threshold?	**Yes**
ELECT TO DISPOSE of the Group 1 Account Balances?	**Yes**

1568 Account Balance from Continuity Schedule	**$329,025**
Total Balance of Account 1568 in Column T DOES NOT MATCH the amount entered on the Continuity Schedule	

As per Section 3.2.5 of the 2017 Filing Requirements for Electricity Distribution Rate Applications, an applicant may elect to dispose of the Group 1 account balances below the threshold.

[1] Residual Account balance to be allocated to rate classes in proportion to the recovery share as established when rate riders were implemented.

[2] The Threshold Test does not include the amount in 1568.

[3] The proportion of customers for the Residential and GS<50 Classes will be used to allocate Account 1551.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

No input required. This workshseet allocates the deferral/variance account balances (Group 1 and 1568) to the appropriate classes as per EDDVAR dated July 31, 2009

Allocation of Group 1 Accounts (including Account 1568)

Rate Class	% of Total kWh	% of Total non-RPP kWh	% of Customer Numbers **	% of Total kWh adjusted for WMP	1550	1551	1580 (allocated based on Total less WMP)	1584	1586	1588 (allocated based on Total less WMP)	1595_(2016)	1568
RESIDENTIAL	30.4%	2.9%	92.2%	35.4%	171,033	(22,185)	(1,614,531)	(163,663)	292,193	245,815	179,213	439,120
GENERAL SERVICE LESS THAN 50 KW	11.0%	3.3%	7.8%	12.8%	61,773	(1,865)	(583,131)	(59,111)	105,534	88,783	64,728	327,548
GENERAL SERVICE 50 TO 4,999 KW	33.5%	51.1%	0.0%	38.7%	188,063	0	(1,763,960)	(179,959)	321,289	268,565	197,058	266,735
LARGE USE (1)	4.6%	7.9%	0.0%	4.6%	25,838	0	(209,635)	(24,724)	44,142	31,917	27,074	152,122
LARGE USE (2)	19.7%	33.8%	0.0%	7.5%	110,543	0	(343,242)	(105,780)	188,853	52,259	115,831	9,268
UNMETERED SCATTERED LOAD	0.2%	0.0%	0.0%	0.2%	1,201	0	(11,337)	(1,149)	2,052	1,726	1,258	0
SENTINEL LIGHTING	0.0%	0.0%	0.0%	0.0%	46	0	(430)	(44)	78	65	48	0
STREET LIGHTING	0.6%	1.0%	0.0%	0.7%	3,307	0	(31,221)	(3,165)	5,650	4,753	3,466	86,524
0												
0												
	100.0%	100.0%	100.0%	100.0%	**561,804**	**(24,050)**	**(4,557,490)**	**(537,595)**	**959,790**	**693,884**	**588,675**	**1,281,317**

*** Used to allocate Account 1551 as this account records the variances arising from the Smart Metering Entity Charges to Residential and GS<50 customers.*

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this tab is to calculate the GA rate riders for all current Class B customers of the distributor.
Identify the total billed consumption for former Class B customers prior to becoming Class A customers in Column G.
Effective January 2017, the billing determinant and all rate riders for the disposition of GA balances will be calculated on an energy basis (kWhs) regardless of the billing determinant used for distribution rates for the particular class (see Chapter 3, Filing Requirements, section 3.2.5.2)

	Total Metered Non-RPP consumption minus WMP	Total Metered Class A Consumption in 2016 (partial and/or full year Class A customers)*	Total Metered Consumption for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan. 1 - June 30, 2016)	Total Metered Consumption for New Class B customer(s) in the period after becoming Class B (i.e. Jul 1 - Dec 31, 2016)	Metered Consumption for Current Class B Customers (Non-RPP consumption LESS WMP, Class A and new Class A's former Class B consumption if applicable)	% of total kWh	Total GA $ allocated to Current Class B Customers	GA Rate Rider
	kWh	kWh	kWh	kWh	kWh			
RESIDENTIAL	90,346,673				90,346,673	5.4670%	($259,260)	-$0.0029
GENERAL SERVICE LESS THAN 50 KW	103,898,341				103,898,341	6.2870%	($298,148)	-$0.0029
GENERAL SERVICE 50 TO 4,999 KW	1,599,709,644	159,817,236	26,284,843	12,686,403	1,400,921,161	84.7716%	($4,020,105)	-$0.0029
LARGE USE (1)	213,955,306	188,567,617			25,387,689	1.5362%	($72,853)	-$0.0029
LARGE USE (2)	350,315,955	350,315,955			0	0.0000%	($0)	$0.0000
UNMETERED SCATTERED LOAD	388,224				388,224	0.0235%	($1,114)	-$0.0029
SENTINEL LIGHTING	4,428				4,428	0.0003%	($13)	-$0.0029
STREET LIGHTING	31,636,373				31,636,373	1.9144%	($90,784)	-$0.0029
	2,390,254,943	**698,700,808**	**26,284,843**	**12,686,403**	**1,652,582,889**	**100.0%**	**(4,742,277)**	

from Sheet 6B

*For new Class A customers (who became Class A in 2016), add their consumption only related to July to December period.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the GA balance to former Class B customers who contributed to the current GA balance but are now Class A customers. The tables below calculate specific amounts for each customer who made the change. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed | **2015** | **(e.g. If in the 2017 EDR process, you received approval to dispose the GA variance account balance as of December 31, 2014, please enter 2014 in cell C16.)**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class A (Former Class B) customers

		Total	2016	2015
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	1,691,554,135	1,691,554,135	-
New Class A Customer(s)' Former Class B Consumption	B	30,440,304	30,440,304	-
Portion of Consumption of Former Class B Customers	C=B/A	**1.80%**		

Allocation of Total GA Balance $

Total GA Balance	D	-$ 4,866,346
New Class A Customer(s)' Former Class B Portion of GA Balance	E=C*D	-$ 87,572
GA Balance to be disposed to Current Class B Customers **(if no Class A to Class B Transition Customers)**	F=D-E	-$ 4,778,774

Allocation of GA Balances to Former Class B Customers

# of Former Class B customer(s)			2	9			
Customer		**Total Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2016**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2015**	**% of kWh**	**Customer specific GA allocation for the period prior to becoming Class A**	**Monthly Equal Payments**
Customer 1		22,121,114	22,121,114		72.67%	-$ 63,639	-$ 5,303
Customer 2		4,163,730	4,163,730		13.68%	-$ 11,978	-$ 998
Customer 3		4,155,461	4,155,461		13.65%	-$ 11,955	-$ 996
Customer 4		0			0.00%	$ -	$ -
Customer 5		0			0.00%	$ -	$ -
Customer 6		0			0.00%	$ -	$ -
Customer 7		0			0.00%	$ -	$ -
Customer 8		0			0.00%	$ -	$ -
Customer 9		0			0.00%	$ -	$ -
Customer 10		0			0.00%	$ -	$ -
Customer 11		0			0.00%	$ -	$ -
Total		30,440,304	30,440,304	0	100.00%	-$ 87,572	

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the GA balance to former Class A customers who contributed to the current Class B GA balance once switched to Class B customers. The tables below calculate specific amounts for each customer who made the transition. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2015**	**(e.g. If in the 2017 EDR process, you received approval to dispose the GA variance account balance as of December 31, 2014, please enter 2014 in cell C16.)**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class B (Former Class A) customers

		Total	2016
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	1,691,554,135	1,691,554,135
New Class B Customer(s)' Consumption	B	12,686,403	12,686,403
Portion of Consumption of New Class B Customers	C=B/A	**0.75%**	

Allocation of Total GA Balance $

Total GA Calss B Balance adjusted for Class A	D	-$ 4,866,346	
New Class B Customer(s)' Former Class A Portion of GA Balance attributable to Class B	E=C*D	-$ 36,497	
New Class A Customer(s)' Former Class B Portion of GA Balance	F=Sheet 6A	-$ 87,572	
GA Balance to be disposed to Current Class B Customers	**G=D-E-F**	**-$ 4,742,277**	Input into Sheet 6. GA Calculation

Allocation of GA Balances to Former Class A Customers

# of Former Class B customer(s)			2			
Customer		**Total Metered kWh Consumption for each new Class B customer for the period after becoming Class B**	**Metered kWh Consumption for each new Class B customer for the period after becoming Class B in 2016**	**% of kWh**	**Customer specific GA allocation for the period after becoming Class B**	**Monthly Equal Payments**
Customer 1		4,761,244	4,761,244	37.53%	-$ 13,697	-$ 1,141
Customer 2		7,925,159	7,925,159	62.47%	-$ 22,799	-$ 1,900
				0.00%	$ -	$ -
				0.00%	$ -	$ -
Total		12,686,403	12,686,403	100.00%	-$ 36,497	

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INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this tab is to calculate the CBR rate riders for all current Class B customers of the distributor.
Identify and input the total billed consumption for former Class B customers prior to becoming Class A customers in Column H.
Identify and input the total billed consumption for former Class A customers after becoming Class B customers in Column H.

Account 1580

Variance WMS – Sub-account CBR Class A	-$	0
Variance WMS – Sub-account CBR Class B	-$	188,843

	Total Metered LESS WMP		Total Metered Class A Consumption/Demand in 2016 (partial and/or full year Class A customers)*		Total Metered Consumption/Demand for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan 1 - Jun 30, 2016)		Total Metered Consumption for New Class B customer(s) in the period after becoming Class B (i.e. Jul 1 - Dec 31, 2016)		Metered Consumption for Current Class B Customers (metered consumption/demand LESS WMP, Class A and new Class A's former Class B, if applicable)		% of total kWh	Total CBR $ allocated to Current Class B Customers	CBR Rate Rider
	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW			
RESIDENTIAL	1,647,803,823	0	0		0		0		1,647,803,823	0	42.103%	($78,641)	-$0.00005
GENERAL SERVICE LESS THAN 50 KW	595,148,676	0	0		0		0		595,148,676	0	15.207%	($28,403)	-$0.00005
GENERAL SERVICE 50 TO 4,999 KW	1,800,312,216	4,875,558	159,817,236	343,690	26,284,843	59,946	12,686,403	26,117	1,601,523,733	4,445,804	40.921%	($76,433)	-$0.01719
LARGE USE (1)	213,955,306	391,407	188,567,617	344,714	0	0	0	0	25,387,689	46,692	0.649%	($1,212)	-$0.02595
LARGE USE (2)	350,315,955	778,455	350,315,955	778,455	0		0		0	(0)	0.000%	($0)	$0.00000
UNMETERED SCATTERED LOAD	11,571,072	0	0		0		0		11,571,072	0	0.296%	($552)	-$0.00005
SENTINEL LIGHTING	438,985	1,213	0		0		0		438,985	1,213	0.011%	($21)	-$0.01727
STREET LIGHTING	31,864,628	88,666	0		0		0		31,864,628	88,666	0.814%	($1,521)	-$0.01715
	4,651,410,660	**6,135,299**	**698,700,808**	**1,466,860**	**26,284,843**	**59,946**	**12,686,403**	**26,117**	**3,913,738,606**	**4,582,376**	**100.0%**	**(186,783)**	

from Sheet 7B

*For new Class A customers (who became Class A in 2016), add their consumption only related to July to December period.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the CBR balance to former Class B customers who contributed to the current CBR balance but are now Class A customers. The tables below calculate specific amounts for each customer who made the change. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2015**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class A (Former Class B) customers

		Total	**2016**
Total MeteredConsumption for Years Since Last Disposition (consumption LESS WMP and Class A)	A	3,952,709,852	3,952,709,852
New Class A Customer(s)' Former Class B Consumption	B	30,440,304	30,440,304
Portion of Consumption of Former Class B Customers	C=B/A	**0.77%**	

Allocation of Total CBR Class B Balance $

Total CBR-Class B Balance	D	-$	188,843
New Class A Customer(s)' Former Class B Portion of CBR-Class B Balance	E=C*D	-$	1,454
CBR-Class B Balance to be disposed to Current Class B Customers **(if no Class A to Class B Transition Customers)**	F=D-E	-$	187,389

Allocation of CBR Class B Balances to Former Class B Customers

# of Former Class B customer(s)			2			
Customer		**Total Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2016**	**% of kWh**	**Customer specific CBR-Class B allocation for the period prior to becoming Class A**	**Monthly Equal Payments**
Customer 1		22,121,114	22,121,114	72.67%	-$ 1,057	-$ 88
Customer 2		4,163,730	4,163,730	13.68%	-$ 199	-$ 17
Customer 3		4,155,461	4,155,461	13.65%	-$ 199	-$ 17
Customer 4		0		0.00%	$ -	$ -
Customer 5		0		0.00%	$ -	$ -
Customer 6		0		0.00%	$ -	$ -
Customer 7		0		0.00%	$ -	$ -
Customer 8		0		0.00%	$ -	$ -
Customer 9		0		0.00%	$ -	$ -
Customer 10		0		0.00%	$ -	$ -
Customer 11		0		0.00%	$ -	$ -
Total		30,440,304	30,440,304	100.00%	-$ 1,454	

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the CBR-Class B balance to former Class A customers who contributed to the current CBR-Class B balance once switched to Class B customers. The tables below calculate specific amounts for each customer who made the transition. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2015**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class B (Former Class A) customers

		Total	**2016**
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	3,952,709,852	3,952,709,852
New Class B Customer(s)' Consumption	B	12,686,403	12,686,403
Portion of Consumption of New Class B Customers	C=B/A	**0.32%**	

Allocation of Total CBR-Class B Balance $

Total CBR-Class B Balance adjusted for Class A	D	-$	188,843
New Class B Customer(s)' Former Class A Portion of CBR-Class B Balance attributable to Class B	E=C*D	-$	606
New Class A Customer(s)' Former Class B Portion of CBR-Class B Balance	F=Sheet 6A	-$	1,454
CBR-Class B Balance to be disposed to Current Class B Customers	**G=D-E-F**	**-$**	**186,783**

Input into Sheet 7. CBR Calculation

Allocation of CBR-Class B Balances to Former Class A Customers

# of Former Class B customer(s)			2			
Customer		**Total Metered kWh Consumption for each new Class B customer for the period after becoming Class B**	**Metered kWh Consumption for each new Class B customer for the period after becoming Class B in 2016**	**% of kWh**	**Customer specific CBR-Class B allocation for the period after becoming Class B**	**Monthly Equal Payments**
Customer 1		4,761,244	4,761,244	37.53%	-$ 227	-$ 19
Customer 2		7,925,159	7,925,159	62.47%	-$ 379	-$ 32
				0.00%	$ -	$ -
				0.00%	$ -	$ -
Total		12,686,403	12,686,403	100.00%	-$ 606	

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Input required at cell D13 only. This workshseet calculates rate riders related to the Deferral/Variance Account Disposition (if applicable) and rate riders for Account 1568. Rate Riders will not be generated for the microFIT class.

Default Rate Rider Recovery Period (in months)	**12**
Proposed Rate Rider Recovery Period (in months)	**12**

Rate Rider Recovery to be used below

Rate Class	Unit	Total Metered kWh	Metered kW or kVA	Total Metered kWh less WMP consumption	Total Metered kW less WMP consumption	Allocation of Group 1 Account Balances to All Classes [2]	Allocation of Group 1 Account Balances to Non-WMP Classes Only (if Applicable) [2]	Deferral/Variance Account Rate Rider [2]	Deferral/Variance Account Rate Rider for Non-WMP (if applicable) [2]	Account 1568 Rate Rider	Revenue Reconcilation [1]
RESIDENTIAL	kWh	1,647,803,823	0	1,647,803,823	0	(912,125)		(0.0006)	0.0000	0.0003	
GENERAL SERVICE LESS THAN 50 KW	kWh	595,148,676	0	595,148,676	0	(323,291)		(0.0005)	0.0000	0.0006	
GENERAL SERVICE 50 TO 4,999 KW	kW	1,811,883,809	4,895,437	1,800,312,216	4,875,558	526,451	(1,495,395)	0.1075	(0.3067)	0.0545	
LARGE USE (1)	kW	248,933,056	512,416	213,955,306	391,407	72,329	(177,718)	0.1412	(0.4540)	0.2969	
LARGE USE (2)	kW	1,065,021,673	1,901,227	350,315,955	778,455	309,447	(290,983)	0.1628	(0.3738)	0.0049	
UNMETERED SCATTERED LOAD	kWh	11,571,072	0	11,571,072	0	(6,249)		(0.0005)	0.0000	0.0000	
SENTINEL LIGHTING	kW	438,985	1,213	438,985	1,213	(237)		(0.1954)	0.0000	0.0000	
STREET LIGHTING	kW	31,864,628	88,666	31,864,628	88,666	(17,209)		(0.1941)	0.0000	0.9758	
0											
											(2,314,982)
											0

[1] When calculating the revenue reconciliation for distributors with Class A customers, the balances of sub-account 1580-CBR Class A and B will not be taken into consideration since the rate riders, if any, are calculated outside of the model.

[2] Only for rate classes with WMP customers are the Deferral/Variance Account Rate Riders for Non-WMP (column H and J) calculated separately. For all rate classes without WMP customers, balances in account 1580 and 1588 are included in column H and disposed through a combined Deferral/Variance Account and Rate Rider.

JT.Staff-4

Ref: PRZ-Staff-Supp-2, page 5

a) The 2b unbilled adjustment for 2015 is a credit of $3,462,448. This amount should be reversed in 2016 as the 2a adjustment. The 2a adjustment is a debit of $2,089,774. Please provide an explanation regarding the difference and make updates as required.

Response:

a) To estimate the impact of the unbilled accruals on the GA variance, the December 31, 2015 accrual was compared to the actual billing for December 2015, in January 2016. The 2015 GA Workform analysis has been updated to reconcile to the 2016 estimate. Alectra Utilities identifies that this has no effect on the GA variance balance for disposition. The December 2015 accrual and reversal, and actual billing in January 2016 are all incorporated in the calculation of the GA variance. An updated GA Workform for the PowerStream rate zone has been filed as part of Alectra Utiltiies' response to JTStaff-5.

JT.Staff-5

Ref: PRZ-Staff-Supp-1

a) 2015 GA Analysis:
GA Analysis shows a debit adjustment for $3,462,448 under 2b
GA Analysis shows a credit adjustment for $-239,979 under 4 (i.e. Class A)
PRZ does not show any adjustments for 1589 in the Continuity Schedule in 2015. Please adjust PRZ's continuity schedule for these adjustments.

b) 2016 GA Analysis:
GA Analysis shows a credit adjustment for $4,970,749 under 2b
GA Analysis shows a credit adjustment for $-275,915 under 4 (i.e. Class A)
To ensure that the variances are allocated to non-RPP non-interval Class B customers only, all variances related to Class A and interval customers must be removed. In addition, the impact of current year's unbilled to actual differences should also be removed from the balances proposed for disposition.
PRZ does not show any adjustments for 1589 in the Continuity Schedule in 2016. PRZ's Continuity Schedule should be adjusted for the following items:

- **Reversal of adjustment that were made under 2b and 4 in 2015**
- **2b and 4 adjustments**

Response:

a) The credit and debit adjustments included on the GA Workform have no impact on the amount for disposition or the calculation of the rate riders, and as a result, no adjustment is required to the continuity schedule. Please see Alectra Utilities' response to part b) for additional details.

b) As noted in part a), the proposed 2015 adjustments reverse in 2016 and have no impact on the December 31, 2016 balance for disposition which covers 2015 and 2016.

Alectra Utilities agrees that the credit amount of $4,970,749 represents an overstatement of the GA variance due to the unbilled accrual variance and the balance should be adjusted to reflect a better estimate of the accrued GA revenue and bring the Class B interval metered customers GA variance to $0. As such, Alectra Utilities adjusted PRZ DVA Continuity Schedule (Tab 3. Continuity Schedule of IRM RGM PowerStream RZ model, as well the Tab 3. Continuity Schedule of IRM Model PowerStream RZ. Adjustments were made in Column BF 'Principle Adjustments During 2016" to Account 1589.

Alectra Utilities submits that no adjustment is required for the amount of ($275,915) under 4 (i.e. Class A). This amount was identified as a difference occurring in 2015 and then reversing in 2016. There is no Class A amount in the GA variance balance as at December 31, 2016. The December 31, 2016 Class A GA revenue and cost accruals were the same resulting in a $0 Class A GA variance in account 1589.

Instructions on Account 1589 RSVA - Global Adjustment (GA) Analysis Workform

Purpose:

To calculate an approximate expected balance in Account 1589 RSVA - GA and compare the expected amount to the amount being requested for disposition. Material differences between the two need to be reconciled and explained. Materiality is assessed on an annual basis based on a threshold of +/- 1% of the annual IESO GA charges.

Notes to GA Analysis:

Refer to the GA Analysis Tab to complete the below steps.

Note that this is a generic analysis template, utilities may need to alter the analysis as needed for their specific circumstances. Any alternations to the analysis must be clearly disclosed and explained.

1 Indicate which years the balance requested for disposition pertains to (e.g. 2016 or 2016 and 2015)

2 Complete the Consumption Data Table for consumption (unadjusted for the loss factor) for each year that is being requested for disposition. The data should agree to the RRR data reported, where applicable (i.e. Total Metered excluding WMP, RPP and non-RPP).

3 GA Billing Rate

• Indicate the GA rate that is used to bill customers (also used for unbilled revenue) in the drop down box. Note that the "Other" rate is to represent a combination of the first estimate, second estimate and/or actual rate.

• In the GA Billing Rate Description textbox, provide a description of the GA billing rate that is used, i.e. first estimate, second estimate, or actual. Explain how the GA billing rate is determined for billing cycles that span more than one load month. Confirm that the GA rate that is used is applied consistently for all billing and unbilled revenue transactions for non-RPP Class B customers in each customer class.* In addition, where the same GA rate is not used for non-RPP Class B customers in all customer classes, explain what GA rate is applied to each customer class.

• Where a distributor does not apply the same GA rate to all non-RPP Class B customers, the distributor must adapt the GA Analysis for this and breakdown the monthly non-RPP Class B volumes for each GA rate that was applied.

*O.Reg 429/04, section 16(3)

4 GA Analysis

• Distributors should create a copy of the GA Analysis table in a separate tab for each year that is being requested for disposition, calculate the expected GA balance and determine the reconciliation adjustments (see note 6) for each year.

• The GA Analysis calculates a reasonably expected balance in Account 1589 RSVA – GA. Distributors are charged by the IESO on a calendar/load month basis at the actual GA rate for relevant volumes each month. The methodology used in the GA Analysis is based on the calendar/load month consumption from revenue amounts (derived from billed and unbilled consumption). This is done by taking the billed kWh volumes (which would not be expected to align with the calendar/load month) and deducting the unbilled kWh consumption from the prior month and adding the unbilled kWh consumption of the current month. This approach to calculating monthly kWh volumes is used to represent calendar/load month consumption.

• Once calendar/load month kWh volumes are determined, the monthly GA rate(s) used to bill non-RPP Class B customers for each month as posted by the IESO can be multiplied by the consumption to determine expected GA revenue amounts. Therefore, a blended GA rate will not be required as the kWh volumes for revenues have been approximated on a calendar/load month basis as well. The expected GA revenues can then be compared to the actual GA rate charged by the IESO for each month multiplied by the consumption to determine a balance that can be expected in Account 1589 RSVA-GA.

• This methodology expects volume differences would not be significant. However, if unbilled consumption is not estimated with adequate precision by a distributor, this could impact the expected balance in Account 1589 RSVA-GA, which may have to be considered in the analysis by the distributor.

• Note that distributors who have more precise monthly kWh volume data available based on allocation of billing data by calendar/load month may propose to use this data in the GA Analysis to calculate the expected GA balance. However, any such methodology that differs from the one described above must be disclosed and explained.

Column F : The consumption column is for monthly non-RPP Class B (loss adjusted) consumption billed. Total annual consumption is expected to differ from the Consumption Data Table (note 2) by the loss factor. Utilities are expected to ensure that the difference in consumption between that in column F and the Consumption Data Table are reasonable.

Column G, H : Prior month unbilled consumption is to be deducted and current month unbilled consumption is to be added. Note that monthly non-RPP Class B unbilled consumption may not be readily available and may require estimates or allocations to be done.
Column J : Fill in the GA rate billed by linking the cells to the applicable cells in the GA Rates Per IESO Website Table.
Column L: Fill in the actual GA rate paid by linking the cells to the applicable cells in the GA Rates Per IESO Website Table.

5 Enter the principal amount pertaining to the year requested for disposition from the application. If multiple years are requested for disposition, the annual amount would be the net change in the account balance in the year.

6 Reconciling Items

The purpose of this section is to ensure that reconciling items have been appropriately factored into the GA Analysis. Reconciling items must be considered for each year requested for disposition.
For each reconciling item, indicate whether the item is a reconciling item to the utility's specific circumstances using the column "Applicability of Reconciling Item". Explain how each item applies or does not apply as a reconciling item. Assess if each reconciling item is significant, if so they must be quantified.

Reconciling items may include:

1) Impacts to GA from RPP settlement true up amounts
   Note that effective May 23, 2017, per the OEB's letter titled *Guidance on Disposition of Accounts 1588 and 1589* , applicants must reflect RPP Settlement true-up claims pertaining to the period that is being requested for disposition in Account 1588 and Account 1589.
   a. Prior year impacts should be removed,
   b. Current year impacts should be added.
2) Unbilled revenue differences between the unbilled and actual billed amounts, which could relate to rate used or consumption volumes
   Analyses may have to be performed to identify the portion of the billed amounts that corresponded to the amount that was unbilled and recorded in the general ledger.
   a. Prior year end unbilled revenue differences should be removed,
   b. Current year end unbilled revenue differences should be added.
3) Accrual to actual differences in long term load transfers
   Amounts pertaining to load transfers may be unknown at the end of the year and therefore, are accrued based on an estimate. A true-up to actuals would then be done in the following year. Note that per the December 21, 2015 Distribution System Code Amendment, all load transfer arrangements shall be eliminated by transferring the load transfer customers to the physical distributor by June 21, 2017.
   a. Prior year end differences should be removed
   b. Current year end differences should be added.
4) GA balances pertaining to Class A customers must be excluded from the GA balance as the GA balance should only relate to Class B.
   Transactions pertaining to Class A customers are recorded in Account 1589 RSVA-GA and should net to zero. However, there may be balances pertaining to Class A included in the account at the end of the year due to timing issues. For example, a balance pertaining to Class A customers may exist if revenues are not accrued on the same basis as expenses. If any such balances pertaining to Class A exist, the distributor must also ensure that these amounts are excluded from the Account 1589 RSVA-GA balance requested for disposition.
5) Significant prior period billing adjustments
   Cancel and rebills for billing adjustments may be recorded in the current year revenue GL balance but would not be included in the current year consumption charged by the IESO.
6-10) Any other items that cause differences between the GA analysis and the amount requested for disposition.
   Any remaining unreconciled balance that is greater than +/- 1% of the GA payments to the IESO annually must be analyzed and investigated to identify any additional reconciling items or to identify corrections to the balance requested for disposition.

7 Complete the table to obtain the annual GA expected transactions and cumulative GA balance requested for disposition using each of the GA Analysis of Expected Balance tables (note 5) and Reconciling Items tables (note 6) completed for each year.

Please provide any additional details in the Additional Notes and Comments textbox.

Account 1589 Global Adjustment (GA) Analysis Workform

Input cells
Drop down cells

Note 1 **Year(s) Requested for Disposition** **2015 and 2016**

Note 2 **Consumption Data Excluding for Loss Factor (Data to agree with RRR as applicable)**

Year		2016										
Total Metered excluding WMP	C = A+B	8,518,219,056			-			-			kWh	100%
RPP	A	3,938,250,840									kWh	46.2%
Non RPP	B = D+E	4,579,968,216			-			-			kWh	53.8%
Non-RPP Class A	D	347,276,452									kWh	4.1%
Non-RPP Class B*	E	4,232,691,765									kWh	49.7%

*Non-RPP Class B consumption reported in this table is not expected to directly agree with the Non-RPP Class B Including Loss Adjusted Billed Consumption in the GA Analysis of Expected Balance table below. The difference should be equal to the loss factor.

Note 3 **GA Billing Rate**

GA is billed on the 1st Estimate (Non-interval metered) | Actual (Interval metered)

GA Billing Rate Description

Non-interval metered customers are billed throughout the month and consumption is allocated between months based on the number of days in each month in the billing period. The consumption for each month is billed at the 1st estimate rate for that month.

Interval metered customers are billed for the calendar month in the middle of the next month. Consumption is for a single month and the actual GA rate is known at the time of billing and used to bill GA.

Limitations of PowerStream's billing system calcualtion of unbilled amounts will lead to significant timing differences between the GA revenue booked in the year versusthat shown in the GA Workform. Please see the attached note for a detailed discussion.

Note 4 **GA Analysis of Expected Balance**

Year **2016**

Calendar Month	Non-RPP Class B Including Loss Adjusted Billed Consumption	Deduct Previous Month Unbilled Loss Adjusted Consumption			Add Current Month Unbilled Loss Adjusted Consumption (kWh)			Non-RPP Class B Including Loss Adjusted Consumption, Adjusted for Unbilled	Non-RPP Class B Actual GA Revenue Adjusted for Unbilled	Non-RPP Class B Actual GA Revenue rate including unbilled	GA Rate to be Billed for Month ($/kWh)	$ Consumption at GA Rate Billed	GA Actual Rate Paid ($/kWh)	$ Consumption at Actual Rate Paid	Expected GA Variance ($)	Variance Recorded
	kWh	kWh	$	Rate	kWh	$	Rate	kWh	$	Rate					
	F	G			H			I = F-G+H			J	K = I*J	L	M = I*L	=M-K	
January - Interval metered	153,693,718	171,931,072	$ 19,274,317	$ 0.11210	173,887,766	$ 16,196,535	$ 0.09314	155,650,412	#REF!	#REF!	0.09179	$ 14,287,151	$ 0.09179	$ 14,287,151	$ -	
January - Non-interval metered	198,146,276	217,707,368	$ 17,310,560	$ 0.07951	231,328,610	$ 22,036,603	$ 0.09526	211,767,518	#REF!	#REF!	0.08423	$ 17,837,178	$ 0.09179	$ 19,438,140	$ 1,600,962	
January - Total	**351,839,994**	**389,638,440**	**$ 36,584,877**	$ 0.09389	**405,216,376**	**$ 38,233,138**	$ 0.09435	**367,417,930**	**#REF!**	#REF!		**$ 32,124,329**		**$ 33,725,292**	**$ 1,600,962**	$ 2,239,305
February - Interval metered	165,610,157	173,887,766	$ 16,196,535	$ 0.09314	170,101,848	$ 15,587,133	$ 0.09163	161,824,239	#REF!	#REF!	0.09851	$ 15,941,306	$ 0.09851	$ 15,941,306	$ -	
February - Non-interval metered	181,734,210	231,328,610	$ 22,036,603	$ 0.09526	240,508,567	$ 21,515,706	$ 0.08946	190,914,167	#REF!	#REF!	0.10384	$ 19,824,527	$ 0.09851	$ 18,806,955	-$ 1,017,573	
February - Total	**347,344,367**	**405,216,376**	**$ 38,233,138**	$ 0.09435	**410,610,415**	**$ 37,102,839**	$ 0.09036	**352,738,406**	**#REF!**	#REF!		**$ 35,765,833**		**$ 34,748,260**	**-$ 1,017,573**	-$ 989,276
March - Interval metered	165,782,280	170,101,848	$ 15,587,133	$ 0.09163	175,291,987	$ 17,105,354	$ 0.09758	170,972,419	#REF!	#REF!	0.10610	$ 18,140,174	$ 0.10610	$ 18,140,174	$ -	
March - Non-interval metered	219,641,954	240,508,567	$ 21,515,706	$ 0.08946	219,705,818	$ 21,249,974	$ 0.09672	198,839,205	#REF!	#REF!	0.09022	$ 17,939,273	$ 0.10610	$ 21,096,840	$ 3,157,567	
March - Total	**385,424,234**	**410,610,415**	**$ 37,102,839**	$ 0.09036	**394,997,805**	**$ 38,355,328**	$ 0.09710	**369,811,624**	**#REF!**	#REF!		**$ 36,079,447**		**$ 39,237,013**	**$ 3,157,567**	-$ 429,153
April - Interval metered	165,105,327	175,291,987	$ 17,105,354	$ 0.09758	167,568,671	$ 17,376,664	$ 0.10370	157,382,011	#REF!	#REF!	0.11132	$ 17,519,765	$ 0.11132	$ 17,519,765	$ -	
April - Non-interval metered	206,484,972	219,705,818	$ 21,249,974	$ 0.09672	197,905,999	$ 20,839,873	$ 0.10530	184,685,153	#REF!	#REF!	0.12115	$ 22,374,606	$ 0.11132	$ 20,559,151	-$ 1,815,455	
April - Total	**371,590,299**	**394,997,805**	**$ 38,355,328**	$ 0.09710	**365,474,670**	**$ 38,216,537**	$ 0.10457	**342,067,164**	**#REF!**	#REF!		**$ 39,894,372**		**$ 38,078,917**	**-$ 1,815,455**	$ 3,864,492
May - Interval metered	160,442,548	167,568,671	$ 17,376,664	$ 0.10370	171,396,889	$ 18,982,810	$ 0.11075	164,270,766	#REF!	#REF!	0.10749	$ 17,657,465	$ 0.10749	$ 17,657,465	$ -	
May - Non-interval metered	203,898,518	197,905,999	$ 20,839,873	$ 0.10530	203,040,082	$ 22,355,301	$ 0.11010	209,032,601	#REF!	#REF!	0.10405	$ 21,749,842	$ 0.10749	$ 22,468,914	$ 719,072	
May - Total	**364,341,066**	**365,474,670**	**$ 38,216,537**	$ 0.10457	**374,436,971**	**$ 41,338,111**	$ 0.11040	**373,303,367**	**#REF!**	#REF!		**$ 39,407,307**		**$ 40,126,379**	**$ 719,072**	-$ 3,006,642
June - Interval metered	166,434,449	171,396,889	$ 18,982,810	$ 0.11075	184,574,754	$ 19,932,145	$ 0.10799	179,612,314	#REF!	#REF!	0.09545	$ 17,143,995	$ 0.09545	$ 17,143,995	$ -	
June - Non-interval metered	208,557,257	203,040,082	$ 22,355,301	$ 0.11010	207,072,612	$ 22,489,407	$ 0.10861	212,589,787	#REF!	#REF!	0.11650	$ 24,766,710	$ 0.09545	$ 20,291,695	-$ 4,475,015	
June - Total	**374,991,706**	**374,436,971**	**$ 41,338,111**	$ 0.11040	**391,647,366**	**$ 42,421,552**	$ 0.10832	**392,202,101**	**#REF!**	#REF!		**$ 41,910,706**		**$ 37,435,691**	**-$ 4,475,015**	-$ 7,673,823
July - Interval metered	167,639,867	184,574,754	$ 19,932,145	$ 0.10799	189,360,483	$ 18,202,828	$ 0.09613	172,425,596	#REF!	#REF!	0.08306	$ 14,321,670	$ 0.08306	$ 14,321,670	$ -	
July - Non-interval metered	171,817,006	207,072,612	$ 22,489,407	$ 0.10861	236,301,840	$ 25,611,100	$ 0.10838	201,046,234	#REF!	#REF!	0.07667	$ 15,414,215	$ 0.08306	$ 16,698,900	$ 1,284,685	
July - Total	**339,456,873**	**391,647,366**	**$ 42,421,552**	$ 0.10832	**425,662,323**	**$ 43,813,928**	$ 0.10293	**373,471,830**	**#REF!**	#REF!		**$ 29,735,885**		**$ 31,020,570**	**$ 1,284,685**	-$ 3,743,071
August - Interval metered	171,160,211	189,360,483	$ 18,202,828	$ 0.09613	202,123,096	$ 17,100,329	$ 0.08460	183,922,824	#REF!	#REF!	0.07103	$ 13,064,038	$ 0.07103	$ 13,064,038	$ -	
August - Non-interval metered	240,175,610	236,301,840	$ 25,611,100	$ 0.10838	247,588,492	$ 22,120,871	$ 0.08935	251,462,262	#REF!	#REF!	0.08569	$ 21,547,801	$ 0.07103	$ 17,861,364	-$ 3,686,437	
August - Total	**411,335,821**	**425,662,323**	**$ 43,813,928**	$ 0.10293	**449,711,588**	**$ 39,221,200**	$ 0.08721	**435,385,086**	**#REF!**	#REF!		**$ 34,611,839**		**$ 30,925,403**	**-$ 3,686,437**	$ 152,843
Sept - Interval metered	182,191,497	202,123,096	$ 17,100,329	$ 0.08460	167,770,875	$ 12,903,281	$ 0.07691	147,839,276	#REF!	#REF!	0.09531	$ 14,090,561	$ 0.09531	$ 14,090,561	$ -	
Sept - Non-interval metered	229,519,100	247,588,492	$ 22,120,871	$ 0.08935	192,163,896	$ 17,250,740	$ 0.08977	174,094,504	#REF!	#REF!	0.07060	$ 12,291,072	$ 0.09531	$ 16,592,947	$ 4,301,875	
Sept - Total	**411,710,597**	**449,711,588**	**$ 39,221,200**	$ 0.08721	**359,934,771**	**$ 30,154,021**	$ 0.08378	**321,933,780**	**#REF!**	#REF!		**$ 26,381,633**		**$ 30,683,509**	**$ 4,301,875**	$ 6,681,805
October - Interval metered	164,631,019	167,770,875	$ 12,903,281	$ 0.07691	161,058,352	$ 15,937,500	$ 0.09895	157,918,496	#REF!	#REF!	0.11226	$ 17,727,930	$ 0.11226	$ 17,727,930	$ -	
October - Non-interval metered	207,417,301	192,163,896	$ 17,250,740	$ 0.08977	174,398,971	$ 13,787,389	$ 0.07906	189,652,376	#REF!	#REF!	0.09720	$ 18,434,211	$ 0.11226	$ 21,290,376	$ 2,856,165	
October - Total	**372,048,320**	**359,934,771**	**$ 30,154,021**	$ 0.08378	**335,457,323**	**$ 29,724,889**	$ 0.08861	**347,570,872**	**#REF!**	#REF!		**$ 36,162,141**		**$ 39,018,306**	**$ 2,856,165**	$ 10,779,435
November - Interval metered	158,264,557	161,058,352	$ 15,937,500	$ 0.09895	156,862,946	$ 17,459,507	$ 0.11130	154,069,151	#REF!	#REF!	0.11109	$ 17,115,542	$ 0.11109	$ 17,115,542	$ -	
November - Non-interval metered	216,344,146	174,398,971	$ 13,787,389	$ 0.07906	175,176,717	$ 16,765,241	$ 0.09570	217,121,892	#REF!	#REF!	0.12271	$ 26,643,027	$ 0.11109	$ 24,120,071	-$ 2,522,956	
November - Total	**374,608,703**	**335,457,323**	**$ 29,724,889**	$ 0.08861	**332,039,663**	**$ 34,224,748**	$ 0.10307	**371,191,043**	**#REF!**	#REF!		**$ 43,758,569**		**$ 41,235,613**	**-$ 2,522,956**	-$ 2,967,421
December - Interval metered	158,944,711	156,862,946	$ 17,459,507	$ 0.11130	180,863,758	$ 19,929,942	$ 0.11019	182,945,523	#REF!	#REF!	0.08708	$ 15,930,896	$ 0.08708	$ 15,930,896	$ -	
December - Non-interval metered	171,432,969	175,176,717	$ 16,765,241	$ 0.09570	221,167,055	$ 24,773,701	$ 0.11201	217,423,307	#REF!	#REF!	0.10594	$ 23,033,825	$ 0.08708	$ 18,933,222	-$ 4,100,604	
December - Total	**330,377,680**	**332,039,663**	**$ 34,224,748**	$ 0.10307	**402,030,813**	**$ 44,703,643**	$ 0.11119	**400,368,830**	**#REF!**	#REF!		**$ 38,964,721**		**$ 34,864,118**	**-$ 4,100,604**	-$ 14,725,807
2016 total - Interval metered	1,979,900,341	2,091,928,739	$ 206,058,403	$ 0.09850	2,100,861,425	$ 206,714,028	$ 0.09839	1,988,833,027	#REF!	#REF!		$ 192,940,494		$ 192,940,494	$ -	
2016 total - Non-Interval metered	2,455,169,319	2,542,898,972	$ 243,332,765	$ 0.09569	2,546,358,659	$ 250,795,906	$ 0.09849	2,458,629,006	#REF!	#REF!		$ 241,856,288		$ 238,158,576	-$ 3,697,713	
2016 year - Total	**4,435,069,660**	**4,634,827,711**	**$ 449,391,168**	$ 0.09696	**4,647,220,084**	**$ 457,509,934**	$ 0.09845	**4,447,462,033**	**#REF!**	#REF!		**$ 434,796,783**		**$ 431,099,070**	**-$ 3,697,713**	**-$ 9,817,314**

Note 5

Net Change in Account 1589 Principal Balance in the Year Requested for Disposition -$ 9,817,314
Preliminary Difference -$ 6,119,601

Materiality amount ± 1% $ 4,310,991

Note 6 **Reconciling Items between Expected GA Balance and Amount Requested for Disposition**

	Item	Applicability of Reconciling Item (Y/N)	Amount (Quantify if it is a significant reconciling item)			Explanation
1a	Remove impacts to GA from prior year RPP Settlement true up process that are booked in current year	N				PowerStream books non-RPP GA revenues and costs separately from RPP so no impact. Cost was recorded based on actual rate from IESO invoice at both Dec 31/15 and Dec 31/16.
1b	Add impacts to GA from current year RPP Settlement true up process that are booked in subsequent year	N				PowerStream books non-RPP GA revenues and costs separately from RPP so no impact. Cost was recorded based on actual rate from IESO invoice at both Dec 31/15 and Dec 31/16.
2a	Remove prior year end unbilled to actual revenue differences	Y	($2,089,774)			See 2016 Summary tab
2b	Add current year end unbilled to actual revenue differences	Y	($4,970,749)			See 2016 Summary tab
3a	Remove difference between prior year accrual to forecast from long term load transfers	N				
3b	Add difference between current year accrual to forecast from long term load transfers	N				
4	Remove GA balances pertaining to Class A customers	Y	($275,915)			See 2016 Summary tab
5	Significant prior period billing adjustments included in current year GL balance but would not be included in the billing consumption used in the GA Analysis	N				
6	Total calculated costs using published rates compared to the actual IESO costs	Y	($68,531)			Actual Recorded IESO GA costs are less than the calcuated GA costs per worksheet above. See 2016 Summary tab.
7						
8						
9						
10						
	Total Reconciling Items		($7,404,969)			
	Preliminary Difference		($6,119,601)			
	Unresolved Difference		$1,285,368			
	Unresolved Difference as % of Expected GA Payments to IESO		0.3%			

Note 7 **Cumulative Expected GA Balance (if multiple years requested for disposition)**

Year	Annual Net Change in Expected GA Balance from GA Analysis (cell K47)	Annual Net Change in Principal GA Requesed for Disposition (cell K48)			Preliminary Difference (cell K49)			Total Reconciling Items (cell D70)			Unresolved Difference	Payments to IESO (cell J47)	Unresolved Difference as % of Expected GA Payments to IESO
2015	$ 2,093,364	$ 5,736,837			$ 3,643,473			$ 4,418,900			-$ 775,427	$ 356,017,138	-0.2%
2016	-$ 3,697,713	-$ 9,817,314			-$ 6,119,601			-$ 7,404,969			$ 1,285,368	$ 431,099,070	0.3%
											$ -		0.0%
											$ -		0.0%
Cumulative Balance	**-$ 1,604,348.33**	**-$ 4,080,477.00**			**-$ 2,476,128.67**			**-$ 2,986,069.44**			**$ 509,940.77**	**$ 787,116,208.04**	**N/A**

Additional Notes and Comments

Alectra - PowerStream Rate Zone
2016 Summary Reconciliation - GA Variance

	Summary of Reconciling items	**Amount**	Note
2a	Remove prior year end unbilled to actual revenue differences	($2,089,774)	1
2b	Add current year end unbilled to actual revenue differences	($4,970,749)	2
4	Remove GA balances pertaining to Class A customers	($275,915)	3
6	Total calculated costs using published rates compared to the actual IESO costs	($68,531)	4
	Total	**($7,404,969)**	

Notes

1. Impact of opening unbilled accruals:

Class B interval - impact of reversal of Dec 2015 over accrued revenue	$4,715,111	1a
Class B non-interval - impact of reversal of Dec 2015 under accrued revenue	($6,804,885)	1b
Total	**($2,089,774)**	

1a. Interval metered GA revenue:

	Booked	**Expected**	**Difference**
Billed re December 2015	$ 14,559,206		
less accrual	$ 19,274,317		
Over accrual at Dec 31/15 reduced 2016 GA revenue	$ 4,715,111	$ -	$ 4,715,111

December 2015 billed and accrued amounts come from January 2016 activity within the Workform.

December accrual was based on December billing of November consumption at November 2015 actual rate results in the following differences:

Dec 2015 actual rate	$ 0.09471		
Nov 2015 actual rate	$ 0.11320		
Over accrual due to rate	$ 0.01849	153,693,718	$ 2,841,797
Dec billed kWhs	153,693,718		
Dec accrued kWhs	171,931,072		
Over accrual due to kWhs	18,237,354	$ 0.09471	$ 1,727,260
Opening Accrual impact from rates and quantities differences			**$ 4,569,057**
Unresolved difference			**$ 146,054**
Over accrual at Dec31/15 reduced 2016 GA revenue			**$ 4,715,111**

1b. Non-interval metered GA revenue:

	kWhs	**Amount**	**Avg. Rate**
December 2015 unbilled accrual	217,707,368	$ 17,310,560	$ 0.07951
Estimated accrual based on using 1st estimate rates from NonInt Billing tab for the unbilled periods	217,707,368	$ 24,115,445	$ 0.11077
Under accrual that will increase 2016 revenues		**($6,804,885)**	

2. Impact of closing unbilled accruals:

Class B interval - impact of Dec 2016 over accrued revenue at Nov rate rather than Dec	($3,999,046)
Class B non-interval - impact of 2016 over accrued revenue at previously billed rate vs. expected	($971,703)
Class B - total current year unbilled	**($4,970,749)**

2a. Accrued amount for December 2016:

		Booked		Expected		Difference
Accrued for December 2016	$	19,929,942	$	15,930,896	$	(3,999,046)

December accrual was based on November consumption and pricing. The expected kWhs is based on current month billed plus the difference between previous and current month unbilled, and the pricing is based on the actual GA pricing:

			Quantity	
Dec 2015 unbilled accrual	$	0.11019		
Dec 2015 actual rate	$	0.08708		
Over accrual due to rate	-$	0.02311	180,863,758	$ (4,180,326)
Dec unbilled actual kWhs		180,863,758		
Dec expected unbilled kWhs		182,945,523		
Over accrual due to kWhs		2,081,765	$ 0.08708	$ 181,280
Opening Accrual impact from rates and quantities differences				**$ (3,999,046)**
Unresolved difference				**$ -**
Over accrual at Dec 31/15 reduced 2016 GA revenue				**$ (3,999,046)**

2b. Dec 2016 unbilled accrual difference:

	kWhs		Amount	Avg Rate
Accrued based on past billing amounts	221,167,055	$	24,773,701	0.112013523
Estimated accrual based on using 1st estimate rates for the unbilled periods	221,167,055	$	23,801,998	0.10762
Over accrual that will go into 2016 revenues		**$**	**(971,703)**	

3. Class A - impact of Dec 2015 underaccrued revenue

In theory the class A variance should be $0 as these customers are billed at the actual GA cost/final rate.

At Dec 31/15, the accrued costs were updated to reflect the actual Dec 2015 IESO invoice which was available before the year-end close. However the accrued revenue for Class A was not updated to match the actual cost. This resulted in an overaccrual of $275,915 in Dec 2015 fo Class A GA revenue which when reversed in Janaury reduced the GA revenue for January 2015 and creating a variance that offsets the Dec 2015 variance.

	Dec 2015 accrual		Jan reversal
Dec 2015 Accrued revenue	$ 2,032,547	-$	2,032,547
Dec 2015 Accrued cost	$ 1,756,632	-$	1,756,632
Variance	$ 275,915	-$	275,915

4. NON- RPPn class B:

Variance between Calculated and Actual IESO Costs		
Actual IESO Cost [GL]	$	431,030,539
Calculated GA Cost	$	431,099,070
Difference	**$**	**(68,531)**

Account 1589 Global Adjustment (GA) Analysis Workform

Input cells
Drop down cells

Note 1 **Year(s) Requested for Disposition** **2015 and 2016**

Note 2 **Consumption Data Excluding for Loss Factor (Data to agree with RRR as applicable)**

Year				2015										
Total Metered excluding WMP	C = A+B			8,575,196,237			-			-			kWh	100%
RPP	A			4,028,248,319									kWh	47.0%
Non RPP	B = D+E			4,546,947,919			-			-			kWh	53.0%
Non-RPP Class A	D			223,213,383									kWh	2.6%
Non-RPP Class B*	E			4,323,734,536									kWh	50.4%

*Non-RPP Class B consumption reported in this table is not expected to directly agree with the Non-RPP Class B Including Loss Adjusted Billed Consumption in the GA Analysis of Expected Balance table below. The difference should be equal to the loss factor.

Note 3 **GA Billing Rate**

GA is billed on the 1st Estimate (Non-interval) | Actual (Interval metered)

GA Billing Rate Description

Non-interval metered customers are billed throughout the month and consumption is allocated between months based on the number of days in each month in the billing period. The consumption for each month is billed at the 1st estima te rate for that month.

Interval metered customers are billed for the calendar month in the middle of the next month. Consumption is for a single mo nth and the actual GA rate is known at the time of billing and used to bill GA.

Limitations of Powerstream's billing system calculation of unbilled amounts will lead to significant timing difference betwe en the GA revenue booked in the year versus that shown in the GA workform. Please see the attached note for a detailed discussio n.

Note 4 **GA Analysis of Expected Balance**

Year **2015**

Calendar Month	Non-RPP Class B Including Loss Adjusted Billed Consumption			Deduct Previous Month Unbilled Loss Adjusted Consumption			Add Current Month Unbilled Loss Adjusted Consumption (kWh)			Non-RPP Class B Including Loss Adjusted Consumption, Adjusted for Unbilled	Non-RPP Class B Actual GA Revenue Adjusted for Unbilled	Non-RPP Class B Actual GA Revenue rate including unbilled	GA Rate to be Billed for Month ($/kWh)	$ Consumption at GA Rate Billed	GA Actual Rate Paid ($/kWh)	$ Consumption at Actual Rate Paid	Expected GA Variance ($)	Variance Recorded
	kWh	$	Rate	kWh	$	Rate	kWh	$	Rate	kWh	$	Rate						
	F			G			H			I = F-G+H			J	K = I*J	L	M = I*L	=M-K	
January - Interval metered	172,988,593	12,879,161	$ 0.07445	183,373,642	$ 13,473,063	$ 0.07347	201,210,586	$ 11,192,013	$ 0.05562	190,825,537	$ 10,598,111	$ 0.05554	0.05068	$ 9,671,038	$ 0.05068	$ 9,671,038	$ -	
January - Non-interval metered	234,443,743	17,598,502	$ 0.07506	247,770,414	$ 19,283,985	$ 0.07783	224,602,911	$ 13,187,119	$ 0.05871	211,276,240	$ 11,501,636	$ 0.05444	0.05549	$ 11,723,719	$ 0.05068	$ 10,707,480	-$ 1,016,239	
January - Total	**407,432,336**	**$ 30,477,663**	**$ 0.07480**	**431,144,056**	**$ 32,757,048**	**$ 0.07598**	**425,813,497**	**$ 24,379,132**	**$ 0.05725**	**402,101,777**	**$ 22,099,747**	$ 0.05496		**$ 21,394,757**		**$ 20,378,518**	**-$ 1,016,239**	-$ 2,913,723
February - Interval metered	187,182,042	$ 9,510,258	$ 0.05081	201,210,586	$ 11,192,013	$ 0.05562	182,723,032	$ 12,743,212	$ 0.06974	168,694,488	$ 11,061,457	$ 0.06557	0.03961	$ 6,681,989	$ 0.03961	$ 6,681,989	$ -	
February - Non-interval metered	187,557,091	$ 11,158,468	$ 0.05949	224,602,911	$ 13,187,119	$ 0.05871	242,881,298	$ 16,066,300	$ 0.06615	205,835,478	$ 14,037,649	$ 0.06820	0.06981	$ 14,369,375	$ 0.03961	$ 8,153,143	-$ 6,216,231	
February - Total	**374,739,133**	**$ 20,668,726**	**$ 0.05515**	**425,813,497**	**$ 24,379,132**	**$ 0.05725**	**425,604,330**	**$ 28,809,512**	**$ 0.06769**	**374,529,966**	**$ 25,099,106**	$ 0.06701		**$ 21,051,363**		**$ 14,835,132**	**-$ 6,216,231**	$ 14,158,143
March - Interval metered	175,281,666	$ 6,955,377	$ 0.03968	182,723,032	$ 12,743,212	$ 0.06974	179,096,595	$ 6,454,642	$ 0.03604	171,655,229	$ 666,807	$ 0.00388	0.06290	$ 10,797,114	$ 0.06290	$ 10,797,114	$ -	
March - Non-interval metered	241,378,154	$ 14,868,252	$ 0.06160	242,881,298	$ 16,066,300	$ 0.06615	202,754,198	$ 8,735,132	$ 0.04308	201,251,054	$ 7,537,084	$ 0.03745	0.03604	$ 7,253,088	$ 0.06290	$ 12,658,691	$ 5,405,603	
March - Total	**416,659,820**	**$ 21,823,629**	**$ 0.05238**	**425,604,330**	**$ 28,809,512**	**$ 0.06769**	**381,850,793**	**$ 15,189,774**	**$ 0.03978**	**372,906,283**	**$ 8,203,891**	$ 0.02200		**$ 18,050,202**		**$ 23,455,805**	**$ 5,405,603**	-$ 12,699,490
April - Interval metered	186,744,467	$ 11,746,672	$ 0.06290	179,096,595	$ 6,454,642	$ 0.03604	158,574,550	$ 10,632,335	$ 0.06705	166,222,422	$ 15,924,365	$ 0.09580	0.09559	$ 15,889,201	$ 0.09559	$ 15,889,201	$ -	
April - Non-interval metered	207,416,165	$ 9,461,831	$ 0.04562	202,754,198	$ 8,735,132	$ 0.04308	177,071,152	$ 10,629,692	$ 0.06003	181,733,119	$ 11,356,391	$ 0.06249	0.06705	$ 12,185,206	$ 0.09559	$ 17,371,869	$ 5,186,663	
April - Total	**394,160,632**	**$ 21,208,503**	**$ 0.05381**	**381,850,793**	**$ 15,189,774**	**$ 0.03978**	**335,645,702**	**$ 21,262,027**	**$ 0.06335**	**347,955,541**	**$ 27,280,756**	$ 0.07840		**$ 28,074,407**		**$ 33,261,070**	**$ 5,186,663**	-$ 7,019,637
May - Interval metered	174,674,990	$ 16,696,242	$ 0.09558	158,574,550	$ 10,632,335	$ 0.06705	178,503,529	$ 16,807,892	$ 0.09416	194,603,969	$ 22,871,799	$ 0.11753	0.09668	$ 18,814,312	$ 0.09668	$ 18,814,312	$ -	
May - Non-interval metered	125,484,539	$ 8,310,996	$ 0.06623	177,071,152	$ 10,629,692	$ 0.06003	214,886,322	$ 19,963,447	$ 0.09290	163,299,709	$ 17,644,751	$ 0.10805	0.09416	$ 15,376,301	$ 0.09668	$ 15,787,816	$ 411,515	
May - Total	**300,159,529**	**$ 25,007,238**	**$ 0.08331**	**335,645,702**	**$ 21,262,027**	**$ 0.06335**	**393,389,851**	**$ 36,771,339**	**$ 0.09347**	**357,903,678**	**$ 40,516,550**	$ 0.11321		**$ 34,190,612**		**$ 34,602,128**	**$ 411,515**	$ 4,681,715
June - Interval metered	173,812,036	$ 16,804,148	$ 0.09668	178,503,529	$ 16,807,892	$ 0.09416	165,848,323	$ 15,304,483	$ 0.09228	161,156,830	$ 15,300,739	$ 0.09494	0.09540	$ 15,374,362	$ 0.09540	$ 15,374,362	$ -	
June - Non-interval metered	245,045,171	$ 21,001,113	$ 0.08570	214,886,322	$ 19,963,447	$ 0.09290	199,544,842	$ 18,413,998	$ 0.09228	229,703,691	$ 19,451,664	$ 0.08468	0.09228	$ 21,197,057	$ 0.09540	$ 21,913,732	$ 716,676	
June - Total	**418,857,207**	**$ 37,805,261**	**$ 0.09026**	**393,389,851**	**$ 36,771,339**	**$ 0.09347**	**365,393,165**	**$ 33,718,481**	**$ 0.09228**	**390,860,521**	**$ 34,752,403**	$ 0.08891		**$ 36,571,418**		**$ 37,288,094**	**$ 716,676**	-$ 3,205,491
July - Interval metered	193,223,590	$ 18,445,002	$ 0.09546	165,848,323	$ 15,304,483	$ 0.09228	173,290,631	$ 15,402,071	$ 0.08888	200,665,898	$ 18,542,590	$ 0.09241	0.07883	$ 15,818,493	$ 0.07883	$ 15,818,493	$ -	
July - Non-interval metered	190,123,731	$ 17,418,149	$ 0.09161	199,544,842	$ 18,413,998	$ 0.09228	210,782,786	$ 18,734,374	$ 0.08888	201,361,675	$ 17,738,525	$ 0.08809	0.08888	$ 17,897,026	$ 0.07883	$ 15,873,341	-$ 2,023,685	
July - Total	**383,347,321**	**$ 35,863,151**	**$ 0.09355**	**365,393,165**	**$ 33,718,481**	**$ 0.09228**	**384,073,417**	**$ 34,136,445**	**$ 0.08888**	**402,027,573**	**$ 36,281,115**	$ 0.09025		**$ 33,715,518**		**$ 31,691,834**	**-$ 2,023,685**	$ 3,350,219
August - Interval metered	178,529,113	$ 14,124,972	$ 0.07912	173,290,631	$ 15,402,071	$ 0.08888	169,918,476	$ 14,961,322	$ 0.08805	175,156,958	$ 13,684,223	$ 0.07813	0.08010	$ 14,030,072	$ 0.08010	$ 14,030,072	$ -	
August - Non-interval metered	184,379,101	$ 16,452,900	$ 0.08923	210,782,786	$ 18,734,374	$ 0.08888	209,123,190	$ 18,413,297	$ 0.08805	182,719,505	$ 16,131,823	$ 0.08829	0.08805	$ 16,088,452	$ 0.08010	$ 14,635,832	-$ 1,452,620	
August - Total	**362,908,214**	**$ 30,577,872**	**$ 0.08426**	**384,073,417**	**$ 34,136,445**	**$ 0.08888**	**379,041,666**	**$ 33,374,619**	**$ 0.08805**	**357,876,463**	**$ 29,816,046**	$ 0.08331		**$ 30,118,525**		**$ 28,665,905**	**-$ 1,452,620**	$ 5,622,452
Sept - Interval metered	175,264,521	$ 14,039,151	$ 0.08010	169,918,476	$ 14,961,322	$ 0.08805	184,539,938	$ 14,771,552	$ 0.08005	189,885,983	$ 13,849,381	$ 0.07294	0.06703	$ 12,728,057	$ 0.06703	$ 12,728,057	$ -	
Sept - Non-interval metered	228,666,750	$ 20,003,035	$ 0.08748	209,123,190	$ 18,413,297	$ 0.08805	242,912,853	$ 21,286,703	$ 0.08763	262,456,413	$ 22,876,441	$ 0.08716	0.08270	$ 21,705,145	$ 0.06703	$ 17,592,453	-$ 4,112,692	
Sept - Total	**403,931,271**	**$ 34,042,186**	**$ 0.08428**	**379,041,666**	**$ 33,374,619**	**$ 0.08805**	**427,452,791**	**$ 36,058,255**	**$ 0.08436**	**452,342,396**	**$ 36,725,822**	$ 0.08119		**$ 34,433,203**		**$ 30,320,511**	**-$ 4,112,692**	$ 1,851,937
October - Interval metered	173,279,209	$ 11,614,767	$ 0.06703	184,539,938	$ 14,771,552	$ 0.08005	158,984,966	$ 13,489,369	$ 0.08485	147,724,237	$ 10,332,584	$ 0.06995	0.07544	$ 11,144,316	$ 0.07544	$ 11,144,316	$ -	
October - Non-interval metered	230,295,191	$ 18,625,611	$ 0.08088	242,912,853	$ 21,286,703	$ 0.08763	177,231,761	$ 12,420,382	$ 0.07008	164,614,099	$ 9,759,290	$ 0.05929	0.06371	$ 10,487,564	$ 0.07544	$ 12,418,488	$ 1,930,923	
October - Total	**403,574,400**	**$ 30,240,378**	**$ 0.07493**	**427,452,791**	**$ 36,058,255**	**$ 0.08436**	**336,216,727**	**$ 25,909,751**	**$ 0.07706**	**312,338,336**	**$ 20,091,874**	$ 0.06433		**$ 21,631,881**		**$ 23,562,804**	**$ 1,930,923**	-$ 167,192
November - Interval metered	165,067,549	$ 12,452,844	$ 0.07544	158,984,966	$ 13,489,369	$ 0.08485	166,143,193	$ 12,102,481	$ 0.07284	172,225,776	$ 11,065,956	$ 0.06425	0.11320	$ 19,495,958	$ 0.11320	$ 19,495,958	$ -	
November - Non-interval metered	182,553,287	$ 12,576,691	$ 0.06889	177,231,761	$ 12,420,382	$ 0.07008	195,504,819	$ 14,125,029	$ 0.07225	200,826,345	$ 14,281,338	$ 0.07111	0.07623	$ 15,308,992	$ 0.11320	$ 22,733,542	$ 7,424,550	
November - Total	**347,620,836**	**$ 25,029,535**	**$ 0.07200**	**336,216,727**	**$ 25,909,751**	**$ 0.07706**	**361,648,012**	**$ 26,227,510**	**$ 0.07252**	**373,052,121**	**$ 25,347,294**	$ 0.06795		**$ 34,804,950**		**$ 42,229,500**	**$ 7,424,550**	-$ 22,187,223
December - Interval metered	162,429,628	$ 18,342,743	$ 0.11293	166,143,193	$ 12,102,481	$ 0.07284	171,931,072	$ 19,274,317	$ 0.11210	168,217,507	$ 25,514,579	$ 0.15168	0.09471	$ 15,931,880	$ 0.09471	$ 15,931,880	$ -	
December - Non-interval metered	186,792,892	$ 15,422,073	$ 0.08256	195,504,819	$ 14,125,029	$ 0.07225	217,707,368	$ 17,310,560	$ 0.07951	208,995,441	$ 18,607,604	$ 0.08903	0.11462	$ 23,955,057	$ 0.09471	$ 19,793,958	$ 4,161,099	
December - Total	**349,222,520**	**$ 33,764,816**	**$ 0.09669**	**361,648,012**	**$ 26,227,510**	**$ 0.07252**	**389,638,440**	**$ 36,584,877**	**$ 0.09389**	**377,212,948**	**$ 44,122,183**	$ 0.11697		**$ 39,886,938**		**$ 35,725,838**	**$ 4,161,099**	$ 12,791,451
Net Change in Expected GA Balance	**4,562,613,219**			**4,647,274,007**			**4,605,768,391**			**4,521,107,603**				**$ 353,923,774**		**356,017,138**	**2,093,364**	**-$ 5,736,837**

Note 5

Net Change in Account 1589 Principal Balance in the Year Requested for Disposition	$ 5,736,837
Preliminary Difference	$ 3,643,473

Materiality amount ± 1% $ 3,560,171

Note 6 **Reconciling Items between Expected GA Balance and Amount Requested for Disposition**

	Item	Applicability of Reconciling Item (Y/N)			Amount (Quantify if it is a significant reconciling item)			Explanation
1a	Remove impacts to GA from prior year RPP Settlement true up process that are booked in current year	N						PowerStream books non-RPP GA revenues and costs separately from RPP so no impact. Cost was recorded based on actual rate from IESO invoice at both Dec 31/14 and Dec 31/15.
1b	Add impacts to GA from current year RPP Settlement true up process that are booked in subsequent year	N						PowerStream books non-RPP GA revenues and costs separately from RPP so no impact. Cost was recorded based on actual rate from IESO invoice at both Dec 31/14and Dec 31/15.
2a	Remove prior year end unbilled to actual revenue differences	Y			$1,104,323			See 2015 Summary tab
2b	Add current year end unbilled to actual revenue differences	Y			$2,089,774			See 2015 Summary tab
3a	Remove difference between prior year accrual to forecast from long term load transfers	N						
3b	Add difference between current year accrual to forecast from long term load transfers	N						
4	Remove GA balances pertaining to Class A customers	Y			($239,979)			See 2015 Summary tab
5	Significant prior period billing adjustments included in current year GL balance but would not be included in the billing consumption used in the GA Analysis	N						
6	Total calculated costs using published rates compared to the actual IESO costs	Y			$ 92,108			Actual Non RPP Class B GL costs are greater than the GA Calculated workform amount . See 2015 Summary tab.
7								
8								
9								
10								
	Total Reconciling Items				$ 3,046,226			
	Preliminary Difference				$ 3,643,473			
	Unresolved Difference				$ 597,247			
	Unresolved Difference as % of Expected GA Payments to IESO				-0.2%			

Note 7 **Cumulative Expected GA Balance (if multiple years requested for disposition)**

Year	Annual Net Change in Expected GA Balance from GA Analysis (cell K47)			Annual Net Change in Principal GA Requesed for Disposition (cell K48)			Preliminary Difference (cell K49)			Total Reconciling Items (cell D70)			Unresolved Difference	Payments to IESO (cell J47)	Unresolved Difference as % of Expected GA Payments to IESO
2015	$ 2,093,364			$ 5,736,837			$ 3,643,473			$ 4,418,900			-$ 775,427	$ 356,017,138	-0.2%
													$ -		0.0%
													$ -		0.0%
													$ -		0.0%
Cumulative Balance	**$ 2,093,364.39**			**$ 5,736,837.00**			**$ 3,643,472.61**			**$ 4,418,899.73**			**-$ 775,427.13**	**$ 356,017,138.21**	**N/A**

Additional Notes and Comments

Alectra - PowerStream Rate Zone
2015 Summary Reconciliation - GA Variance

	Summary of Reconciling items	**Amount**	Note
2a	Remove prior year end unbilled to actual revenue differences	$1,104,323	1
2b	Add current year end unbilled to actual revenue differences	$2,089,774	2
4	Remove GA balances pertaining to Class A customers	($239,979)	3
6	Total calculated costs using published rates compared to the actual IESO costs	$92,108	4
	Total	**$3,046,226**	

Notes

1. Impact of opening unbilled accruals:

Class B interval - impact of reversal of Dec 2014 over accrued revenue	$593,902	1a
Class B non-interval - impact of reversal of Dec 2014 over accrued revenue	$510,421	1b
Total	**$1,104,323**	

1a. Interval metered GA revenue:	**Booked**	**Expected**	**Difference**
Actual revenue for December 2014 billed in January 2015	$ 12,879,161		
less accrual December 2014	$ 13,473,063		
Over accrual at Dec 31/14 reduced 2015 GA revenue	$ 593,902	$ -	$ 593,902

December accrual was based on December billing of November consumption using December 2014 first estimate rate results in the following differences:

			Quantity	
Dec 2014 actual rate	$	0.07444		
Dec 2014 first estimate rate	$	0.07318		
Under accrual due to rate	-$	0.00126	172,988,593	$ (217,966)
Dec billed kWhs		172,988,593		
Dec accrued kWhs		183,373,642		
Over accrual due to kWhs		10,385,049	$ 0.07444	$ 773,063
Opening Accrual impact from rates and quantities differences				**$ 555,097**
Unresolved difference				**$ 38,805**
Over accrual at Dec 31/14 reduced 2015 GA revenue				**$ 593,902**

1b. Non-interval metered GA revenue:	**kWhs**	**Amount**	**Avg. Rate**
December 2014 unbilled accrual	247,770,414	$ 19,283,985	$ 0.07783
Estimated accrual based on using 1st estimate rates from NonInt Billing tab for the unbilled periods	247,770,414	$ 18,773,564	$ 0.07577
Over accrual that will reduce 2015 revenues		**$510,421**	

2. Impact of closing unbilled accruals:

Class B interval - impact of reversal of Dec 2015 over accrued revenue	($4,715,111)	2a
Class B non-interval - impact of reversal of Dec 2015 under accrued revenue	$6,804,885	2b
Total	**$2,089,774**	

	Interval metered GA revenue:	**nbilled vs. Estimated**
2a.	Billed re December 2015	$ 14,559,206
	less accrual	$ 19,274,317
	Over accrual at Dec 31/15 reduced 2016 GA revenue	($4,715,111)

December 2015 billed and accrued amounts come from January 2016 activity within the Workform.

December accrual was based on December billing of November consumption at November

2015 actual rate results in the following differences:

Dec 2015 actual rate	$	0.09471			
Nov 2015 actual rate	$	0.11320			
Over accrual due to rate	-$	0.01849	153,693,718	-$	2,841,797
Dec billed kWhs		153,693,718			
Dec accrued kWhs		171,931,072			
Over accrual due to kWhs	-	18,237,354	$ 0.09471	-$	1,727,260
Closing Accrual impact from rates and quantities differences					**($4,569,057)**
Unresolved difference					**($146,054)**
Over accrual at Dec31/15 increased 2015 GA revenue					**($4,715,111)**

2b. Non-interval metered GA revenue:

	kWhs	Amount	Avg. Rate
December 2015 unbilled accrual	217,707,368	$ 17,310,560	$ 0.07951
Estimated accrual based on using 1st estimate rates from NonInt Billing tab for the unbilled periods	217,707,368	$ 24,115,445	$ 0.11077
Under accrual that decreased 2015 revenues		**$6,804,885**	

3. Class A - impact of Dec 2014 underaccrued revenue:

In theory the class A variance should be $0 as these customers are billed at the actual GA cost/final rate.

At Dec 31/14, the accrued costs were updated to reflect the actual Dec 2014 IESO invoice which was available before the year-end close. However the accrued revenue for Class A was not updated to match the actual cost. This resulted in an overaccrual of $239,979 in Dec 2014 for Class A GA revenue which when reversed in Janaury reduced the GA revenue for January 2015 and creating a variance that offsets the Dec 2014 variance.

	Dec 2014 accrual	Jan reversal
Dec 2014 Accrued revenue	$ 774,407	$ (774,407)
Dec 2014 Accrued cost	$ 534,428	$ (534,428)
Variance	$ 239,979	$ (239,979)

4. NON- RPPn class B:

Variance between Calculated and Actual IESO Costs		
Actual IESO Cost [GL]	$	356,109,246
Calculated GA Cost	$	356,017,138
Difference	**$**	**92,108**

Alectra - PS Rate Zone: GA Variance Analysis
Class B Non-RPP Non-interval Billing - estimated rates for billed and unbilled CC&B methodology

		"Typical" Cycle Billing pattern					December 2014			January 2015			February 2015			March 2015			April 2015		
		Billed days			Unbilled da		Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled
Day of Month	Read date	2nd last month	last month	this month	last month	this month	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate
1	16	15	16	-	15	31	0.08735	0.00557	0.08160	0.08568	0.00547	0.06126	0.06405	0.00409	0.06514	0.06288	0.00401	0.04705	0.05238	0.00334	0.05694
2	17	14	17	-	14	31	0.08813	0.00550	0.08122	0.08485	0.00530	0.06099	0.06348	0.00396	0.06535	0.06334	0.00395	0.04655	0.05129	0.00320	0.05740
3	18	13	18	-	13	31	0.08891	0.00543	0.08081	0.08401	0.00513	0.06072	0.06291	0.00384	0.06558	0.06380	0.00389	0.04602	0.05020	0.00306	0.05789
4	19	12	19	-	12	31	0.08968	0.00535	0.08039	0.08318	0.00496	0.06043	0.06234	0.00372	0.06581	0.06427	0.00383	0.04546	0.04911	0.00293	0.05840
5	20	11	20	-	11	31	0.09046	0.00527	0.07995	0.08235	0.00480	0.06012	0.06177	0.00360	0.06606	0.06473	0.00377	0.04488	0.04802	0.00280	0.05893
6																					
7																					
8	23	8	23	-	8	31	0.09279	0.00502	0.07848	0.07985	0.00432	0.05912	0.06006	0.00325	0.06687	0.06611	0.00358	0.04297	0.04475	0.00242	0.06069
9	24	7	24	-	7	31	0.09357	0.00493	0.07794	0.07901	0.00416	0.05875	0.05948	0.00314	0.06717	0.06658	0.00351	0.04226	0.04367	0.00230	0.06134
10	25	6	25	-	6	31	0.09435	0.00484	0.07737	0.07818	0.00401	0.05836	0.05891	0.00302	0.06749	0.06704	0.00344	0.04152	0.04258	0.00218	0.06202
11	26	5	26	-	5	31	0.09512	0.00475	0.07677	0.07735	0.00386	0.05795	0.05834	0.00291	0.06782	0.06750	0.00337	0.04073	0.04149	0.00207	0.06274
12	27	4	27	-	4	31	0.09590	0.00466	0.07613	0.07651	0.00371	0.05751	0.05777	0.00280	0.06817	0.06796	0.00330	0.03990	0.04040	0.00196	0.06351
13																					
14																					
15	30	1	30	-	1	31	0.09823	0.00436	0.07399	0.07401	0.00328	0.05604	0.05606	0.00249	0.06936	0.06935	0.00308	0.03710	0.03713	0.00165	0.06608
16	31	-	31	-	-	31	0.09901	0.00426	0.07318	0.07318	0.00315	0.05549	0.05549	0.00239	0.06981	0.06981	0.00300	0.03604	0.03604	0.00155	0.06705
17	1	-	30	1	-	30	0.09818	0.00409	0.07318	0.07261	0.00302	0.05549	0.05595	0.00233	0.06981	0.06872	0.00286	0.03604	0.03704	0.00154	0.06705
18	2	-	29	2	-	29	0.09734	0.00392	0.07318	0.07204	0.00290	0.05549	0.05641	0.00227	0.06981	0.06763	0.00272	0.03604	0.03804	0.00153	0.06705
19	3	-	28	3	-	28	0.09651	0.00375	0.07318	0.07147	0.00278	0.05549	0.05688	0.00221	0.06981	0.06654	0.00258	0.03604	0.03904	0.00152	0.06705
20																					
21																					
22	6	-	25	6	-	25	0.09401	0.00326	0.07318	0.06976	0.00242	0.05549	0.05826	0.00202	0.06981	0.06327	0.00219	0.03604	0.04204	0.00146	0.06705
23	7	-	24	7	-	24	0.09318	0.00310	0.07318	0.06919	0.00230	0.05549	0.05872	0.00195	0.06981	0.06218	0.00207	0.03604	0.04304	0.00143	0.06705
24	8	-	23	8	-	23	0.09234	0.00295	0.07318	0.06861	0.00219	0.05549	0.05919	0.00189	0.06981	0.06110	0.00195	0.03604	0.04404	0.00140	0.06705
25	9	-	22	9	-	22	0.09151	0.00279	0.07318	0.06804	0.00208	0.05549	0.05965	0.00182	0.06981	0.06001	0.00183	0.03604	0.04504	0.00137	0.06705
26	10	-	21	10	-	21	0.09068	0.00264	0.07318	0.06747	0.00197	0.05549	0.06011	0.00175	0.06981	0.05892	0.00172	0.03604	0.04604	0.00134	0.06705
27																					
28																					
29	13	-	18	13	-	18	0.08818	0.00220	0.07318	0.06576	0.00164	0.05549	0.06150	0.00154	0.06981	0.05565	0.00139	0.03604	0.04904	0.00122	0.06705
30	14	-	17	14	-	17	0.08734	0.00206	0.07318	0.06519	0.00154	0.05549	0.06196	0.00146	0.06981	0.05456	0.00129	0.03604	0.05004	0.00118	0.06705
31	15	-	16	15	-	16	0.08651	0.00192	0.07318	0.06462	0.00143	0.05549	0.06242	0.00139	0.06981	0.05347	0.00119	0.03604	0.05104	0.00113	0.06705
Total	23	96	529	88	96	625															
Average		4.17	23.00	3.83	4.17	27.17	0.09258	0.09260	0.07577	0.07447	0.07641	0.05727	0.05964	0.05982	0.06837	0.06371	0.06452	0.03943	0.04441	0.04461	0.06394
Average days				31.00		31.35															
%		13.5%	74.2%	12.3%	13.3%	86.7%	0.09258		0.07662	0.07447		0.05785	0.05964		0.06790	0.06371		0.04054	0.04441		0.06292

1st Estimate Rates:

2nd previous month							0.07492			0.09901			0.07318			0.05549			0.06981		
Previous month							0.09901			0.07318			0.05549			0.06981			0.03604		
Current month							0.07318			0.05549			0.06981			0.03604			0.06705		

Alectra - PS Rate Zone: GA Variance Analysis
Class B Non-RPP Non-interval Billing - estimated rates for billed and unbilled

		"Typical" Cycle Billing pattern					**May 2015**			**June 2015**			**July 2015**			**August 2015**			**September 2015**		
		Billed days			Unbilled da		Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled
Day of Month	Read date	2nd last month	last month	this month	last month	this month	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate
1	16	15	16	-	15	31	0.05205	0.00332	0.08532	0.08104	0.00517	0.09289	0.09319	0.00595	0.08999	0.09053	0.00578	0.08832	0.08845	0.00564	0.08444
2	17	14	17	-	14	31	0.05305	0.00331	0.08573	0.08192	0.00511	0.09286	0.09313	0.00581	0.08994	0.09042	0.00564	0.08831	0.08842	0.00552	0.08436
3	18	13	18	-	13	31	0.05405	0.00330	0.08615	0.08279	0.00505	0.09284	0.09307	0.00568	0.08988	0.09031	0.00551	0.08830	0.08840	0.00539	0.08428
4	19	12	19	-	12	31	0.05505	0.00328	0.08659	0.08367	0.00499	0.09280	0.09301	0.00555	0.08983	0.09020	0.00538	0.08828	0.08837	0.00527	0.08419
5	20	11	20	-	11	31	0.05605	0.00326	0.08706	0.08454	0.00492	0.09277	0.09295	0.00541	0.08977	0.09009	0.00525	0.08827	0.08834	0.00515	0.08410
6																					
7																					
8	23	8	23	-	8	31	0.05905	0.00319	0.08860	0.08716	0.00471	0.09267	0.09277	0.00502	0.08958	0.08976	0.00486	0.08822	0.08826	0.00477	0.08380
9	24	7	24	-	7	31	0.06005	0.00316	0.08917	0.08804	0.00464	0.09263	0.09270	0.00489	0.08951	0.08965	0.00472	0.08820	0.08824	0.00465	0.08369
10	25	6	25	-	6	31	0.06105	0.00313	0.08976	0.08891	0.00456	0.09258	0.09264	0.00475	0.08943	0.08954	0.00459	0.08818	0.08821	0.00453	0.08357
11	26	5	26	-	5	31	0.06205	0.00310	0.09039	0.08979	0.00448	0.09254	0.09258	0.00462	0.08935	0.08943	0.00447	0.08817	0.08818	0.00440	0.08344
12	27	4	27	-	4	31	0.06305	0.00306	0.09106	0.09066	0.00440	0.09249	0.09252	0.00449	0.08927	0.08932	0.00434	0.08814	0.08816	0.00428	0.08331
13																					
14																					
15	30	1	30	-	1	31	0.06605	0.00293	0.09331	0.09329	0.00414	0.09234	0.09234	0.00410	0.08899	0.08899	0.00395	0.08808	0.08808	0.00391	0.08287
16	31	-	31	-	-	31	0.06705	0.00288	0.09416	0.09416	0.00405	0.09228	0.09228	0.00397	0.08888	0.08888	0.00382	0.08805	0.08805	0.00379	0.08270
17	1	-	30	1	-	30	0.06792	0.00283	0.09416	0.09410	0.00392	0.09228	0.09217	0.00384	0.08888	0.08885	0.00370	0.08805	0.08788	0.00366	0.08270
18	2	-	29	2	-	29	0.06880	0.00277	0.09416	0.09404	0.00378	0.09228	0.09206	0.00370	0.08888	0.08883	0.00357	0.08805	0.08770	0.00353	0.08270
19	3	-	28	3	-	28	0.06967	0.00271	0.09416	0.09398	0.00365	0.09228	0.09195	0.00357	0.08888	0.08880	0.00345	0.08805	0.08753	0.00340	0.08270
20																					
21																					
22	6	-	25	6	-	25	0.07230	0.00251	0.09416	0.09380	0.00325	0.09228	0.09162	0.00318	0.08888	0.08872	0.00308	0.08805	0.08701	0.00302	0.08270
23	7	-	24	7	-	24	0.07317	0.00244	0.09416	0.09374	0.00312	0.09228	0.09151	0.00305	0.08888	0.08869	0.00295	0.08805	0.08684	0.00289	0.08270
24	8	-	23	8	-	23	0.07405	0.00236	0.09416	0.09367	0.00299	0.09228	0.09140	0.00292	0.08888	0.08867	0.00283	0.08805	0.08667	0.00276	0.08270
25	9	-	22	9	-	22	0.07492	0.00229	0.09416	0.09361	0.00286	0.09228	0.09129	0.00279	0.08888	0.08864	0.00270	0.08805	0.08650	0.00264	0.08270
26	10	-	21	10	-	21	0.07580	0.00221	0.09416	0.09355	0.00272	0.09228	0.09118	0.00266	0.08888	0.08861	0.00258	0.08805	0.08632	0.00251	0.08270
27																					
28																					
29	13	-	18	13	-	18	0.07842	0.00196	0.09416	0.09337	0.00233	0.09228	0.09085	0.00227	0.08888	0.08853	0.00221	0.08805	0.08581	0.00214	0.08270
30	14	-	17	14	-	17	0.07929	0.00187	0.09416	0.09331	0.00220	0.09228	0.09074	0.00214	0.08888	0.08851	0.00209	0.08805	0.08563	0.00202	0.08270
31	15	-	16	15	-	16	0.08017	0.00178	0.09416	0.09325	0.00207	0.09228	0.09063	0.00201	0.08888	0.08848	0.00196	0.08805	0.08546	0.00190	0.08270
Total	23	96	529	88	96	625															
Average		4.17	23.00	3.83	4.17	27.17	0.06622	0.06365	0.09144	0.09028	0.08913	0.09247	0.09211	0.09235	0.08922	0.08924	0.08943	0.08813	0.08750	0.08777	0.08324
Average days				31.00		31.35															
%		13.5%	74.2%	12.3%	13.3%	86.7%	0.06622		0.09055	0.09028		0.09253	0.09211		0.08933	0.08924		0.08816	0.08750		0.08341
1st Estimate Rates:																					
2nd previous month							0.03604			0.06705			0.09416			0.09228			0.08888		
Previous month							0.06705			0.09416			0.09228			0.08888			0.08805		
Current month							0.09416			0.09228			0.08888			0.08805			0.08270		

Alectra - PS Rate Zone: GA Variance Analysis
Class B Non-RPP Non-interval Billing - estimated rates for billed and unbilled

		"Typical" Cycle Billing pattern					**October 2015**			**November 2015**			**December 2015**			**January 2016**			**March 2016**		
		Billed days			Unbilled da		Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled
Day of Month	Read date	2nd last month	last month	this month	last month	this month	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate
1	16	15	16	-	15	31	0.08529	0.00544	0.06990	0.07290	0.00465	0.07215	0.07017	0.00448	0.10210	0.09604	0.00613	0.09414	0.09893	0.00631	0.09745
2	17	14	17	-	14	31	0.08512	0.00531	0.06962	0.07229	0.00451	0.07233	0.07058	0.00440	0.10268	0.09728	0.00607	0.09368	0.09795	0.00611	0.09774
3	18	13	18	-	13	31	0.08494	0.00518	0.06932	0.07167	0.00437	0.07253	0.07098	0.00433	0.10328	0.09852	0.00601	0.09321	0.09697	0.00592	0.09805
4	19	12	19	-	12	31	0.08477	0.00506	0.06901	0.07106	0.00424	0.07274	0.07138	0.00426	0.10391	0.09976	0.00595	0.09271	0.09599	0.00573	0.09837
5	20	11	20	-	11	31	0.08460	0.00493	0.06868	0.07045	0.00410	0.07295	0.07179	0.00418	0.10457	0.10100	0.00588	0.09219	0.09501	0.00553	0.09870
6																					
7																					
8	23	8	23	-	8	31	0.08408	0.00455	0.06761	0.06861	0.00371	0.07366	0.07300	0.00395	0.10675	0.10471	0.00566	0.09046	0.09207	0.00498	0.09982
9	24	7	24	-	7	31	0.08391	0.00442	0.06721	0.06800	0.00358	0.07392	0.07340	0.00387	0.10755	0.10595	0.00558	0.08983	0.09109	0.00480	0.10023
10	25	6	25	-	6	31	0.08374	0.00430	0.06679	0.06739	0.00346	0.07420	0.07381	0.00379	0.10839	0.10719	0.00550	0.08916	0.09011	0.00462	0.10066
11	26	5	26	-	5	31	0.08356	0.00417	0.06635	0.06677	0.00333	0.07449	0.07421	0.00371	0.10929	0.10843	0.00541	0.08845	0.08913	0.00445	0.10112
12	27	4	27	-	4	31	0.08339	0.00405	0.06588	0.06616	0.00321	0.07480	0.07461	0.00362	0.11023	0.10967	0.00532	0.08770	0.08815	0.00428	0.10160
13																					
14																					
15	30	1	30	-	1	31	0.08287	0.00368	0.06430	0.06432	0.00285	0.07584	0.07583	0.00337	0.11342	0.11338	0.00503	0.08518	0.08521	0.00378	0.10323
16	31	-	31	-	-	31	0.08270	0.00356	0.06371	0.06371	0.00274	0.07623	0.07623	0.00328	0.11462	0.11462	0.00493	0.08423	0.08423	0.00362	0.10384
17	1	-	30	1	-	30	0.08209	0.00342	0.06371	0.06411	0.00267	0.07623	0.07747	0.00322	0.11462	0.11364	0.00473	0.08423	0.08486	0.00353	0.10384
18	2	-	29	2	-	29	0.08147	0.00328	0.06371	0.06452	0.00260	0.07623	0.07871	0.00317	0.11462	0.11266	0.00453	0.08423	0.08550	0.00344	0.10384
19	3	-	28	3	-	28	0.08086	0.00314	0.06371	0.06492	0.00252	0.07623	0.07995	0.00310	0.11462	0.11168	0.00434	0.08423	0.08613	0.00334	0.10384
20																					
21																					
22	6	-	25	6	-	25	0.07902	0.00274	0.06371	0.06613	0.00229	0.07623	0.08366	0.00290	0.11462	0.10874	0.00377	0.08423	0.08803	0.00305	0.10384
23	7	-	24	7	-	24	0.07841	0.00261	0.06371	0.06654	0.00221	0.07623	0.08490	0.00283	0.11462	0.10776	0.00359	0.08423	0.08866	0.00295	0.10384
24	8	-	23	8	-	23	0.07780	0.00248	0.06371	0.06694	0.00214	0.07623	0.08614	0.00275	0.11462	0.10678	0.00341	0.08423	0.08929	0.00285	0.10384
25	9	-	22	9	-	22	0.07719	0.00236	0.06371	0.06734	0.00205	0.07623	0.08738	0.00267	0.11462	0.10580	0.00323	0.08423	0.08992	0.00274	0.10384
26	10	-	21	10	-	21	0.07657	0.00223	0.06371	0.06775	0.00197	0.07623	0.08861	0.00258	0.11462	0.10482	0.00305	0.08423	0.09056	0.00264	0.10384
27																					
28																					
29	13	-	18	13	-	18	0.07474	0.00187	0.06371	0.06896	0.00172	0.07623	0.09233	0.00231	0.11462	0.10188	0.00254	0.08423	0.09245	0.00231	0.10384
30	14	-	17	14	-	17	0.07412	0.00175	0.06371	0.06936	0.00164	0.07623	0.09357	0.00221	0.11462	0.10090	0.00238	0.08423	0.09309	0.00219	0.10384
31	15	-	16	15	-	16	0.07351	0.00163	0.06371	0.06977	0.00155	0.07623	0.09481	0.00210	0.11462	0.09992	0.00222	0.08423	0.09372	0.00208	0.10384
Total	23	96	529	88	96	625															
Average		4.17	23.00	3.83	4.17	27.17	0.08108	0.08214	0.06562	0.06781	0.06813	0.07497	0.07928	0.07706	0.11077	0.10570	0.10527	0.08728	0.09074	0.09127	0.10187
Average days				31.00		31.35															
%		13.5%	74.2%	12.3%	13.3%	86.7%	0.08108		0.06624	0.06781		0.07456	0.07928		0.10951	0.10570		0.08828	0.09074		0.10123
1st Estimate Rates:																					
2nd previous month							0.08805			0.08270			0.06371			0.07623			0.11462		
Previous month							0.08270			0.06371			0.07623			0.11462			0.08423		
Current month							0.06371			0.07623			0.11462			0.08423			0.10384		

Alectra - PS Rate Zone: GA Variance Analysis
Class B Non-RPP Non-interval Billing - estimated rates for billed and unbilled

		"Typical" Cycle Billing pattern					**March 2016**			**April 2016**			**May 2016**			**June 2016**			**July 2016**		
		Billed days			Unbilled da		Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled
Day of Month	Read date	2nd last month	last month	this month	last month	this month	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate
1	16	15	16	-	15	31	0.09435	0.00602	0.09466	0.09681	0.00618	0.11106	0.10618	0.00677	0.10963	0.11232	0.00717	0.11244	0.11048	0.00705	0.08966
2	17	14	17	-	14	31	0.09498	0.00593	0.09446	0.09637	0.00601	0.11153	0.10718	0.00669	0.10937	0.11177	0.00698	0.11263	0.11088	0.00692	0.08906
3	18	13	18	-	13	31	0.09562	0.00584	0.09424	0.09593	0.00585	0.11201	0.10818	0.00660	0.10910	0.11122	0.00679	0.11282	0.11128	0.00679	0.08844
4	19	12	19	-	12	31	0.09625	0.00574	0.09402	0.09549	0.00570	0.11252	0.10918	0.00651	0.10882	0.11067	0.00660	0.11303	0.11168	0.00666	0.08779
5	20	11	20	-	11	31	0.09688	0.00564	0.09379	0.09505	0.00554	0.11305	0.11017	0.00642	0.10853	0.11012	0.00641	0.11324	0.11208	0.00653	0.08710
6																					
7																					
8	23	8	23	-	8	31	0.09878	0.00534	0.09301	0.09373	0.00507	0.11481	0.11317	0.00612	0.10756	0.10846	0.00587	0.11395	0.11329	0.00613	0.08484
9	24	7	24	-	7	31	0.09941	0.00524	0.09273	0.09330	0.00492	0.11545	0.11417	0.00602	0.10720	0.10791	0.00569	0.11421	0.11369	0.00599	0.08401
10	25	6	25	-	6	31	0.10004	0.00513	0.09243	0.09286	0.00477	0.11613	0.11516	0.00591	0.10682	0.10736	0.00551	0.11448	0.11409	0.00585	0.08313
11	26	5	26	-	5	31	0.10068	0.00503	0.09211	0.09242	0.00461	0.11685	0.11616	0.00580	0.10643	0.10681	0.00533	0.11477	0.11449	0.00572	0.08220
12	27	4	27	-	4	31	0.10131	0.00492	0.09178	0.09198	0.00446	0.11762	0.11716	0.00569	0.10600	0.10626	0.00516	0.11508	0.11489	0.00558	0.08122
13																					
14																					
15	30	1	30	-	1	31	0.10321	0.00458	0.09065	0.09066	0.00402	0.12018	0.12015	0.00533	0.10458	0.10460	0.00464	0.11611	0.11610	0.00515	0.07791
16	31	-	31	-	-	31	0.10384	0.00446	0.09022	0.09022	0.00388	0.12115	0.12115	0.00521	0.10405	0.10405	0.00447	0.11650	0.11650	0.00501	0.07667
17	1	-	30	1	-	30	0.10340	0.00430	0.09022	0.09122	0.00380	0.12115	0.12060	0.00502	0.10405	0.10445	0.00435	0.11650	0.11522	0.00479	0.07667
18	2	-	29	2	-	29	0.10296	0.00414	0.09022	0.09222	0.00371	0.12115	0.12005	0.00483	0.10405	0.10485	0.00422	0.11650	0.11393	0.00458	0.07667
19	3	-	28	3	-	28	0.10252	0.00398	0.09022	0.09321	0.00362	0.12115	0.11950	0.00464	0.10405	0.10525	0.00409	0.11650	0.11265	0.00437	0.07667
20																					
21																					
22	6	-	25	6	-	25	0.10120	0.00351	0.09022	0.09621	0.00334	0.12115	0.11784	0.00409	0.10405	0.10646	0.00369	0.11650	0.10879	0.00377	0.07667
23	7	-	24	7	-	24	0.10076	0.00335	0.09022	0.09720	0.00324	0.12115	0.11729	0.00390	0.10405	0.10686	0.00356	0.11650	0.10751	0.00358	0.07667
24	8	-	23	8	-	23	0.10033	0.00320	0.09022	0.09820	0.00313	0.12115	0.11674	0.00372	0.10405	0.10726	0.00342	0.11650	0.10622	0.00339	0.07667
25	9	-	22	9	-	22	0.09989	0.00305	0.09022	0.09920	0.00303	0.12115	0.11619	0.00355	0.10405	0.10766	0.00329	0.11650	0.10494	0.00320	0.07667
26	10	-	21	10	-	21	0.09945	0.00290	0.09022	0.10020	0.00292	0.12115	0.11563	0.00337	0.10405	0.10807	0.00315	0.11650	0.10365	0.00302	0.07667
27																					
28																					
29	13	-	18	13	-	18	0.09813	0.00245	0.09022	0.10319	0.00258	0.12115	0.11398	0.00285	0.10405	0.10927	0.00273	0.11650	0.09980	0.00249	0.07667
30	14	-	17	14	-	17	0.09769	0.00230	0.09022	0.10419	0.00246	0.12115	0.11343	0.00267	0.10405	0.10967	0.00259	0.11650	0.09851	0.00232	0.07667
31	15	-	16	15	-	16	0.09725	0.00216	0.09022	0.10519	0.00233	0.12115	0.11288	0.00250	0.10405	0.11007	0.00244	0.11650	0.09723	0.00216	0.07667
Total	23	96	529	88	96	625															
Average		4.17	23.00	3.83	4.17	27.17	0.09952	0.09922	0.09159	0.09587	0.09515	0.11804	0.11487	0.11421	0.10577	0.10789	0.10813	0.11525	0.10991	0.11106	0.08067
Average days				31.00		31.35															
%		13.5%	74.2%	12.3%	13.3%	86.7%	0.09952		0.09203	0.09587		0.11703	0.11487		0.10633	0.10789		0.11484	0.10991		0.08197
1st Estimate Rates:																					
2nd previous month							0.08423			0.10384			0.09022			0.12115			0.10405		
Previous month							0.10384			0.09022			0.12115			0.10405			0.11650		
Current month							0.09022			0.12115			0.10405			0.11650			0.07667		

Alectra - PS Rate Zone: GA Variance Analysis
Class B Non-RPP Non-interval Billing - estimated rates for billed and unbilled

		"Typical" Cycle Billing pattern					**August 2016**			**September 2016**			**October 2016**			**November 2016**			**December 2016**		
		Billed days			Unbilled da		Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled	Billed	CC&B Unbilled	True Unbilled
Day of Month	Read date	2nd last month	last month	this month	last month	this month	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate	Avg Rate	weighted average	Avg Rate
1	16	15	16	-	15	31	0.09594	0.00612	0.08275	0.08133	0.00519	0.07552	0.07790	0.00497	0.08853	0.08433	0.00538	0.11439	0.11037	0.00704	0.11141
2	17	14	17	-	14	31	0.09466	0.00591	0.08288	0.08162	0.00509	0.07529	0.07741	0.00483	0.08892	0.08519	0.00532	0.11477	0.11119	0.00694	0.11116
3	18	13	18	-	13	31	0.09337	0.00570	0.08303	0.08191	0.00500	0.07506	0.07693	0.00469	0.08934	0.08605	0.00525	0.11517	0.11201	0.00684	0.11089
4	19	12	19	-	12	31	0.09209	0.00549	0.08317	0.08220	0.00490	0.07481	0.07644	0.00456	0.08978	0.08690	0.00518	0.11559	0.11284	0.00673	0.11062
5	20	11	20	-	11	31	0.09080	0.00529	0.08333	0.08249	0.00481	0.07455	0.07595	0.00442	0.09023	0.08776	0.00511	0.11603	0.11366	0.00662	0.11033
6																					
7																					
8	23	8	23	-	8	31	0.08695	0.00470	0.08384	0.08336	0.00451	0.07370	0.07449	0.00403	0.09174	0.09034	0.00489	0.11748	0.11613	0.00628	0.10938
9	24	7	24	-	7	31	0.08566	0.00451	0.08403	0.08365	0.00441	0.07338	0.07401	0.00390	0.09230	0.09119	0.00481	0.11801	0.11695	0.00616	0.10903
10	25	6	25	-	6	31	0.08438	0.00433	0.08423	0.08394	0.00431	0.07305	0.07352	0.00377	0.09289	0.09205	0.00472	0.11857	0.11777	0.00604	0.10866
11	26	5	26	-	5	31	0.08309	0.00415	0.08444	0.08424	0.00421	0.07270	0.07303	0.00365	0.09351	0.09291	0.00464	0.11917	0.11860	0.00592	0.10827
12	27	4	27	-	4	31	0.08181	0.00397	0.08466	0.08453	0.00410	0.07232	0.07255	0.00352	0.09416	0.09377	0.00455	0.11979	0.11942	0.00580	0.10786
13																					
14																					
15	30	1	30	-	1	31	0.07795	0.00346	0.08541	0.08540	0.00379	0.07107	0.07109	0.00316	0.09637	0.09634	0.00428	0.12191	0.12189	0.00541	0.10646
16	31	-	31	-	-	31	0.07667	0.00330	0.08569	0.08569	0.00368	0.07060	0.07060	0.00304	0.09720	0.09720	0.00418	0.12271	0.12271	0.00528	0.10594
17	1	-	30	1	-	30	0.07696	0.00320	0.08569	0.08520	0.00355	0.07060	0.07146	0.00297	0.09720	0.09802	0.00408	0.12271	0.12217	0.00508	0.10594
18	2	-	29	2	-	29	0.07725	0.00311	0.08569	0.08472	0.00341	0.07060	0.07232	0.00291	0.09720	0.09885	0.00398	0.12271	0.12163	0.00489	0.10594
19	3	-	28	3	-	28	0.07754	0.00301	0.08569	0.08423	0.00327	0.07060	0.07317	0.00284	0.09720	0.09967	0.00387	0.12271	0.12109	0.00470	0.10594
20																					
21																					
22	6	-	25	6	-	25	0.07842	0.00272	0.08569	0.08277	0.00287	0.07060	0.07575	0.00263	0.09720	0.10214	0.00354	0.12271	0.11946	0.00414	0.10594
23	7	-	24	7	-	24	0.07871	0.00262	0.08569	0.08228	0.00274	0.07060	0.07661	0.00255	0.09720	0.10296	0.00343	0.12271	0.11892	0.00396	0.10594
24	8	-	23	8	-	23	0.07900	0.00252	0.08569	0.08180	0.00261	0.07060	0.07746	0.00247	0.09720	0.10378	0.00331	0.12271	0.11838	0.00378	0.10594
25	9	-	22	9	-	22	0.07929	0.00242	0.08569	0.08131	0.00248	0.07060	0.07832	0.00239	0.09720	0.10461	0.00319	0.12271	0.11784	0.00360	0.10594
26	10	-	21	10	-	21	0.07958	0.00232	0.08569	0.08082	0.00235	0.07060	0.07918	0.00231	0.09720	0.10543	0.00307	0.12271	0.11730	0.00342	0.10594
27																					
28																					
29	13	-	18	13	-	18	0.08045	0.00201	0.08569	0.07936	0.00198	0.07060	0.08175	0.00204	0.09720	0.10790	0.00269	0.12271	0.11568	0.00289	0.10594
30	14	-	17	14	-	17	0.08074	0.00190	0.08569	0.07888	0.00186	0.07060	0.08261	0.00195	0.09720	0.10872	0.00256	0.12271	0.11514	0.00271	0.10594
31	15	-	16	15	-	16	0.08103	0.00180	0.08569	0.07839	0.00174	0.07060	0.08347	0.00185	0.09720	0.10954	0.00243	0.12271	0.11460	0.00254	0.10594
Total	23	96	529	88	96	625															
Average		4.17	23.00	3.83	4.17	27.17	0.08315	0.08456	0.08478	0.08261	0.08286	0.07212	0.07591	0.07545	0.09453	0.09677	0.09446	0.12015	0.11721	0.11677	0.10762
Average days				31.00		31.35															
%		13.5%	74.2%	12.3%	13.3%	86.7%	0.08315		0.08449	0.08261		0.07261	0.07591		0.09366	0.09677		0.11931	0.11721		0.10817
1st Estimate Rates:																					
2nd previous month							0.11650			0.07667			0.08569			0.07060			0.09720		
Previous month							0.07667			0.08569			0.07060			0.09720			0.12271		
Current month							0.08569			0.07060			0.09720			0.12271			0.10594		

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PowerStream service area specific

Model Specifications

Utility	Alectra - PowerStream
Applying for Rates Effective	January 1, 2018
Line Loss Factor	1.0369

Rate Classes (select from the List)

RES	RESIDENTIAL SERVICE CLASSIFICATION
GSL	GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION
GS500	GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION
LU	LARGE USE SERVICE CLASSIFICATION
USL	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION
SB	STANDBY POWER SERVICE CLASSIFICATION
SEN	SENTINEL LIGHTING SERVICE CLASSIFICATION
SL	STREET LIGHTING SERVICE CLASSIFICATION

Have one or more Class A customers	Yes

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Version 1.0

Utility Name	Alectra - PowerStream
Assigned EB Number	
Name of Contact and Title	
Phone Number	
Email Address	
We are applying for rates effective	Monday, January 01, 2018
Rate-Setting Method	**Price Cap IR**
Please indicate in which Rate Year the Group 1 accounts were last cleared[1]	**2016**
Please indicate the last Cost of Service Re-Basing Year	**2017**

Notes

Pale gray cells represent input cells.

Pale blue cells represent drop-down lists.

White cells contain fixed values, automatically generated values or formulae.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2017
Implementation Date January 1, 2017

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2015-0003

RESIDENTIAL SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	18.51
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance) – effective until September 30, 2017	$	(0.04)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance) – effective until September 30, 2017	$	(0.10)
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	$	0.06
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$	0.12
Rate Rider for Smart Metering Entity Charge – effective until October 31, 2018	$	0.79
Distribution Volumetric Rate	$/kWh	0.0130
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for Non-RPP Customers	$/kWh	0.0012
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Retail Transmission Rate – Network Service Rate	$/kWh	0.0082
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0038

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	28.74
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance) – effective until September 30, 2017	$	(0.17)
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	$	0.21
Rate Rider for Smart Metering Entity Charge – effective until October 31, 2018	$	0.79
Distribution Volumetric Rate	$/kWh	0.0183
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance) – effective until September 30, 2017	$/kWh	0.0001
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for Non-RPP Customers	$/kWh	0.0012
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0002
Retail Transmission Rate – Network Service Rate	$/kWh	0.0073
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0033

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	140.97
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance) – effective until September 30, 2017	$	(4.81)
Distribution Volumetric Rate	$/kW	4.2037
Low Voltage Service Rate	$/kW	0.1589
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance) – effective until September 30, 2017	$/kW	(0.0196)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for Non-RPP Customers	$/kW	0.4319
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1169
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1224)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0620
Retail Transmission Rate – Network Service Rate	$/kW	2.9268
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.2618
Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	3.0681
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	$/kW	1.3652

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

LARGE USE SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	6,073.68
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance) – effective until September 30, 2017	$	(199.61)
Distribution Volumetric Rate	$/kW	2.2421
Low Voltage Service Rate	$/kW	0.1630
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance) – effective until September 30, 2017	$/kW	(0.0356)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1584
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1659)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0840
Retail Transmission Rate – Network Service Rate	$/kW	3.5361
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3178

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

STANDBY POWER SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES – Delivery Component - APPROVED ON AN INTERIM BASIS

Standby Charge – for a month where standby power is not provided. The charge is applied to the contracted amount (e.g. nameplate rating of generation facility).	$/kW	2.8081

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	$	8.60
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance) – effective until September 30, 2017	$	(0.02)
Distribution Volumetric Rate	$/kWh	0.0195
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance) – effective until September 30, 2017	$/kWh	(0.0002)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for Non-RPP Customers	$/kWh	0.0012
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0002
Retail Transmission Rate – Network Service Rate	$/kWh	0.0069
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0035

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

SENTINEL LIGHTING SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	$	4.19
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance) – effective until September 30, 2017	$	(0.01)
Distribution Volumetric Rate	$/kW	9.8694
Low Voltage Service Rate	$/kW	0.1170
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance) – effective until September 30, 2017	$/kW	(0.1678)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for Non-RPP Customers	$/kW	0.4470
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1210
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1267)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0641
Retail Transmission Rate – Network Service Rate	$/kW	2.2743
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	0.9336

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

STREET LIGHTING SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	$	1.19
Distribution Volumetric Rate	$/kW	6.3222
Low Voltage Service Rate	$/kW	0.1288
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance) – effective until September 30, 2017	$/kW	(0.1455)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for Non-RPP Customers	$/kW	0.4124
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1116
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1169)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0592
Retail Transmission Rate – Network Service Rate	$/kW	2.9431
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3520

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	$/kWh	0.0036
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0013
Ontario Electricity Support Program Charge (OESP)	$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

MicroFIT SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	5.40

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

		2011										2012				
Account Descriptions	Account Number	Opening Principal Amounts as of Jan 1, 2011	Transactions[2] Debit / (Credit) during 2011	OEB-Approved Disposition during 2011	Principal Adjustments[1] during 2011	Closing Principal Balance as of Dec 31, 2011	Opening Interest Amounts as of Jan 1, 2011	Interest Jan 1 to Dec 31, 2011	OEB-Approved Disposition during 2011	Interest Adjustments[1] during 2011	Closing Interest Amounts as of Dec 31, 2011	Opening Principal Amounts as of Jan 1, 2012	Transactions[2] Debit / (Credit) during 2012	OEB-Approved Disposition during 2012	Principal Adjustments[1] during 2012	Closing Principal Balance as of Dec 31, 2012
Group 1 Accounts																
LV Variance Account	1550	0	(680,807)			(680,807)	0	(25,273)			(25,273)	(680,807)	477,919	(680,807)		477,919
Smart Metering Entity Charge Variance Account	1551	0				0	0				0	0				0
RSVA - Wholesale Market Service Charge	1580	0	(22,160,709)			(22,160,709)	0	(453,592)			(453,592)	(22,160,709)	(10,646,313)	(22,160,709)		(10,646,313)
Variance WMS – Sub-account CBR Class A	1580	0				0	0				0	0				0
Variance WMS – Sub-account CBR Class B	1580	0				0	0				0	0				0
RSVA - Retail Transmission Network Charge	1584	0	2,673,296			2,673,296	0	(116,407)			(116,407)	2,673,296	1,005,953	2,673,296		1,005,953
RSVA - Retail Transmission Connection Charge	1586	0	(3,227,883)			(3,227,883)	0	(156,955)			(156,955)	(3,227,883)	(588,231)	(3,227,884)		(588,230)
RSVA - Power	1588	0	2,102,302		(13)	2,102,289	0	400,055			400,055	2,102,289	877,101	2,102,302		877,088
RSVA - Global Adjustment	1589	0	17,526,364			17,526,364	0	668,802			668,802	17,526,364	(1,664,568)	17,526,364		(1,664,568)
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	0	(1,042)			(1,042)	0	3,222			3,222	(1,042)	(15)	(1,042)		(15)
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595	0				0	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	0	2,233,467			2,233,467	0	(1,943,690)			(1,943,690)	2,233,467	(680,508)			1,552,959
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	0				0	0				0	0		8,245,690		(8,245,690)
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595	0				0	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	0				0	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595	0				0	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4] *Not to be disposed of unless rate rider has expired and balance has been audited*	1595	0				0	0				0	0				0
RSVA - Global Adjustment	**1589**	0	17,526,364	0	0	17,526,364	0	668,802	0	0	668,802	17,526,364	(1,664,568)	17,526,364	0	(1,664,568)
Total Group 1 Balance excluding Account 1589 - Global Adjustment		0	(19,061,376)	0	(13)	(19,061,389)	0	(2,292,640)	0	0	(2,292,640)	(19,061,389)	(9,554,094)	(13,049,154)	0	(15,566,329)
Total Group 1 Balance		0	(1,535,012)	0	(13)	(1,535,025)	0	(1,623,838)	0	0	(1,623,838)	(1,535,025)	(11,218,662)	4,477,210	0	(17,230,897)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**					0					0	0	716,910			716,910
Total including Account 1568		0	(1,535,012)	0	(13)	(1,535,025)	0	(1,623,838)	0	0	(1,623,838)	(1,535,025)	(10,501,752)	4,477,210	0	(16,513,987)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FO

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

							2013										
Account Descriptions	Account Number	Opening Interest Amounts as of Jan 1, 2012	Interest Jan 1 to Dec 31, 2012	OEB-Approved Disposition during 2012	Interest Adjustments[1] during 2012	Closing Interest Amounts as of Dec 31, 2012	Opening Principal Amounts as of Jan 1, 2013	Transactions[2] Debit / (Credit) during 2013	OEB-Approved Disposition during 2013	Principal Adjustments[1] during 2013	Closing Principal Balance as of Dec 31, 2013	Opening Interest Amounts as of Jan 1, 2013	Interest Jan 1 to Dec 31, 2013	OEB-Approved Disposition during 2013	Interest Adjustments[1] during 2013	Closing Interest Amounts as of Dec 31, 2013	Opening Principal Amounts as of Jan 1, 2014
Group 1 Accounts																	
LV Variance Account	1550	(25,273)	(7,005)	(35,310)		3,032	477,919	(112,182)			365,737	3,032	6,431			9,463	365,737
Smart Metering Entity Charge Variance Account	1551	0				0	0	185,108			185,108	0	1,632			1,632	185,108
RSVA - Wholesale Market Service Charge	1580	(453,592)	(411,074)	(780,247)		(84,419)	(10,646,313)	(5,065,917)			(15,712,230)	(84,419)	(200,434)			(284,853)	(15,712,230)
Variance WMS – Sub-account CBR Class A	1580	0				0	0				0	0				0	0
Variance WMS – Sub-account CBR Class B	1580	0				0	0				0	0				0	0
RSVA - Retail Transmission Network Charge	1584	(116,407)	62,777	(77,003)		23,373	1,005,953	2,616,584			3,622,537	23,373	30,713			54,086	3,622,537
RSVA - Retail Transmission Connection Charge	1586	(156,955)	(52,540)	(204,532)		(4,963)	(588,230)	601,094			12,864	(4,963)	(5,847)			(10,810)	12,864
RSVA - Power	1588	400,055	8,778	431,043		(22,210)	877,088	1,357,196			2,234,284	(22,210)	51,968			29,758	2,234,284
RSVA - Global Adjustment	1589	668,802	259,570	927,145		1,227	(1,664,568)	(3,374,332)			(5,038,900)	1,227	22,026			23,253	(5,038,900)
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	3,222		3,208		14	(15)				(15)	14				14	(15)
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595	0				0	0				0	0				0	0
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	(1,943,690)	144,693			(1,798,997)	1,552,959	1,575,260			3,128,219	(1,798,997)	8,790			(1,790,207)	3,128,219
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	0		86,845		(86,845)	(8,245,690)	2,661,661			(5,584,029)	(86,845)	(105,234)			(192,079)	(5,584,029)
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595	0				0	0				0	0				0	0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	0				0	0				0	0				0	0
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595	0				0	0				0	0				0	0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4]																	
Not to be disposed of unless rate rider has expired and balance has been audited	1595	0				0	0				0	0				0	0
RSVA - Global Adjustment	**1589**	668,802	259,570	927,145	0	1,227	(1,664,568)	(3,374,332)	0	0	(5,038,900)	1,227	22,026	0	0	23,253	(5,038,900)
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(2,292,640)	(254,371)	(575,996)	0	(1,971,015)	(15,566,329)	3,818,804	0	0	(11,747,526)	(1,971,015)	(211,981)	0	0	(2,182,996)	(11,747,526)
Total Group 1 Balance		(1,623,838)	5,199	351,149	0	(1,969,788)	(17,230,897)	444,472	0	0	(16,786,426)	(1,969,788)	(189,955)	0	0	(2,159,743)	(16,786,426)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**	0				0	716,910	(513,961)			202,949	0	13,029			13,029	202,949
Total including Account 1568		(1,623,838)	5,199	351,149	0	(1,969,788)	(16,513,987)	(69,489)	0	0	(16,583,477)	(1,969,788)	(176,926)	0	0	(2,146,714)	(16,583,477)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

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Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FO

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

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Please refer to the footnotes for further instructions.

		2014									2015					
Account Descriptions	Account Number	Transactions[2] Debit / (Credit) during 2014	OEB-Approved Disposition during 2014	Principal Adjustments[1] during 2014	Closing Principal Balance as of Dec 31, 2014	Opening Interest Amounts as of Jan 1, 2014	Interest Jan 1 to Dec 31. 2014	OEB-Approved Disposition during 2014	Interest Adjustments[1] during 2014	Closing Interest Amounts as of Dec 31, 2014	Opening Principal Amounts as of Jan 1, 2015	Transactions[2] Debit / (Credit) during 2015	OEB-Approved Disposition during 2015	Principal Adjustments[1] during 2015	Closing Principal Balance as of Dec 31, 15	Opening Interest Amounts as of Jan 1, 15
Group 1 Accounts																
LV Variance Account	1550	(133,409)	477,919		(245,591)	9,463	(1,339)	10,057		(1,933)	(245,591)	1,878,889			1,633,298	(1,933)
Smart Metering Entity Charge Variance Account	1551	(93,458)			91,650	1,632	2,228			3,860	91,650	(127,715)			(36,065)	3,860
RSVA - Wholesale Market Service Charge	1580	(877,534)	(10,646,313)		(5,943,451)	(284,853)	(58,992)	(240,919)		(102,926)	(5,943,451)	(18,323,013)			(24,266,464)	(102,926)
Variance WMS – Sub-account CBR Class A	1580				0	0				0	0	52,344			52,344	0
Variance WMS – Sub-account CBR Class B	1580				0	0				0	0	2,283,692			2,283,692	0
RSVA - Retail Transmission Network Charge	1584	1,288,689	1,005,953		3,905,273	54,086	47,481	38,161		63,406	3,905,273	(2,787,980)			1,117,293	63,406
RSVA - Retail Transmission Connection Charge	1586	852,228	(588,230)		1,453,322	(10,810)	10,423	(13,609)		13,222	1,453,322	990,194			2,443,516	13,222
RSVA - Power	1588	(794,425)	877,088		562,771	29,758	27,275	(9,317)		66,350	562,771	(317,281)			245,490	66,350
RSVA - Global Adjustment	1589	13,553,905	(1,664,568)		10,179,573	23,253	46,383	(23,242)		92,878	10,179,573	5,736,837			15,916,410	92,878
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595	2	(15)		2	14		14		0	2				2	0
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595				0	0				0	0				0	0
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	124			3,128,343	(1,790,207)	56,768			(1,733,439)	3,128,343	10,844		(3,273,851)	(134,664)	(1,733,439)
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	4,519,006			(1,065,024)	(192,079)	(22,367)			(214,446)	(1,065,024)	237,164		981,651	153,791	(214,446)
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595				0	0				0	0				0	0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	4,751,092	10,538,166		(5,787,074)	0	(90,778)	277,339		(368,117)	(5,787,074)	5,684,237		173,316	70,479	(368,117)
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595				0	0				0	0				0	0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4]																
Not to be disposed of unless rate rider has expired and balance has been audited	1595				0	0				0	0				0	0
RSVA - Global Adjustment	**1589**	13,553,905	(1,664,568)	0	10,179,573	23,253	46,383	(23,242)	0	92,878	10,179,573	5,736,837	0	0	15,916,410	92,878
Total Group 1 Balance excluding Account 1589 - Global Adjustment		9,512,314	1,664,568	0	(3,899,780)	(2,182,996)	(29,301)	61,726	0	(2,274,023)	(3,899,780)	(10,418,625)	0	(2,118,884)	(16,437,289)	(2,274,023)
Total Group 1 Balance		23,066,219	0	0	6,279,793	(2,159,743)	17,082	38,484	0	(2,181,145)	6,279,793	(4,681,788)	0	(2,118,884)	(520,879)	(2,181,145)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**	73,996			276,945	13,029	3,378			16,407	276,945	296,819			573,764	16,407
Total including Account 1568		23,140,215	0	0	6,556,738	(2,146,714)	20,460	38,484	0	(2,164,738)	6,556,738	(4,384,969)	0	(2,118,884)	52,885	(2,164,738)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FO

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

						2016									
Account Descriptions	Account Number	Interest Jan 1 to Dec 31, 15	OEB-Approved Disposition during 2015	Interest Adjustments[1] during 2015	Closing Interest Amounts as of Dec 31, 15	Opening Principal Amounts as of Jan 1, 2016	Transactions[2] Debit / (Credit) during 2016	OEB-Approved Disposition during 2016	Principal Adjustments[1] during 2016	Closing Principal Balance as of Dec 31, 16	Opening Interest Amounts as of Jan 1, 16	Interest Jan 1 to Dec 31, 16	OEB-Approved Disposition during 2016	Interest Adjustments[1] during 2016	Closing Interest Amounts as of Dec 31, 16
Group 1 Accounts															
LV Variance Account	1550	2,930			997	1,633,298	2,598,645	(245,591)		4,477,534	997	31,733	(6,702)		39,432
Smart Metering Entity Charge Variance Account	1551	653			4,513	(36,065)	(125,095)	91,650		(252,810)	4,513	(1,054)	5,640		(2,181)
RSVA - Wholesale Market Service Charge	1580	(122,115)			(225,041)	(24,266,464)	(7,562,592)	(5,943,451)		(25,885,605)	(225,041)	(299,766)	(218,327)		(306,480)
Variance WMS – Sub-account CBR Class A	1580	153			153	52,344	(52,344)			0	153	(153)			(0)
Variance WMS – Sub-account CBR Class B	1580	7,620			7,620	2,283,692	(336,421)			1,947,271	7,620	22,213			29,833
RSVA - Retail Transmission Network Charge	1584	34,775			98,181	1,117,293	(3,707,690)	3,905,273		(6,495,670)	98,181	(12,831)	139,232		(53,882)
RSVA - Retail Transmission Connection Charge	1586	22,520			35,742	2,443,516	1,633,313	1,453,320		2,623,509	35,742	32,517	41,440		26,819
RSVA - Power	1588	18,480			84,830	245,490	2,176,561	562,770	811,309	2,670,591	84,830	13,235	77,277		20,788
RSVA - Global Adjustment	1589	141,760			234,638	15,916,410	(9,817,313)	10,179,574	4,970,749	890,272	234,638	157,113	290,529		101,223
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595				0	2				2	0			(21,764)	(21,764)
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595				0	0			7,318	7,318	0			153	153
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595	(23,253)		1,717,032	(39,660)	(134,664)			135,000	336	(39,660)	(1,485)		41,188	43
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595	3,120		368,236	156,910	153,791	991		(142,316)	12,466	156,910	1,696		(5,332)	153,273
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595				0	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595	(18,488)		33,613	(352,992)	70,479	8,671		(79,150)	(0)	(352,992)	(2,385)		64,903	(290,474)
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595				0	0				0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4]															
Not to be disposed of unless rate rider has expired and balance has been audited	1595				0	0				0	0				0
RSVA - Global Adjustment	**1589**	141,760	0	0	234,638	15,916,410	(9,817,313)	10,179,574	4,970,749	890,272	234,638	157,113	290,529	0	101,223
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(73,605)	0	2,118,881	(228,747)	(16,437,289)	(5,365,960)	(176,029)	732,161	(20,895,059)	(228,747)	(216,280)	38,560	79,148	(404,439)
Total Group 1 Balance		68,155	0	2,118,881	5,891	(520,879)	(15,183,273)	10,003,545	5,702,910	(20,004,787)	5,891	(59,166)	329,089	79,148	(303,216)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**	2,310			18,717	573,764	1,581,007			2,154,771	18,717	9,806			28,523
Total including Account 1568		70,465	0	2,118,881	24,608	52,885	(13,602,266)	10,003,545	5,702,910	(17,850,016)	24,608	(49,360)	329,089	79,148	(274,693)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FO

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Column CE shoudl match the latest 2.1.7 RRR filing.

When inputting balances in the continuity schedule, Account 1580 RSVA - Wholesale Market Service Charge is to exclude any amounts relating to CBR. The CBR amounts are to be entered separately in the Class A and Class B 1580 sub-accounts. Only Class B amounts are to be disposed. Class A amounts are not to be disposed.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your general ledger for which you received approval. For example, if in the 2016 EDR process (CoS or IRM) you received approval for the December 31, 2014 balances, the starting point for your entries below should be the 2013 year. This will allow for the correct starting point for the 2014 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

		2017				Projected Interest on Dec-31-16 Balances			2.1.7 RRR	
Account Descriptions	Account Number	Principal Disposition during 2017 - instructed by OEB	Interest Disposition during 2017 - instructed by OEB	Closing Principal Balances as of Dec 31, 2017 Adjusted for Dispositions during 2017	Closing Interest Balances as of Dec 31, 16 Adjusted for Disposition in 2017	Projected Interest from Jan 1, 2017 to December 31, 2017 on Dec 31 -16 balance adjusted for disposition during 2017 [3]	Total Interest	Total Claim	As of Dec 31-16	Variance RRR vs. 2016 Balance *(Principal + Interest)*
Group 1 Accounts										
LV Variance Account	1550			4,477,534	39,432	49,253	88,685	4,566,219	4,516,968	1
Smart Metering Entity Charge Variance Account	1551			(252,810)	(2,181)	(2,781)	(4,962)	(257,773)	(254,992)	(0)
RSVA - Wholesale Market Service Charge	1580			(25,885,605)	(306,480)	(284,742)	(591,222)	(26,476,826)	(24,214,981)	1,977,104
Variance WMS – Sub-account CBR Class A	1580			0	(0)	0	0	0	0	(0)
Variance WMS – Sub-account CBR Class B	1580			1,947,271	29,833	21,420	51,253	1,998,524	1,977,104	0
RSVA - Retail Transmission Network Charge	1584			(6,495,670)	(53,882)	(71,452)	(125,334)	(6,621,004)	(6,549,552)	0
RSVA - Retail Transmission Connection Charge	1586			2,623,509	26,819	28,859	55,678	2,679,187	2,650,329	0
RSVA - Power	1588	0		2,670,591	20,788	29,376	50,164	2,720,755	1,880,069	(811,309)
RSVA - Global Adjustment	1589			890,272	101,223	9,793	111,016	1,001,287	(3,979,255)	(4,970,749)
Disposition and Recovery/Refund of Regulatory Balances (2009)[4]	1595			2	(21,764)	0	(21,764)	(21,762)	(21,762)	0
Disposition and Recovery/Refund of Regulatory Balances (2010)[4]	1595			7,318	153	80	233	7,551	7,471	0
Disposition and Recovery/Refund of Regulatory Balances (2011)[4]	1595			336	43	4	47	382	379	0
Disposition and Recovery/Refund of Regulatory Balances (2012)[4]	1595			12,466	153,273	137	153,410	165,877	165,739	(0)
Disposition and Recovery/Refund of Regulatory Balances (2013)[4]	1595			0	0	0	0	0	0	0
Disposition and Recovery/Refund of Regulatory Balances (2014)[4]	1595			(0)	(290,474)	0	(290,474)	(290,474)	(290,474)	(0)
Disposition and Recovery/Refund of Regulatory Balances (2015)[4]	1595			0	0	0	0	0		0
Disposition and Recovery/Refund of Regulatory Balances (2016)[4] *Not to be disposed of unless rate rider has expired and balance has been audited*	1595			0	0		0	0	0	0
RSVA - Global Adjustment	**1589**	0	0	890,272	101,223	9,793	111,016	1,001,287	(3,979,255)	(4,970,749)
Total Group 1 Balance excluding Account 1589 - Global Adjustment		0	0	(20,895,059)	(404,439)	(229,846)	(634,285)	(21,529,343)	(22,110,806)	(811,308)
Total Group 1 Balance		0	0	(20,004,787)	(303,216)	(220,053)	(523,269)	(20,528,056)	(26,090,060)	(5,782,057)
LRAM Variance Account (only input amounts if applying for disposition of this account)	**1568**			2,154,771	28,523	23,702	52,225	2,206,996	2,183,294	(0)
Total including Account 1568		0	0	(17,850,016)	(274,693)	(196,350)	(471,044)	(18,321,059)	(23,906,767)	(5,782,058)

For all OEB-Approved dispositions, please ensure that the disposition amount has the same sign (e.g: debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related OEB decision.

($25,562,407)

($5,034,351.26)

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously OEB-Approved disposed balances, please provide amounts for adjustments and include supporting documentations.

For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record the transactions during the year.

If the LDC's rate year begins on January 1, 2017, the projected interest is recorded from January 1, 2016 to December 31, 2016 on the December 31, 2015 balances adjusted for the disposed balances approved by the OEB in the 2016 rate decision. If the LDC's rate year begins on May 1, 2017, the projected interest is recorded from January 1, 2016 to April 30, 2017 on the December 31, 2015 balances adjusted for the disposed interest balances approved by the OEB in the 2016 rate decision.

Include Account 1595 as part of Group 1 accounts (lines 30-36) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Information from the most recent RRR (2016 for 2018 IRM)

Approved Recoveries (class allocation %)

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*	1595 Recovery Proportion (2009) [1]	1595 Recovery Proportion (2010) [1]	1595 Recovery Proportion (2011) [1]	1595 Recovery Proportion (2012) [1]	1595 Recovery Proportion (2013) [1]	1595 Recovery Proportion (2014) [1]	1595 Recovery Proportion (2015) [1]	1595 Recovery Proportion (2016) [1]	1568 LRAM Variance Account Class Allocation ($ amounts)	Number of Customers for Residential and GS<50 classes [3]
RESIDENTIAL SERVICE CLASSIFICATION	kWh	2,770,663,827	0	119,404,036	0			2,770,663,827	0	9.77%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%	$4,029	325,741
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	1,035,123,196	0	180,696,305	0			1,035,123,196	0	5.40%	5.4%	5.4%	5.4%	5.4%	5.4%	5.4%	5.4%	$943,238	32,395
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	4,608,279,659	12,138,626	4,190,177,249	10,153,980	30,373,390	57,038	4,577,906,269	12,081,588	83.68%	83.7%	83.7%	83.7%	83.7%	83.7%	83.7%	83.7%	$961,697	
LARGE USE SERVICE CLASSIFICATION	kW	67,734,070	149,959	67,734,070	149,959			67,734,070	149,959	0.18%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	-$10,784	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	13,630,753	0	132,605	0			13,630,753	0	0.04%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-$6,779	
STANDBY POWER SERVICE CLASSIFICATION	kW	0	0	0	0			0	0	0.00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	$0	
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	314,901	858	15,920	820			314,901	858	0.00%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-$329	
STREET LIGHTING SERVICE CLASSIFICATION	kW	52,846,039	148,247	52,181,421	146,077			52,846,039	148,247	0.93%	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	$86,332	
0								0	0										
								0	0										
								0	0										
								0	0										
	Total	8,548,592,446	12,437,690	4,610,341,606	10,450,836	30,373,390	57,038	8,518,219,056	12,380,652	100%	100%	100%	100%	100%	100%	100%	100%	$1,977,404	358,136

Threshold Test

Total Claim (including Account 1568)	($18,321,059)
Total Claim for Threshold Test (All Group 1 Accounts)	($20,528,056)
Threshold Test (Total claim per kWh) [2]	**($0.0024)**
Exceeds Threshold?	**Yes**
ELECT TO DISPOSE of the Group 1 Account Balances?	**Yes**

1568 Account Balance from Continuity Schedule	**$2,206,996**
Total Balance of Account 1568 in Column T DOES NOT MATCH the amount entered on the Continuity Schedule	

As per Section 3.2.5 of the 2017 Filing Requirements for Electricity Distribution Rate Applications, an applicant may elect to dispose of the Group 1 account balances below the threshold.

[1] Residual Account balance to be allocated to rate classes in proportion to the recovery share as established when rate riders were implemented.

[2] The Threshold Test does not include the amount in 1568.

[3] The proportion of customers for the Residential and GS<50 Classes will be used to allocate Account 1551.

Information from the 2015 RRR

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*
RESIDENTIAL SERVICE CLASSIFICATION	kWh	2,818,851,613	0	146,512,582	0			2,818,851,613	0
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	1,066,578,598	0	185,625,558	0			1,066,578,598	0
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	4,569,333,614	11,700,818	4,109,131,617	11,700,818	30,566,606	54,713	4,538,767,008	11,646,105
LARGE USE SERVICE CLASSIFICATION	kW	78,452,926	167,282	78,452,926	167,282			78,452,926	167,282
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	13,944,145	0	157,113	0			13,944,145	0
STANDBY POWER SERVICE CLASSIFICATION	kW	0	0	0	0			0	0
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	326,210	865	26,048	865			326,210	865
STREET LIGHTING SERVICE CLASSIFICATION	kW	58,275,738	160,024	57,608,680	160,024			58,275,738	160,024
0								0	0
								0	0
								0	0
								0	0
	Total	8,605,762,844	12,028,989	4,577,514,525	12,028,989	30,566,606	54,713	8,575,196,237	11,974,276

GS>50 Interval and non-Interval - 2016

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*
GS>50 Interval Accounts	kWh	2,318,951,031	5,647,087	2,184,532,398	4,698,014	30,373,390	57,038	2,288,577,641	5,590,049
GS>50 The rest	kWh	2,289,505,114	6,491,539	2,005,644,851	5,455,965			2,289,505,114	6,491,539
GS>50 Total	kW	4,608,456,145	12,138,626	4,190,177,249	10,153,980	30,373,390	57,038	4,578,082,755	12,081,588
control check to RRR		176,486	(0)	(0)	0	0	0	176,486	(0)

GS>50 Interval and non-Interval - 2016 CIR (based on Proposed 2017 Load Forecast - 2016 CIR EDVAR Model)

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers	Metered kW for Non-RPP Customers	Metered kWh for Wholesale Market Participants (WMP)	Metered kW for Wholesale Market Participants (WMP)	Total Metered kWh less WMP consumption *(if applicable)*	Total Metered kW less WMP consumption *(if applicable)*
GS>50 Interval Accounts (Allocated)	kWh	2,303,024,968	5,684,975	2,186,860,561	5,181,841	23,552,245	62,884	2,279,472,723	5,622,091
GS>50 The rest (Allocated)	kWh	2,273,781,280	6,535,092	2,007,782,365	6,017,850	0	0	2,273,781,280	6,535,092
GS>50 Total	kW	4,576,806,248	12,220,067	4,194,642,926	11,199,691	23,552,245	62,884	4,553,254,003	12,157,183
2017 EDVAR Model		**4,576,806,248**	**12,220,067**	**4,194,642,926**	**11,199,691**	**23,552,245**	**62,884**		

INCENTIVE REGULATION MODEL FOR 2018 FILERS

No input required. This workshseet allocates the deferral/variance account balances (Group 1 and 1568) to the appropriate classes as per EDDVAR dated July 31, 2009

Allocation of Group 1 Accounts (including Account 1568)

Rate Class	% of Total kWh	% of Total non-RPP kWh	% of Customer Numbers **	% of Total kWh adjusted for WMP	1550	1551	1580 (allocated based on Total less WMP)	1584	1586	1588 (allocated based on Total less WMP)	1595_(2009)	1595_(2010)	1595_(2011)	1595_(2012)	1595_(2014)	1568
RESIDENTIAL SERVICE CLASSIFICATION	32.4%	2.6%	91.0%	32.5%	1,479,946	(234,456)	(8,611,939)	(2,145,918)	868,345	884,962	(2,126)	738	37	16,206	(28,379)	4,029
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	12.1%	3.9%	9.0%	12.2%	552,910	(23,317)	(3,217,430)	(801,717)	324,415	330,623	(1,175)	408	21	8,957	(15,686)	943,238
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	53.9%	90.9%	0.0%	53.7%	2,461,506	0	(14,229,316)	(3,569,177)	1,444,266	1,462,203	(18,210)	6,319	320	138,805	(243,068)	961,697
LARGE USE SERVICE CLASSIFICATION	0.8%	1.5%	0.0%	0.8%	36,180	0	(210,535)	(52,461)	21,228	21,635	(39)	14	1	299	(523)	(10,784)
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	0.2%	0.0%	0.0%	0.2%	7,281	0	(42,368)	(10,557)	4,272	4,354	(9)	3	0	66	(116)	(6,779)
STANDBY POWER SERVICE CLASSIFICATION	0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0	0	0	0	0
SENTINEL LIGHTING SERVICE CLASSIFICATION	0.0%	0.0%	0.0%	0.0%	168	0	(979)	(244)	99	101	0	0	0	0	0	(329)
STREET LIGHTING SERVICE CLASSIFICATION	0.6%	1.1%	0.0%	0.6%	28,228	0	(164,259)	(40,930)	16,562	16,879	(202)	70	4	1,543	(2,701)	86,332
											0	0	0	0	0	0
	100.0%	100.0%	100.0%	100.0%	**4,566,219**	**(257,773)**	**(26,476,826)**	**(6,621,004)**	**2,679,187**	**2,720,755**	**(21,762)**	**7,551**	**382**	**165,877**	**(290,474)**	**1,977,404**

*** Used to allocate Account 1551 as this account records the variances arising from the Smart Metering Entity Charges to Residential and GS<50 customers.*

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this tab is to calculate the GA rate riders for all current Class B customers of the distributor.
Identify the total billed consumption for former Class B customers prior to becoming Class A customers in Column G.
Identify the total interval metered accounts billed consumption, if billed on Actual GA rate.
Effective January 2017, the billing determinant and all rate riders for the disposition of GA balances will be calculated on an energy basis (kWhs) regardless of the billing determinant used for distribution rates for the particular class (see Chapter 3, Filing Requirements, section 3.2.5.2)

	Total Metered Non-RPP consumption minus WMP	Total Metered Class A Consumption in 2016 (partial and/or full year Class A customers)*	Total Metered Consumption for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan. 1 - June 30, 2016)	Total Metered Consumption for New Class B customer(s) in the period after becoming Class B (i.e. Jul 1 - Dec 31, 2016)	Total Interval-metered Consumption in 2016 for non-Class A customers	Metered Consumption for Current Class B non-Interval Customers (Non-RPP consumption LESS WMP, Class A and new Class A's former Class B consumption if applicable)	% of total kWh	Total GA $ allocated to Current Class B Customers	GA Rate Rider	
	kWh	kWh	kWh	kWh	kWh	kWh				
RESIDENTIAL SERVICE CLASSIFICATION	119,404,036					119,404,036	5.0636%	$50,701	$0.0004	kwh
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	180,696,305					180,696,305	7.6629%	$76,727	$0.0004	kwh
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	4,159,803,859	282,814,387	17,289,923		1,854,054,698	2,005,644,851	85.0543%	$851,638	$0.0004	kwh (non-Intervals ONLY)
LARGE USE SERVICE CLASSIFICATION	67,734,070	64,462,065		3,272,005		0	0.0000%	$0	$0.0000	kwh
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	132,605					132,605	0.0056%	$56	$0.0004	kwh
STANDBY POWER SERVICE CLASSIFICATION	0					0	0.0000%	$0		
SENTINEL LIGHTING SERVICE CLASSIFICATION	15,920					15,920	0.0007%	$7	$0.0004	kwh
STREET LIGHTING SERVICE CLASSIFICATION	52,181,421					52,181,421	2.2129%	$22,157	$0.0004	kwh
	4,579,968,216	**347,276,452**	**17,289,923**	**3,272,005**	**1,854,054,698**	**2,358,075,138**	**100.0%**	**1,001,287**		

from Sheet 6B

*For new Class A customers (who became Class A in 2016), add their consumption only related to July to December period.
All Class A customers are interval-metered. They consumption is included in Column D.
**PowerStream bills Class B non-RPP interval billed customers at the actual monthly GA rate (no GA variance) and non-interval customers at the first estimate rate.

2015 DATA	Total Metered Non-RPP consumption minus WMP	Total Metered Class A Consumption in 2015 (partial and/or full year Class A customers)*	Total Metered Consumption for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan. 1 - June 30, 2015)
	kWh	kWh	kWh
RESIDENTIAL SERVICE CLASSIFICATION	146,512,582		
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	185,625,558		
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	4,078,565,011	144,760,456	107,792,252
LARGE USE SERVICE CLASSIFICATION	78,452,926	78,452,926	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	157,113		
STANDBY POWER SERVICE CLASSIFICATION	0		
SENTINEL LIGHTING SERVICE CLASSIFICATION	26,048		
STREET LIGHTING SERVICE CLASSIFICATION	57,608,680		
	4,546,947,919	**223,213,383**	**107,792,252**

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the GA balance to former Class B non-interval customers who contributed to the current GA balance but are now Class A customers. The tables below calculate specific amounts for each customer who made the change. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed | **2014** | **(e.g. If in the 2017 EDR process, you received approval to dispose the GA variance account balance as of December 31, 2014, please enter 2014 in cell C16.)**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class A (Former Class B non-Interval) customers

		Total	2016	2015
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	8,556,426,301	4,232,691,765	4,323,734,536
New Class A Customer(s)' Former Class B non-Interval Consumption	B	-	-	-
Portion of Consumption of Former Class B non-Interval Customers	C=B/A	**0.00%**		

Allocation of Total GA Balance $

Total GA Balance	D	$ 1,001,287
New Class A Customer(s)' Former Class B non-Intervals Portion of GA Balance	E=C*D	$ -
GA Balance to be disposed to Current Class B Customers **(if no Class A to Class B Transition Customers)**	F=D-E	$ 1,001,287

Allocation of GA Balances to Former Class B non-Interval Customers

# of Former Class B customer(s)			2	9				
Customer		**Total Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2016**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2015**	**Interval-Billed* Customer? Yes/No**	**% of kWh**	**Customer specific GA allocation for the period prior to becoming Class A**	**Monthly Equal Payments**
Customer 1		19,447,845	6,971,708	12,476,137	Yes			
Customer 2		29,902,845	10,318,215	19,584,630	Yes			
Customer 3		6,026,298		6,026,298	Yes			
Customer 4		12,447,644		12,447,644	Yes			
Customer 5		12,209,935		12,209,935	Yes			
Customer 6		9,497,252		9,497,252	Yes			
Customer 7		16,233,082		16,233,082	Yes			
Customer 8		10,657,916		10,657,916	Yes			
Customer 9		18,328,128		18,328,128	Yes			
Customer 10		12,899,685		12,899,685	Yes			
Customer 11		9,492,312		9,492,312	Yes			
Total for all Customers		157,142,942	17,289,923	139,853,020				
Total for non-Interval billed ONLY		**0**	**0**	**0**		**0.00%**	$ -	

NOTES:

*PowerStream bills non-RPP interval customers using the Actual rate of Global Adjustment provided by the Independent Electricity System Operator (the "IESO").

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the GA balance to former Class A customers who contributed to the current Class B GA balance once switched to Class B non-interval customers. The tables below calculate specific amounts for each customer who made the transition. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2014**	**(e.g. If in the 2017 EDR process, you received approval to dispose the GA variance account balance as of December 31, 2014, please enter 2014 in cell C16.)**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class B non-interval (Former Class A) customers

		Total	**2016**
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	4,232,691,765	4,232,691,765
New Class B non-Interval Customer(s)' Consumption	B	-	-
Portion of Consumption of New Class B non-Interval Customers	C=B/A	**0.00%**	

Allocation of Total GA Balance $

Total GA Calss B Balance adjusted for Class A	D	$ 1,001,287	
New Class B non-Interval Customer(s)' Former Class A Portion of GA Balance attributable to Class B	E=C*D	$ -	
New Class A Customer(s)' Former Class B non-Interval Portion of GA Balance	F=Sheet 6A	$ -	
GA Balance to be disposed to Current Class B Customers	**G=D-E-F**	**$ 1,001,287**	Input into Sheet 6. GA Calculation

Allocation of GA Balances to Former Class A Customers

# of Former Class B customer(s)			2				
Customer		**Total Metered kWh Consumption for each new Class B customer for the period after becoming Class B**	**Metered kWh Consumption for each new Class B customer for the period after becoming Class B in 2016**	**Interval-Billed* Customer? Yes/No**	**% of kWh**	**Customer specific GA allocation for the period after becoming Class B**	**Monthly Equal Payments**
Customer 1		3,272,005	3,272,005	Yes			
Total		3,272,005	3,272,005				
Total for non-Interval billed ONLY		**0**	**0**		**0.00%**	**$ -**	

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab calculates adjustments to the current Board-Approved (2016 CIR EB-2015-0003) GA rate rider. PowerStream bills Class B non-RPP interval billed customers at the actual monthly GA rate (no GA variance) and non-interval customers at the first estimate rate. PowerStream is proposing to make changes to the current billing schema and bill Class B non-RPP interval billed customers at the 1st Estimate GA rate. PowerStream is proposing to make these adjustments effective January 1, 2018.

Table 1. Rate Rider Calculation for RSVA - Power - Global Adjustment
Current Board-Approved GA Rate Rider (2016 CIR, EB-2015-0003), effective October 1, 2016 until September 30, 2018

Rate Rider Recovery Period (in years) **2**

Rate Class	Units	Non-RPP kW / kWh	Balance of RSVA - Power - Global Adjustment	Rate Rider for RSVA - Power - Global Adjustment	
RESIDENTIAL SERVICE CLASSIFICATION	kWh	155,835,069	$359,375	$0.0012	$/kWh
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	165,757,654	$382,258	$0.0012	$/kWh
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	11,136,807	$9,619,063	$0.4319	$/kW
LARGE USE SERVICE CLASSIFICATION	kW				
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	257,889	$595	$0.0012	$/kWh
STANDBY POWER SERVICE CLASSIFICATION	kW				
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	120	$107	$0.4458	$/kW
STREET LIGHTING SERVICE CLASSIFICATION	kW	131,791	$108,704	$0.4124	$/kW
Total			**$10,470,102**		

Table 2. Calculation of the Projected Amount collected to Dec 31/17 of the current rate rider

		Effective Date	Termination Date
Rate Rider Recovery Period (in months)	**24**	1-Oct-16	30-Sep-18
Projected Recovery Period (in months)	**15**	1-Oct-16	31-Dec-17

Rate Class	Units	Non-RPP kW / kWh / per month	Rate Rider for RSVA - Power - Global Adjustment	Projected Amount Collected to Dec 31, 2017	
		A	B	A x B x Projected Recovery Period	
RESIDENTIAL SERVICE CLASSIFICATION	kWh	12,986,256	$0.0012	$233,752.60	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	13,813,138	$0.0012	$248,636.48	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION - **INTERVALS**	kW	483,844	$0.4319	$3,134,584.67	to be refunded
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION - **NON-INTERVALS**	kW	444,223	$0.4319	$2,877,899.00	
LARGE USE SERVICE CLASSIFICATION	kW				
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	21,491	$0.0012	$386.83	
STANDBY POWER SERVICE CLASSIFICATION	kW				
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	10	$0.4458	$66.87	
STREET LIGHTING SERVICE CLASSIFICATION	kW	10,983	$0.4124	$67,938.26	
				$6,563,265	
				$3,906,837.27	Remaining Balance to be recovered
					Total Table 1 LESS Total Table 2

Table 3. Calculation of RSVA Power - Global Adjustment rate riders for the remaining recovery period

		Effective Date	Termination Date
Rate Rider Recovery Period (in months)	**24**	1-Oct-16	30-Sep-18
Projected Recovery Period (in months)	**15**	1-Oct-16	31-Dec-17
Remaining Recovery Period (in months)	**9**	1-Jan-18	30-Sep-18

Rate Class	Units	Billed kWh for Non-RPP Customers LESS Class A Consumption LESS Intervals (source: 2016 CIR EDVAR Model, Tab 4, Column Q)	Class Allocation Percentages	Amount to be Recovered from GS>50 non-Intervals (allocated to all classes)	Remaining Balance to be Recovered	Total Balance to be Recovered incl. GS>50 Intervals Balance	Proposed Rate Riders RSVA - Power - GA Jan 1, 2018 to Sep 30, 2018: Rate Rider for RSVA - Power - Global Adjustment GS>50 Class B Intervals ONLY	Proposed Rate Riders RSVA - Power - GA Jan 1, 2018 to Sep 30, 2018: Rate Rider for RSVA - Power - Global Adjustment excl. GS>50 Class B Intervals	
				A	B	A + B			
RESIDENTIAL SERVICE CLASSIFICATION	kWh	155,835,069	6.56%	$205,518	$256,150	$461,668		**$0.0040**	$/kWh
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	165,757,654	6.97%	$218,604	$272,460	$491,064		**$0.0040**	$/kWh
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	2,007,782,365	84.47%	$2,647,896	$3,300,246	$5,948,143	**-$0.7198**	**$1.4878**	$/kW
LARGE USE SERVICE CLASSIFICATION	kW								
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	257,889	0.01%	$340	$424	$764		**$0.0040**	$/kWh
STANDBY POWER SERVICE CLASSIFICATION	kW								
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	46,506	0.00%	$61	$76	$138		**$1.5308**	$/kW
STREET LIGHTING SERVICE CLASSIFICATION	kW	47,136,932	1.98%	$62,165	$77,480	$139,645		**$1.4128**	$/kW
		2,376,816,415	100.00%	**$3,134,585**	**$3,906,837**	**7,041,422**			

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this tab is to calculate the CBR rate riders for all current Class B customers of the distributor.
Identify and input the total billed consumption for former Class B customers prior to becoming Class A customers in Column H.
Identify and input the total billed consumption for former Class A customers after becoming Class B customers in Column H.

Account 1580

Variance WMS – Sub-account CBR Class A	$	0
Variance WMS – Sub-account CBR Class B	$	1,998,524

	Total Metered LESS WMP		Total Metered Class A Consumption/Demand in 2016 (partial and/or full year Class A customers)*		Total Metered Consumption/Demand for New Class A customer(s) in the period prior to becoming Class A (i.e. Jan 1 - Jun 30, 2016)		Total Metered Consumption for New Class B customer(s) in the period after becoming Class B (i.e. Jul 1 - Dec 31, 2016)		Metered Consumption for Current Class B Customers (metered consumption/demand LESS WMP, Class A and new Class A's former Class B, if applicable)		% of total kWh	Total CBR $ allocated to Current Class B Customers	CBR Rate Rider	
	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW				
RESIDENTIAL SERVICE CLASSIFICATION	2,770,663,827	0	0		0				2,770,663,827	0	33.994%	$671,713	$0.0002	kwh
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	1,035,123,196	0	0		0				1,035,123,196	0	12.700%	$250,953	$0.0002	kwh
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	4,577,906,269	12,081,588	282,814,387	518,392	17,289,923	34,152			4,277,801,960	11,529,044	52.486%	$1,037,100	$0.0900	kW
LARGE USE SERVICE CLASSIFICATION	67,734,070	149,959	64,462,065	122,343	0	0	3,272,005	27,617	0	(0)	0.000%	$0	$0.0000	kW
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	13,630,753	0	0		0				13,630,753	0	0.167%	$3,305	$0.0002	kwh
STANDBY POWER SERVICE CLASSIFICATION	0	0	0		0				0	0	0.000%	$0		kW
SENTINEL LIGHTING SERVICE CLASSIFICATION	314,901	858	0		0				314,901	858	0.004%	$76	$0.0890	kW
STREET LIGHTING SERVICE CLASSIFICATION	52,846,039	148,247	0		0				52,846,039	148,247	0.648%	$12,812	$0.0864	kW
	8,518,219,056	**12,380,652**	**347,276,452**	**640,734**	**17,289,923**	**34,152**	**3,272,005**	**27,617**	**8,150,380,676**	**11,678,149**	**100.0%**	**1,975,958**		
												from Sheet 7B		

*For new Class A customers (who became Class A in 2016), add their consumption only related to July to December period.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the CBR balance to former Class B customers who contributed to the current CBR balance but are now Class A customers. The tables below calculate specific amounts for each customer who made the change. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed	**2014**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class A (Former Class B) customers

		Total	**2016**	**2016**
Total MeteredConsumption for Years Since Last Disposition (consumption LESS WMP and Class A)	A	14,206,731,592	8,176,902,767	6,029,828,825
New Class A Customer(s)' Former Class B Consumption	B	157,142,942	17,289,923	139,853,020
Portion of Consumption of Former Class B Customers	C=B/A	**1.11%**		

Allocation of Total CBR Class B Balance $

Total CBR-Class B Balance	D	$ 1,998,524
New Class A Customer(s)' Former Class B Portion of CBR-Class B Balance	E=C*D	$ 22,106
CBR-Class B Balance to be disposed to Current Class B Customers **(if no Class A to Class B Transition Customers)**	F=D-E	$ 1,976,418

Allocation of CBR Class B Balances to Former Class B Customers

# of Former Class B customer(s)			2	9			
Customer		**Total Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2016**	**Metered kWh Consumption for each new Class A customer for the period prior to becoming Class A in 2015**	**% of kWh**	**Customer specific CBR-Class B allocation for the period prior to becoming Class A**	**Monthly Equal Payments**
Customer 1		19,447,845	6,971,708	12,476,137	12.38%	$ 2,736	$ 228
Customer 2		29,902,845	10,318,215	19,584,630	19.03%	$ 4,207	$ 351
Customer 3		6,026,298		6,026,298	3.83%	$ 848	$ 71
Customer 4		12,447,644		12,447,644	7.92%	$ 1,751	$ 146
Customer 5		12,209,935		12,209,935	7.77%	$ 1,718	$ 143
Customer 6		9,497,252		9,497,252	6.04%	$ 1,336	$ 111
Customer 7		16,233,082		16,233,082	10.33%	$ 2,284	$ 190
Customer 8		10,657,916		10,657,916	6.78%	$ 1,499	$ 125
Customer 9		18,328,128		18,328,128	11.66%	$ 2,578	$ 215
Customer 10		12,899,685		12,899,685	8.21%	$ 1,815	$ 151
Customer 11		9,492,312		9,492,312	6.04%	$ 1,335	$ 111
Total		157,142,942	17,289,923	139,853,020	100.00%	$ 22,106	$ 1,842

INCENTIVE REGULATION MODEL FOR 2018 FILERS

This tab allocates the CBR-Class B balance to former Class A customers who contributed to the current CBR-Class B balance once switched to Class B customers. The tables below calculate specific amounts for each customer who made the transition. Consistent with both decisions for 2016 rates and EDDVAR, distributors are generally expected to settle the amount through 12 equal adjustments to bills. A one-time settlement is acceptable if the affected customer has expressed a clear preference for this approach. (see Filing Requirements section 3.2.5.2)

Year of Group 1 Account Balance Last Disposed **2014**

Allocation of total Non-RPP consumption (kWh) between Class B and New Class B (Former Class A) customers

		Total	2016	2015
Total Class B Consumption for Years Since Last Disposition (Non-RPP consumption LESS WMP and Class A)	A	14,206,731,592	8,176,902,767	6,029,828,825
New Class B Customer(s)' Consumption	B	3,272,005	3,272,005	-
Portion of Consumption of New Class B Customers	C=B/A	**0.02%**		

Allocation of Total CBR-Class B Balance $

Total CBR-Calss B Balance adjusted for Class A	D	$ 1,998,524
New Class B Customer(s)' Former Class A Portion of CBR-Class B Balance attributable to Class B	E=C*D	$ 460
New Class A Customer(s)' Former Class B Portion of CBR-Class B Balance	F=Sheet 6A	$ 22,106
CBR-Class B Balance to be disposed to Current Class B Customers	**G=D-E-F**	**$ 1,975,958**

Input into Sheet 7. CBR Calculation

Allocation of CBR-Class B Balances to Former Class A Customers

# of Former Class B customer(s)			1	0			
Customer		**Total Metered kWh Consumption for each new Class B customer for the period after becoming Class B**	**Metered kWh Consumption for each new Class B customer for the period after becoming Class B in 2016**		**% of kWh**	**Customer specific CBR-Class B allocation for the period after becoming Class B**	**Monthly Equal Payments**
Customer 1		3,272,005	3,272,005	0	100.00%	$ 460	$ 38
					0.00%	$ -	$ -
					0.00%	$ -	$ -
					0.00%	$ -	$ -
Total		3,272,005	3,272,005	0	100.00%	$ 460	

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Input required at cell D13 only. This workshseet calculates rate riders related to the Deferral/Variance Account Disposition (if applicable) and rate riders for Account 1568. Rate Riders will not be generated for the microFIT class.

Default Rate Rider Recovery Period (in months)	**12**
Proposed Rate Rider Recovery Period (in months)	**12**

Rate Rider Recovery to be used below

Rate Class	Unit	Total Metered kWh	Metered kW or kVA	Total Metered kWh less WMP consumption	Total Metered kW less WMP consumption	Allocation of Group 1 Account Balances to All Classes [2]	Allocation of Group 1 Account Balances to Non-WMP Classes Only (if Applicable) [2]	Deferral/Variance Account Rate Rider [2]	Deferral/Variance Account Rate Rider for Non-WMP (if applicable) [2]	Account 1568 Rate Rider	Revenue Reconcilation [1]
RESIDENTIAL SERVICE CLASSIFICATION	kWh	2,770,663,827	0	2,770,663,827	0	(7,772,584)		(0.0028)	0.0000	0.0000	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	1,035,123,196	0	1,035,123,196	0	(2,841,992)		(0.0027)	0.0000	0.0009	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	4,608,279,659	12,138,626	4,577,906,269	12,081,588	220,761	(12,767,113)	0.0182	(1.0567)	0.0792	
LARGE USE SERVICE CLASSIFICATION	kW	67,734,070	149,959	67,734,070	149,959	(184,202)		(1.2283)	0.0000	(0.0719)	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	13,630,753	0	13,630,753	0	(37,074)		(0.0027)	0.0000	(0.0005)	
STANDBY POWER SERVICE CLASSIFICATION	kW	0	0	0	0	0		0.0000	0.0000	0.0000	
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	314,901	858	314,901	858	(855)		(0.9968)	0.0000	(0.3831)	
STREET LIGHTING SERVICE CLASSIFICATION	kW	52,846,039	148,247	52,846,039	148,247	(144,807)		(0.9768)	0.0000	0.5824	
0											
											(23,527,867)
											(0)

[1] When calculating the revenue reconciliation for distributors with Class A customers, the balances of sub-account 1580-CBR Class A and B will not be taken into consideration since the rate riders, if any, are calculated outside of the model.

[2] Only for rate classes with WMP customers are the Deferral/Variance Account Rate Riders for Non-WMP (column H and J) calculated separately. For all rate classes without WMP customers, balances in account 1580 and 1588 are included in column H and disposed through a combined Deferral/Variance Account and Rate Rider.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Summary - Sharing of Tax Change Forecast Amounts

For the 2017 year, enter any Tax Credits from the Cost of Service Tax Calculation (Positive #)

1. Tax Related Amounts Forecast from Capital Tax Rate Changes	**2017**	**2018**
Taxable Capital **(if you are not claiming capital tax, please enter your OEB-Approved Rate Base)**		$ -
Deduction from taxable capital up to $15,000,000		$ -
Net Taxable Capital	$ -	$ -
Rate		0.00%
Ontario Capital Tax (Deductible, not grossed-up)	$ -	$ -
2. Tax Related Amounts Forecast from Income Tax Rate Changes		
Regulatory Taxable Income		$ -
Corporate Tax Rate		15.00%
Tax Impact	$ -	$ -
Grossed-up Tax Amount	$ -	$ -
Tax Related Amounts Forecast from Capital Tax Rate Changes	$ -	$ -
Tax Related Amounts Forecast from Income Tax Rate Changes	$ -	$ -
Total Tax Related Amounts	$ -	$ -
Incremental Tax Savings		$ -
Sharing of Tax Amount (50%)		**$** -

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Calculation of Rebased Revenue Requirement and Allocation of Tax Sharing Amount. Enter data from the last OEB-Approved Cost of Service application in columns D through I.
As per Chapter 3 Filing Requirements, shared tax rate riders are based on a 1 year disposition.

Rate Class		Re-based Billed Customers or Connections A	Re-based Billed kWh B	Re-based Billed kW C	Re-based Service Charge D	Re-based Distribution Volumetric Rate kWh E	Re-based Distribution Volumetric Rate kW F	Service Charge Revenue G = A * D *12	Distribution Volumetric Rate Revenue kWh H = B * E	Distribution Volumetric Rate Revenue kW I = C * F	Revenue Requirement from Rates J = G + H + I	Service Charge % Revenue K = G / J	Distribution Volumetric Rate % Revenue kWh L = H / J	Distribution Volumetric Rate % Revenue kW M = I / J	Total % Revenue N = J / R
RESIDENTIAL SERVICE CLASSIFICATION	kWh	331,461	2,689,802,037	0	18.51	0.0130		73,624,099	34,967,426	0	108,591,525	67.8%	32.2%	0.0%	53.8%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	32,775	1,031,991,524	0	28.74	0.0183		11,303,471	18,885,445	0	30,188,916	37.4%	62.6%	0.0%	15.0%
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	5,081	4,566,530,904	12,192,632	140.97		4.2037	8,594,518	0	51,254,165	59,848,683	14.4%	0.0%	85.6%	29.7%
LARGE USE SERVICE CLASSIFICATION	kW	2	75,964,677	149,679	6073.68		2.2421	145,768	0	335,595	481,364	30.3%	0.0%	69.7%	0.2%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	3,044	14,542,413		8.60	0.0195		314,098	283,577	0	597,675	52.6%	47.4%	0.0%	0.3%
STANDBY POWER SERVICE CLASSIFICATION	kW						2.8081	0	0	0	0	0.0%	0.0%	0.0%	0.0%
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	207	377,900	975	4.19		9.8694	10,408	0	9,621	20,029	52.0%	0.0%	48.0%	0.0%
STREET LIGHTING SERVICE CLASSIFICATION	kW	89,729	45,603,291	127,503	1.19		6.3222	1,281,327	0	806,099	2,087,425	61.4%	0.0%	38.6%	1.0%
0	0							0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
								0	0	0	0	0.0%	0.0%	0.0%	0.0%
Total		462,298	8,424,812,745	12,470,788				95,273,688	54,136,448	52,405,480	201,815,616				100.0%

Rate Class		Total kWh (most recent RRR filing)	Total kW (most recent RRR filing)	Allocation of Tax Savings by Rate Class	Distribution Rate Rider	
RESIDENTIAL SERVICE CLASSIFICATION	kWh	2,770,663,827		$ -	$ -	$/Customer
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	kWh	1,035,123,196		$ -	$ -	$/kWh
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	kW	4,608,279,659	12,138,626	$ -	$ -	$/kW
LARGE USE SERVICE CLASSIFICATION	kW	67,734,070	149,959	$ -	$ -	$/kW
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	13,630,753		$ -	$ -	$/kWh
STANDBY POWER SERVICE CLASSIFICATION	kW			$ -		$/kWh
SENTINEL LIGHTING SERVICE CLASSIFICATION	kW	314,901	858	$ -	$ -	$/kW
STREET LIGHTING SERVICE CLASSIFICATION	kW	52,846,039	148,247	$ -	$ -	$/kW
0	0			$ -		
				$ -		
				$ -		
				$ -		
				$ -		
		8,548,592,446	**12,437,690**	**$ -**		

If the allocated tax sharing amount does not produce a rate rider in one or more rate class (except for the Standby rate class), a distributor is required to transfer the entire OEB-approved tax sharing amount into account 1595 for disposition at a later date (see Filing Requirements, Appendix B)

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Columns F and G must match the data from the most recent RRR filing.
Rates have been imported from Tab 2. As well, the Loss Factor has been imported from "Model Specs" tab.
If the data needs to be modified, please make the necessary adjustments and note the changes in your manager's summary.

Rate Class	Rate Description	Unit	Rate	Non-Loss Adjusted Metered kWh	Non-Loss Adjusted Metered kW	Applicable Loss Factor	Loss Adjusted Billed kWh
Residential Service Classification	Retail Transmission Rate – Network Service Rate	$/kWh	0.0082	2,770,663,827	0	1.0369	2,872,901,322
Residential Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0038	2,770,663,827	0	1.0369	2,872,901,322
General Service Less Than 50 kW Service Classification	Retail Transmission Rate – Network Service Rate	$/kWh	0.0073	1,035,123,196	0	1.0369	1,073,319,242
General Service Less Than 50 kW Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0033	1,035,123,196	0	1.0369	1,073,319,242
General Service Greater Than 50 kW Service Classification	Retail Transmission Rate – Network Service Rate	$/kW	2.9268	2,289,505,114	6,491,539	1.0369	2,373,987,853
General Service Greater Than 50 kW Service Classification	Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	3.0681	2,318,951,031	5,647,087	1.0369	2,404,520,324
General Service Greater Than 50 kW Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.2618	2,289,505,114	6,491,539	1.0369	2,373,987,853
General Service Greater Than 50 kW Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	$/kW	1.3652	2,318,951,031	5,647,087	1.0369	2,404,520,324
Large Use Service Classification	Retail Transmission Rate – Network Service Rate	$/kW	3.5361	67,734,070	149,959	1.0145	68,716,214
Large Use Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3178	67,734,070	149,959	1.0145	68,716,214
Unmetered Scattered Load Service Classification	Retail Transmission Rate – Network Service Rate	$/kWh	0.0069	13,630,753	0	1.0369	14,133,728
Unmetered Scattered Load Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0035	13,630,753	0	1.0369	14,133,728
Sentinel Lighting Service Classification	Retail Transmission Rate – Network Service Rate	$/kW	2.2743	314,901	858	1.0369	326,521
Sentinel Lighting Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	0.9336	314,901	858	1.0369	326,521
Street Lighting Service Classification	Retail Transmission Rate – Network Service Rate	$/kW	2.9431	52,846,039	148,247	1.0369	54,796,058
Street Lighting Service Classification	Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3520	52,846,039	148,247	1.0369	54,796,058

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Uniform Transmission Rates	Unit	2016	2017	2018
Rate Description		**Rate**	**Rate**	**Rate**
Network Service Rate	kW	$ 3.66	$ 3.66	$ 3.66
Line Connection Service Rate	kW	$ 0.87	$ 0.87	$ 0.87
Transformation Connection Service Rate	kW	$ 2.02	$ 2.02	$ 2.02

Hydro One Sub-Transmission Rates	Unit	2016		2017	2018
		Jan-16	Feb - Dec 2016	Jan - Dec 2017	
Rate Description		**Rate**	**Rate**	**Rate**	**Rate**
Network Service Rate	kW	$ 3.4121	$ 3.3396	$ 3.1942	$ 3.1942
Line Connection Service Rate	kW	$ 0.7879	$ 0.7791	$ 0.7710	$ 0.7710
Transformation Connection Service Rate	kW	$ 1.8018	$ 1.7713	$ 1.7493	$ 1.7493
Both Line and Transformation Connection Service Rate	kW	$ 2.5897	$ 2.5504	$ 2.5203	$ 2.5203

If needed, add extra host here. (I)	Unit	2016	2017	2018
Rate Description		**Rate**	**Rate**	**Rate**
Network Service Rate	kW			
Line Connection Service Rate	kW			
Transformation Connection Service Rate	kW			
Both Line and Transformation Connection Service Rate	kW	$ -	$ -	$ -

If needed, add extra host here. (II)	Unit	2016	2017	2018
Rate Description		**Rate**	**Rate**	**Rate**
Network Service Rate	kW			
Line Connection Service Rate	kW			
Transformation Connection Service Rate	kW			
Both Line and Transformation Connection Service Rate	kW	$ -	$ -	$ -

		Historical 2016	Current 2017	Forecast 2018
Low Voltage Switchgear Credit (if applicable, enter as a negative value)	$			

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In the green shaded cells, enter billing detail for wholesale transmission for the same reporting period as the billing determinants on Tab 10. For Hydro One Sub-transmission Rates, if you are charged a combined Line and Transformer connection rate, please ensure that both the Line Connection and Transformation Connection columns are completed.
If any of the Hydro One Sub-transmission rates (column E, I and M) are highlighted in orange, please double check the billing data entered in "Units Billed" and "Amount" columns. The highlighted rates do not match the Hydro One Sub-transmission rates approved for that time period. If data has been entered correctly, please provide explanation for the discrepancy in rates.

IESO	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,103,965	$3.66	$ 4,040,512	1,208,258	$0.87	$ 1,051,184	331,871	$2.02	$ 670,379	$ 1,721,564
February	1,121,010	$3.66	$ 4,102,897	1,228,518	$0.87	$ 1,068,811	347,984	$2.02	$ 702,928	$ 1,771,738
March	1,128,506	$3.66	$ 4,130,332	1,182,828	$0.87	$ 1,029,060	340,155	$2.02	$ 687,113	$ 1,716,173
April	999,526	$3.66	$ 3,658,265	1,128,515	$0.87	$ 981,808	301,437	$2.02	$ 608,903	$ 1,590,711
May	1,231,944	$3.66	$ 4,508,915	1,374,680	$0.87	$ 1,195,972	373,175	$2.02	$ 753,814	$ 1,949,785
June	1,535,794	$3.66	$ 5,621,006	1,628,403	$0.87	$ 1,416,711	493,828	$2.02	$ 997,533	$ 2,414,243
July	1,556,405	$3.66	$ 5,696,442	1,642,181	$0.87	$ 1,428,697	460,646	$2.02	$ 930,505	$ 2,359,202
August	1,567,922	$3.66	$ 5,738,595	1,675,437	$0.87	$ 1,457,630	458,434	$2.02	$ 926,037	$ 2,383,667
September	1,590,879	$3.66	$ 5,822,617	1,637,327	$0.87	$ 1,424,474	448,575	$2.02	$ 906,122	$ 2,330,596
October	1,018,780	$3.66	$ 3,728,735	1,130,547	$0.87	$ 983,576	292,774	$2.02	$ 591,403	$ 1,574,979
November	1,049,217	$3.66	$ 3,840,134	1,143,767	$0.87	$ 995,077	313,982	$2.02	$ 634,244	$ 1,629,321
December	1,082,939	$3.66	$ 3,963,557	1,153,228	$0.87	$ 1,003,308	324,636	$2.02	$ 655,765	$ 1,659,073
Total	14,986,887	$ 3.66	$ 54,852,006	16,133,689	$ 0.87	$ 14,036,309	4,487,497	$ 2.02	$ 9,064,744	$ 23,101,053

Hydro One	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	197,814	$3.41	$ 674,961	201,119	$0.79	$ 158,462	201,119	$1.80	$ 362,376	$ 520,838
February	192,863	$3.34	$ 644,084	193,047	$0.78	$ 150,403	193,047	$1.77	$ 341,944	$ 492,347
March	186,856	$3.34	$ 624,024	187,779	$0.78	$ 146,299	187,779	$1.77	$ 332,613	$ 478,912
April	173,253	$3.34	$ 578,595	177,300	$0.78	$ 138,134	177,300	$1.77	$ 314,051	$ 452,185
May	229,686	$3.34	$ 767,058	237,621	$0.78	$ 185,131	237,621	$1.77	$ 420,899	$ 606,030
June	274,118	$3.34	$ 915,444	274,118	$0.78	$ 213,565	274,118	$1.77	$ 485,545	$ 699,110
July	272,076	$3.34	$ 908,626	272,076	$0.78	$ 211,975	272,076	$1.77	$ 481,929	$ 693,903
August	275,683	$3.34	$ 920,671	275,683	$0.78	$ 214,785	275,683	$1.77	$ 488,318	$ 703,102
September	272,684	$3.34	$ 910,656	272,684	$0.78	$ 212,448	272,684	$1.77	$ 483,005	$ 695,454
October	205,142	$3.34	$ 685,091	206,259	$0.78	$ 160,696	206,259	$1.77	$ 365,346	$ 526,043
November	221,653	$3.34	$ 740,231	221,733	$0.78	$ 172,752	221,733	$1.77	$ 392,755	$ 565,507
December	233,549	$3.34	$ 779,960	233,585	$0.78	$ 181,986	233,585	$1.77	$ 413,750	$ 595,736
Total	2,735,376	$ 3.34	$ 9,149,403	2,753,004	$ 0.78	$ 2,146,635	2,753,004	$ 1.77	$ 4,882,531	$ 7,029,166

Total	Network			Line Connection			Transformation Connection			Total Line
Month	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Amount**
January	1,301,779	$3.62	$ 4,715,473	1,409,377	$0.86	$ 1,209,646	532,990	$1.94	$ 1,032,756	$ 2,242,402
February	1,313,873	$3.61	$ 4,746,981	1,421,565	$0.86	$ 1,219,213	541,031	$1.93	$ 1,044,872	$ 2,264,085
March	1,315,362	$3.61	$ 4,754,356	1,370,607	$0.86	$ 1,175,359	527,934	$1.93	$ 1,019,727	$ 2,195,086
April	1,172,779	$3.61	$ 4,236,860	1,305,814	$0.86	$ 1,119,942	478,737	$1.93	$ 922,953	$ 2,042,895
May	1,461,630	$3.61	$ 5,275,973	1,612,301	$0.86	$ 1,381,102	610,796	$1.92	$ 1,174,712	$ 2,555,815
June	1,809,912	$3.61	$ 6,536,450	1,902,521	$0.86	$ 1,630,276	767,946	$1.93	$ 1,483,078	$ 3,113,353
July	1,828,481	$3.61	$ 6,605,068	1,914,257	$0.86	$ 1,640,672	732,722	$1.93	$ 1,412,433	$ 3,053,105
August	1,843,605	$3.61	$ 6,659,266	1,951,120	$0.86	$ 1,672,415	734,117	$1.93	$ 1,414,354	$ 3,086,769
September	1,863,563	$3.61	$ 6,733,273	1,910,011	$0.86	$ 1,636,923	721,259	$1.93	$ 1,389,127	$ 3,026,050
October	1,223,922	$3.61	$ 4,413,826	1,336,806	$0.86	$ 1,144,272	499,033	$1.92	$ 956,750	$ 2,101,022
November	1,270,870	$3.60	$ 4,580,365	1,365,500	$0.86	$ 1,167,829	535,715	$1.92	$ 1,026,999	$ 2,194,828
December	1,316,488	$3.60	$ 4,743,517	1,386,813	$0.85	$ 1,185,295	558,221	$1.92	$ 1,069,514	$ 2,254,809
Total	17,722,263	$ 3.61	$ 64,001,409	18,886,693	$ 0.86	$ 16,182,945	7,240,501	$ 1.93	$ 13,947,274	$ 30,130,219
									Low Voltage Switchgear Credit (if applicable)	$ -
									Total including deduction for Low Voltage Switchgear Credit	$ 30,130,219

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The purpose of this sheet is to calculate the expected billing when current 2017 Uniform Transmission Rates are applied against historical 2016 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,103,965	$ 3.6600	$ 4,040,512	1,208,258	$ 0.8700	$ 1,051,184	331,871	$ 2.0200	$ 670,379	$ 1,721,564
February	1,121,010	$ 3.6600	$ 4,102,897	1,228,518	$ 0.8700	$ 1,068,811	347,984	$ 2.0200	$ 702,928	$ 1,771,738
March	1,128,506	$ 3.6600	$ 4,130,332	1,182,828	$ 0.8700	$ 1,029,060	340,155	$ 2.0200	$ 687,113	$ 1,716,173
April	999,526	$ 3.6600	$ 3,658,265	1,128,515	$ 0.8700	$ 981,808	301,437	$ 2.0200	$ 608,903	$ 1,590,711
May	1,231,944	$ 3.6600	$ 4,508,915	1,374,680	$ 0.8700	$ 1,195,972	373,175	$ 2.0200	$ 753,814	$ 1,949,785
June	1,535,794	$ 3.6600	$ 5,621,006	1,628,403	$ 0.8700	$ 1,416,711	493,828	$ 2.0200	$ 997,533	$ 2,414,243
July	1,556,405	$ 3.6600	$ 5,696,442	1,642,181	$ 0.8700	$ 1,428,697	460,646	$ 2.0200	$ 930,505	$ 2,359,202
August	1,567,922	$ 3.6600	$ 5,738,595	1,675,437	$ 0.8700	$ 1,457,630	458,434	$ 2.0200	$ 926,037	$ 2,383,667
September	1,590,879	$ 3.6600	$ 5,822,617	1,637,327	$ 0.8700	$ 1,424,474	448,575	$ 2.0200	$ 906,122	$ 2,330,596
October	1,018,780	$ 3.6600	$ 3,728,735	1,130,547	$ 0.8700	$ 983,576	292,774	$ 2.0200	$ 591,403	$ 1,574,979
November	1,049,217	$ 3.6600	$ 3,840,134	1,143,767	$ 0.8700	$ 995,077	313,982	$ 2.0200	$ 634,244	$ 1,629,321
December	1,082,939	$ 3.6600	$ 3,963,557	1,153,228	$ 0.8700	$ 1,003,308	324,636	$ 2.0200	$ 655,765	$ 1,659,073
Total	14,986,887	$ 3.66	$ 54,852,006	16,133,689	$ 0.87	$ 14,036,309	4,487,497	$ 2.02	$ 9,064,744	$ 23,101,053

Hydro One	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	197,814	$ 3.1942	$ 631,857	201,119	$ 0.7710	$ 155,063	201,119	$ 1.7493	$ 351,818	$ 506,880
February	192,863	$ 3.1942	$ 616,042	193,047	$ 0.7710	$ 148,839	193,047	$ 1.7493	$ 337,697	$ 486,536
March	186,856	$ 3.1942	$ 596,856	187,779	$ 0.7710	$ 144,778	187,779	$ 1.7493	$ 328,482	$ 473,260
April	173,253	$ 3.1942	$ 553,404	177,300	$ 0.7710	$ 136,698	177,300	$ 1.7493	$ 310,150	$ 446,848
May	229,686	$ 3.1942	$ 733,662	237,621	$ 0.7710	$ 183,206	237,621	$ 1.7493	$ 415,671	$ 598,877
June	274,118	$ 3.1942	$ 875,587	274,118	$ 0.7710	$ 211,345	274,118	$ 1.7493	$ 479,514	$ 690,859
July	272,076	$ 3.1942	$ 869,066	272,076	$ 0.7710	$ 209,771	272,076	$ 1.7493	$ 475,943	$ 685,714
August	275,683	$ 3.1942	$ 880,587	275,683	$ 0.7710	$ 212,552	275,683	$ 1.7493	$ 482,253	$ 694,804
September	272,684	$ 3.1942	$ 871,008	272,684	$ 0.7710	$ 210,239	272,684	$ 1.7493	$ 477,006	$ 687,246
October	205,142	$ 3.1942	$ 655,264	206,259	$ 0.7710	$ 159,026	206,259	$ 1.7493	$ 360,809	$ 519,834
November	221,653	$ 3.1942	$ 708,003	221,733	$ 0.7710	$ 170,956	221,733	$ 1.7493	$ 387,877	$ 558,833
December	233,549	$ 3.1942	$ 746,002	233,585	$ 0.7710	$ 180,094	233,585	$ 1.7493	$ 408,611	$ 588,705
Total	2,735,376	$ 3.19	$ 8,737,338	2,753,004	$ 0.77	$ 2,122,566	2,753,004	$ 1.75	$ 4,815,830	$ 6,938,397

Total	Network			Line Connection			Transformation Connection			Total Line
Month	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Units Billed**	**Rate**	**Amount**	**Amount**
January	1,301,779	$ 3.5892	$ 4,672,369	1,409,377	$ 0.8559	$ 1,206,247	532,990	$ 1.9179	$ 1,022,197	$ 2,228,444
February	1,313,873	$ 3.5916	$ 4,718,939	1,421,565	$ 0.8566	$ 1,217,650	541,031	$ 1.9234	$ 1,040,625	$ 2,258,274
March	1,315,362	$ 3.5938	$ 4,727,188	1,370,607	$ 0.8564	$ 1,173,838	527,934	$ 1.9237	$ 1,015,595	$ 2,189,434
April	1,172,779	$ 3.5912	$ 4,211,669	1,305,814	$ 0.8566	$ 1,118,506	478,737	$ 1.9197	$ 919,053	$ 2,037,559
May	1,461,630	$ 3.5868	$ 5,242,577	1,612,301	$ 0.8554	$ 1,379,178	610,796	$ 1.9147	$ 1,169,485	$ 2,548,662
June	1,809,912	$ 3.5895	$ 6,496,593	1,902,521	$ 0.8557	$ 1,628,055	767,946	$ 1.9234	$ 1,477,047	$ 3,105,102
July	1,828,481	$ 3.5907	$ 6,565,508	1,914,257	$ 0.8559	$ 1,638,468	732,722	$ 1.9195	$ 1,406,448	$ 3,044,916
August	1,843,605	$ 3.5903	$ 6,619,182	1,951,120	$ 0.8560	$ 1,670,182	734,117	$ 1.9183	$ 1,408,289	$ 3,078,471
September	1,863,563	$ 3.5918	$ 6,693,625	1,910,011	$ 0.8559	$ 1,634,714	721,259	$ 1.9177	$ 1,383,128	$ 3,017,842
October	1,223,922	$ 3.5819	$ 4,383,999	1,336,806	$ 0.8547	$ 1,142,602	499,033	$ 1.9081	$ 952,212	$ 2,094,814
November	1,270,870	$ 3.5788	$ 4,548,137	1,365,500	$ 0.8539	$ 1,166,033	535,715	$ 1.9080	$ 1,022,121	$ 2,188,154
December	1,316,488	$ 3.5774	$ 4,709,559	1,386,813	$ 0.8533	$ 1,183,403	558,221	$ 1.9067	$ 1,064,375	$ 2,247,778
Total	17,722,263	$ 3.59	$ 63,589,344	18,886,693	$ 0.86	$ 16,158,875	7,240,501	$ 1.92	$ 13,880,574	$ 30,039,450
							Low Voltage Switchgear Credit (if applicable)			$ -
							Total including deduction for Low Voltage Switchgear Credit			$ 30,039,450

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this sheet is to calculate the expected billing when forecasted 2018 Uniform Transmission Rates are applied against historical 2016 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,103,965	$ 3.6600	$ 4,040,512	1,208,258	$ 0.8700	$ 1,051,184	331,871	$ 2.0200	$ 670,379	$ 1,721,564
February	1,121,010	$ 3.6600	$ 4,102,897	1,228,518	$ 0.8700	$ 1,068,811	347,984	$ 2.0200	$ 702,928	$ 1,771,738
March	1,128,506	$ 3.6600	$ 4,130,332	1,182,828	$ 0.8700	$ 1,029,060	340,155	$ 2.0200	$ 687,113	$ 1,716,173
April	999,526	$ 3.6600	$ 3,658,265	1,128,515	$ 0.8700	$ 981,808	301,437	$ 2.0200	$ 608,903	$ 1,590,711
May	1,231,944	$ 3.6600	$ 4,508,915	1,374,680	$ 0.8700	$ 1,195,972	373,175	$ 2.0200	$ 753,814	$ 1,949,785
June	1,535,794	$ 3.6600	$ 5,621,006	1,628,403	$ 0.8700	$ 1,416,711	493,828	$ 2.0200	$ 997,533	$ 2,414,243
July	1,556,405	$ 3.6600	$ 5,696,442	1,642,181	$ 0.8700	$ 1,428,697	460,646	$ 2.0200	$ 930,505	$ 2,359,202
August	1,567,922	$ 3.6600	$ 5,738,595	1,675,437	$ 0.8700	$ 1,457,630	458,434	$ 2.0200	$ 926,037	$ 2,383,667
September	1,590,879	$ 3.6600	$ 5,822,617	1,637,327	$ 0.8700	$ 1,424,474	448,575	$ 2.0200	$ 906,122	$ 2,330,596
October	1,018,780	$ 3.6600	$ 3,728,735	1,130,547	$ 0.8700	$ 983,576	292,774	$ 2.0200	$ 591,403	$ 1,574,979
November	1,049,217	$ 3.6600	$ 3,840,134	1,143,767	$ 0.8700	$ 995,077	313,982	$ 2.0200	$ 634,244	$ 1,629,321
December	1,082,939	$ 3.6600	$ 3,963,557	1,153,228	$ 0.8700	$ 1,003,308	324,636	$ 2.0200	$ 655,765	$ 1,659,073
Total	14,986,887	$ 3.66	$ 54,852,006	16,133,689	$ 0.87	$ 14,036,309	4,487,497	$ 2.02	$ 9,064,744	$ 23,101,053

Hydro One	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	197,814	$ 3.1942	$ 631,857	201,119	$ 0.7710	$ 155,063	201,119	$ 1.7493	$ 351,818	$ 506,880
February	192,863	$ 3.1942	$ 616,042	193,047	$ 0.7710	$ 148,839	193,047	$ 1.7493	$ 337,697	$ 486,536
March	186,856	$ 3.1942	$ 596,856	187,779	$ 0.7710	$ 144,778	187,779	$ 1.7493	$ 328,482	$ 473,260
April	173,253	$ 3.1942	$ 553,404	177,300	$ 0.7710	$ 136,698	177,300	$ 1.7493	$ 310,150	$ 446,848
May	229,686	$ 3.1942	$ 733,662	237,621	$ 0.7710	$ 183,206	237,621	$ 1.7493	$ 415,671	$ 598,877
June	274,118	$ 3.1942	$ 875,587	274,118	$ 0.7710	$ 211,345	274,118	$ 1.7493	$ 479,514	$ 690,859
July	272,076	$ 3.1942	$ 869,066	272,076	$ 0.7710	$ 209,771	272,076	$ 1.7493	$ 475,943	$ 685,714
August	275,683	$ 3.1942	$ 880,587	275,683	$ 0.7710	$ 212,552	275,683	$ 1.7493	$ 482,253	$ 694,804
September	272,684	$ 3.1942	$ 871,008	272,684	$ 0.7710	$ 210,239	272,684	$ 1.7493	$ 477,006	$ 687,246
October	205,142	$ 3.1942	$ 655,264	206,259	$ 0.7710	$ 159,026	206,259	$ 1.7493	$ 360,809	$ 519,834
November	221,653	$ 3.1942	$ 708,003	221,733	$ 0.7710	$ 170,956	221,733	$ 1.7493	$ 387,877	$ 558,833
December	233,549	$ 3.1942	$ 746,002	233,585	$ 0.7710	$ 180,094	233,585	$ 1.7493	$ 408,611	$ 588,705
Total	2,735,376	$ 3.19	$ 8,737,338	2,753,004	$ 0.77	$ 2,122,566	2,753,004	$ 1.75	$ 4,815,830	$ 6,938,397

Total	Network			Line Connection			Transformation Connection			Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,301,779	$ 3.59	$ 4,672,369	1,409,377	$ 0.86	$ 1,206,247	532,990	$ 1.92	$ 1,022,197	$ 2,228,444
February	1,313,873	$ 3.59	$ 4,718,939	1,421,565	$ 0.86	$ 1,217,650	541,031	$ 1.92	$ 1,040,625	$ 2,258,274
March	1,315,362	$ 3.59	$ 4,727,188	1,370,607	$ 0.86	$ 1,173,838	527,934	$ 1.92	$ 1,015,595	$ 2,189,434
April	1,172,779	$ 3.59	$ 4,211,669	1,305,814	$ 0.86	$ 1,118,506	478,737	$ 1.92	$ 919,053	$ 2,037,559
May	1,461,630	$ 3.59	$ 5,242,577	1,612,301	$ 0.86	$ 1,379,178	610,796	$ 1.91	$ 1,169,485	$ 2,548,662
June	1,809,912	$ 3.59	$ 6,496,593	1,902,521	$ 0.86	$ 1,628,055	767,946	$ 1.92	$ 1,477,047	$ 3,105,102
July	1,828,481	$ 3.59	$ 6,565,508	1,914,257	$ 0.86	$ 1,638,468	732,722	$ 1.92	$ 1,406,448	$ 3,044,916
August	1,843,605	$ 3.59	$ 6,619,182	1,951,120	$ 0.86	$ 1,670,182	734,117	$ 1.92	$ 1,408,289	$ 3,078,471
September	1,863,563	$ 3.59	$ 6,693,625	1,910,011	$ 0.86	$ 1,634,714	721,259	$ 1.92	$ 1,383,128	$ 3,017,842
October	1,223,922	$ 3.58	$ 4,383,999	1,336,806	$ 0.85	$ 1,142,602	499,033	$ 1.91	$ 952,212	$ 2,094,814
November	1,270,870	$ 3.58	$ 4,548,137	1,365,500	$ 0.85	$ 1,166,033	535,715	$ 1.91	$ 1,022,121	$ 2,188,154
December	1,316,488	$ 3.58	$ 4,709,559	1,386,813	$ 0.85	$ 1,183,403	558,221	$ 1.91	$ 1,064,375	$ 2,247,778
Total	17,722,263	$ 3.59	$ 63,589,344	18,886,693	$ 0.86	$ 16,158,875	7,240,501	$ 1.92	$ 13,880,574	$ 30,039,450
							Low Voltage Switchgear Credit (if applicable)			$ -
							Total including deduction for Low Voltage Switchgear Credit			$ 30,039,450

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The purpose of this table is to re-align the current RTS Network Rates to recover current wholesale network costs.

Rate Class	Rate Description	Unit	Current RTSR-Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Adjusted RTSR Network
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0082	2,872,901,322	0	23,557,791	34.2%	21,778,570	0.0076
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0073	1,073,319,242	0	7,835,230	11.4%	7,243,468	0.0067
GENERAL SERVICE GREATER THAN 50 kW SERVICE CLASSIFICATI(	Retail Transmission Rate – Network Service Rate	$/kW	2.9268	2,373,987,853	6,491,539	18,999,437	27.6%	17,564,489	2.7058
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	3.0681	2,404,520,324	5,647,087	17,325,828	25.2%	16,017,281	2.8364
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	3.5361	68,716,214	149,959	530,272	0.8%	490,223	3.2690
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0069	14,133,728	0	97,523	0.1%	90,157	0.0064
SENTINEL LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.2743	326,521	858	1,951	0.0%	1,804	2.1025
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.9431	54,796,058	148,247	436,305	0.6%	403,352	2.7208

The purpose of this table is to re-align the current RTS Connection Rates to recover current wholesale connection costs.

Rate Class	Rate Description	Unit	Current RTSR-Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Adjusted RTSR-Connection
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0038	2,872,901,322	0	10,917,025	35.4%	10,644,780	0.0037
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0033	1,073,319,242	0	3,541,954	11.5%	3,453,626	0.0032
GENERAL SERVICE GREATER THAN 50 kW SERVICE CLASSIFICATI(	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.2618	2,373,987,853	6,491,539	8,191,024	26.6%	7,986,759	1.2303
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.3652	2,404,520,324	5,647,087	7,709,403	25.0%	7,517,149	1.3312
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.3178	68,716,214	149,959	197,617	0.6%	192,689	1.2849
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0035	14,133,728	0	49,468	0.2%	48,234	0.0034
SENTINEL LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	0.9336	326,521	858	801	0.0%	781	0.9103
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.3520	54,796,058	148,247	200,429	0.7%	195,431	1.3183

The purpose of this table is to update the re-aligned RTS Network Rates to recover future wholesale network costs.

Rate Class	Rate Description	Unit	Adjusted RTSR-Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Proposed RTSR-Network
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0076	2,872,901,322	0	21,778,570	34.2%	21,778,570	**0.0076**
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0067	1,073,319,242	0	7,243,468	11.4%	7,243,468	**0.0067**
GENERAL SERVICE GREATER THAN 50 kW SERVICE CLASSIFICATI(	Retail Transmission Rate – Network Service Rate	$/kW	2.7058	2,373,987,853	6,491,539	17,564,489	27.6%	17,564,489	**2.7058**
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.8364	2,404,520,324	5,647,087	16,017,281	25.2%	16,017,281	**2.8364**
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	3.2690	68,716,214	149,959	490,223	0.8%	490,223	**3.2690**
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kWh	0.0064	14,133,728	0	90,157	0.1%	90,157	**0.0064**
SENTINEL LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.1025	326,521	858	1,804	0.0%	1,804	**2.1025**
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Network Service Rate	$/kW	2.7208	54,796,058	148,247	403,352	0.6%	403,352	**2.7208**

The purpose of this table is to update the re-aligned RTS Connection Rates to recover future wholesale connection costs.

Rate Class	Rate Description	Unit	Adjusted RTSR-Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Proposed RTSR-Connection
RESIDENTIAL SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0037	2,872,901,322	0	10,644,780	35.4%	10,644,780	**0.0037**
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0032	1,073,319,242	0	3,453,626	11.5%	3,453,626	**0.0032**
GENERAL SERVICE GREATER THAN 50 kW SERVICE CLASSIFICATI(	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.2303	2,373,987,853	6,491,539	7,986,759	26.6%	7,986,759	**1.2303**
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.3312	2,404,520,324	5,647,087	7,517,149	25.0%	7,517,149	**1.3312**
LARGE USE SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.2849	68,716,214	149,959	192,689	0.6%	192,689	**1.2849**
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kWh	0.0034	14,133,728	0	48,234	0.2%	48,234	**0.0034**
SENTINEL LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	0.9103	326,521	858	781	0.0%	781	**0.9103**
STREET LIGHTING SERVICE CLASSIFICATION	Retail Transmission Rate – Line and Transformation Connection Service I	$/kW	1.3183	54,796,058	148,247	195,431	0.7%	195,431	**1.3183**

INCENTIVE REGULATION MODEL FOR 2018 FILERS

If applicable, please enter any adjustments related to the revenue to cost ratio model into columns C and E. The Price Escalator and Stretch Factor have been set at the 2016 values and will be updated by OEB staff at a later date.

Price Escalator	**1.20%**	**Productivity Factor**	**0.00%**	**# of Residential Customers (approved in the last CoS)**	331,461	**Effective Year of Residential Rate Design Transition (yyyy)**	2017
Choose Stretch Factor Group	III	**Price Cap Index**	**0.90%**	**Billed kWh for Residential Class (approved in the last CoS)**	2,689,802,037	**OEB-approved # of Transition Years**	4
Associated Stretch Factor Value	**0.30%**			**Rate Design Transition Years Left**	**3**		

Rate Class	Current MFC	MFC Adjustment from R/C Model	Current Volumetric Charge	DVR Adjustment from R/C Model	Price Cap Index to be Applied to MFC and DVR	Proposed MFC	Proposed Volumetric Charge
RESIDENTIAL SERVICE CLASSIFICATION	18.51		0.0130		0.90%	21.63	0.0088
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	28.74		0.0183		0.90%	29.00	0.0185
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	140.97		4.2037		0.90%	142.24	4.2415
LARGE USE SERVICE CLASSIFICATION	6073.68		2.2421		0.90%	6,128.34	2.2623
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	8.60		0.0195		0.90%	8.68	0.0197
STANDBY POWER SERVICE CLASSIFICATION			2.8081		0.90%		2.8334
SENTINEL LIGHTING SERVICE CLASSIFICATION	4.19		9.8694		0.90%	4.23	9.9582
STREET LIGHTING SERVICE CLASSIFICATION	1.19		6.3222		0.90%	1.20	6.3791
microFIT SERVICE CLASSIFICATION	5.40					5.40	

Rate Design Transition		Revenue from Rates	Current F/V Split	Decoupling MFC Split	Incremental Fixed Charge ($/month/year)	New F/V Split	Adjusted Rates[1]	Revenue at New F/V Split
Current Residential Fixed Rate (inclusive of R/C adj.)	18.5100	73,624,099	67.8%	10.7%	2.93	78.5%	21.44	85,278,265
Current Residential Variable Rate (inclusive of R/C adj.)	0.0130	34,967,426	32.2%			21.5%	0.0087	23,401,278
		108,591,525						108,679,542

[1] These are the residential rates to which the Price Cap Index will be applied to.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Update the following rates if an OEB Decision has been issued at the time of completing this application

		Proposed
Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service - Administrative Charge (if applicable)	$	0.25
Ontario Electricity Support Program (OESP)	$/kWh	0.0000

Time-of-Use RPP Prices

As of		July 1, 2017
Off-Peak	$/kWh	0.0650
Mid-Peak	$/kWh	0.0950
On-Peak	$/kWh	0.1320

Debt Retirement Charge (DRC)

Debt Retirement Charge (DRC)	$/kWh	0.0070

If your utility's DRC differs from the value in Cell D29, please update this value.

INCENTIVE REGULATION MODEL FOR 2018 FILERS

In the Green Cells below, enter any proposed rate riders that are not already included in this model (e.g.: proposed ICM rate riders). Please note that existing SMIRR and SM Entity Charge do not need to be included below.
In column A, the rate rider descriptions must begin with "Rate Rider for".
In column B, choose the associated unit from the drop-down menu.
In column C, enter the rate. All rate riders with a "$" unit should be rounded to 2 decimal places and all others rounded to 4 decimal places.
In column E, enter the expiry date (e.g. April 30, 2018) or description of the expiry date in text (e.g. the effective date of the next cost of service-based rate order).
In column G, choose the sub-total as applicable in the bill impact calculation from the drop-down menu

RESIDENTIAL SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.25	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kWh	0.0000	- effective until	31-Dec-18	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kWh	0.0002	- effective until	31-Dec-18	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GS<50 SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.26	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kWh	0.0002	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kWh	0.0009	- effective until	31-Dec-18	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kWh	0.0002	- effective until	31-Dec-18	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GS>50 SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	1.28	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0382	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kW	0.0792	- effective until	31-Dec-18	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kW	0.0900	- effective until	31-Dec-18	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

LARGE USER SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	55.22	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0204	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kW	-0.0719	- effective until	31-Dec-18	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kW	0.0000	- effective until	31-Dec-18	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.08	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kWh	0.0002	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kWh	-0.0005	- effective until	31-Dec-18	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kWh	0.0002	- effective until	31-Dec-18	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

SENTINEL LIGHTING SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.04	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0897	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kW	-0.3831	- effective until	31-Dec-18	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kW	0.0890	- effective until	31-Dec-18	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

STREET LIGHTING SERVICE CLASSIFICATION

Rate Rider for Incremental Capital Module (ICM)	$	0.01	- effective until	next COS	A
Rate Rider for Incremental Capital Module (ICM)	$/kW	0.0575	- effective until	next COS	A
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances)	$/kW	0.5824	- effective until	31-Dec-18	A
Rate Rider for Disposition of Capacity Based Recovery Account (2017) - Applicable only for Class B Customers	$/kW	0.0864	- effective until	31-Dec-18	B
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

MICROFIT SERVICE CLASSIFICATION

			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

INCENTIVE REGULATION MODEL FOR 2018 FILERS

Alectra - PowerStream

TARIFF OF RATES AND CHARGES

Effective Date January 1, 2018
Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

RESIDENTIAL SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 750 volts or less where the electricity is used exclusively in a separately metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	21.63
Distribution Volumetric Rate	$/kWh	0.0088
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	$	0.79
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$	0.12
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	$	0.06
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$	0.25
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	$/kWh	(0.0028)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018 Applicable Only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018 Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	$/kWh	0.0040
Retail Transmission Rate – Network Service Rate	$/kWh	0.0076
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0037

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

ONTARIO ELECTRICITY SUPPORT PROGRAM RECIPIENTS

In addition to the charges specified on page 1 of this tariff of rates and charges, the following credits are to be applied to eligible residential customers.

APPLICATION

The application of the charges are in accordance with the Distribution System Code (Section 9) and subsection 79.2(4) of the Ontario Energy Board Act, 1998.
The application of these charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved
In this class:

The application of these credits shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

In this class:
Aboriginal person includes a person who is a First Nations person, a Métis person or an Inuit person;
account-holder means a consumer who has an account with a distributor that falls within a residential-rate classification as specified in a rate order made by the Board under section 78 of the Act, and who lives at the service address to which the account relates for at least six months in a year;

electricity-intensive medical device means an oxygen concentrator, a mechanical ventilator or a kidney dialysis machine;
household means the account-holder and any other people living at the accountholder's service address for at least six months in a year, including people other than the account-holder's spouse, children or other relatives;
household income means the combined annual after-tax income of all members of a household aged 18 or over.

MONTHLY RATES AND CHARGES

Class A
(a) account-holders with a household income of $28,000 or less living in a household of one or two persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of three persons;
(c) account-holders with a household income of between $39,001 and $48,000 living in a household of five persons;
(d) account-holders with a household income of between $48,001 and $52,000 living in a household of seven or more persons;
but does not include account-holders in Class E.

OESP Credit	$	(30.00)

Class B
(a) account-holders with a household income of $28,000 or less living in a household of three persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of four persons;
(c) account-holders with a household income of between $39,001 and $48,000 living in a household of six persons;
but does not include account-holders in Class F.

OESP Credit	$	(34.00)

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date January 1, 2018

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EB-2017-0024

Class C
(a) account-holders with a household income of $28,000 or less living in a household of four persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of five persons;
(c) account-holders with a household income of between $39,001 and $48,000 living in a household of seven or more persons;
but does not include account-holders in Class G.

OESP Credit	$	(38.00)

Class D
(a) account-holders with a household income of $28,000 or less living in a household of five persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of six persons;
but does not include account-holders in Class H.

OESP Credit	$	(42.00)

Class E
Class E comprises account-holders with a household income and household size described under Class A who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(45.00)

Class F
(a) account-holders with a household income of $28,000 or less living in a household of six or more persons;
(b) account-holders with a household income of between $28,001 and $39,000 living in a household of seven or more persons; or
(c) account-holders with a household income and household size described under Class B who also meet any of the following conditions:
i. the dwelling to which the account relates is heated primarily by electricity;
ii. the account-holder or any member of the account-holder's household is an Aboriginal person; or
iii. the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(50.00)

Class G
Class G comprises account-holders with a household income and household size described under Class C who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(55.00)

Class H
Class H comprises account-holders with a household income and household size described under Class D who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(60.00)

Class I
Class I comprises account-holders with a household income and household size described under paragraphs (a) or (b) of Class F who also meet any of the following conditions:
(a) the dwelling to which the account relates is heated primarily by electricity;
(b) the account-holder or any member of the account-holder's household is an Aboriginal person; or
(c) the account-holder or any member of the account-holder's household regularly uses, for medical purposes, an electricity-intensive medical device at the dwelling to which the account relates.

OESP Credit	$	(75.00)

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification includes non-residential accounts taking electricity at 750 volts or less where monthly average peak demand is less than, or is forecast to be less than, 50 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	29.00
Distribution Volumetric Rate	$/kWh	0.0185
Low Voltage Service Rate	$/kWh	0.0004
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	$	0.79
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0002
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	$	0.21
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$	0.26
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$/kWh	0.0002
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until December 31, 2018	$/kWh	0.0009
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	$/kWh	(0.0027)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018 Applicable Only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018 Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	$/kWh	0.0040
Retail Transmission Rate – Network Service Rate	$/kWh	0.0067
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0032

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION

This classification includes non-residential accounts where monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,000 kW. Note that for the application of the Retail Transmission Rate – Network Service Rate and the Retail Transmission Rate – Line and Transformation Connection Service Rate the following sub-classifications apply: General Service 50 to 999 kW non-interval metered, and General Service 50 to 999 kW interval metered. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	142.24
Distribution Volumetric Rate	$/kW	4.2415
Low Voltage Service Rate	$/kW	0.1589
Transformer Discount	$/kW	(0.6000)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1169
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1224)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0620
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$	1.28
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$/kW	0.0382
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until December 31, 2018	$/kW	0.0792
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	$/kW	0.0182
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018 Applicable Only for Non-RPP Customers non-Interval Metered	$/kWh	0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018 Applicable Only for Class B Customers	$/kW	0.0900
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018 Applicable only for Non-Wholesale Market Participants	$/kW	(1.0567)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only to non-RPP non-Interval Metered Customers	$/kW	1.4878
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable only for Class B Interval Metered Customers at December 31, 2016	$/kW	(0.7198)
Retail Transmission Rate – Network Service Rate	$/kW	2.7058
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.2303
Retail Transmission Rate – Network Service Rate – Interval Metered	$/kW	2.8364
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	$/kW	1.3312

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

LARGE USE SERVICE CLASSIFICATION

This classification refers to an account where monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	6,128.34
Distribution Volumetric Rate	$/kW	2.2623
Low Voltage Service Rate	$/kW	0.1630
Transformer Discount	$/kW	(0.6000)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1584
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1659)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0840
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$	55.22
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$/kW	0.0204
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until December 31, 2018	$/kW	(0.0719)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	$/kW	(1.2283)
Retail Transmission Rate – Network Service Rate	$/kW	3.2690
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.2849

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream

TARIFF OF RATES AND CHARGES

Effective Date January 1, 2018

Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component - APPROVED ON AN INTERIM BASIS

Standby Charge – for a month where standby power is not provided. The charge is applied to the contracted amount (e.g. nameplate rating of generation facility).	$/kW	2.8334

Alectra - PowerStream
TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
Implementation Date January 1, 2018

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EB-2017-0024

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification includes accounts taking electricity at 750 volts or less where monthly average peak demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. These connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The customer provides detailed manufacturer information/documentation with regard to electrical demand/consumption of the proposed load. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	8.68
Distribution Volumetric Rate	$/kWh	0.0197
Low Voltage Service Rate	$/kWh	0.0005
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kWh	(0.0003)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kWh	0.0002
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$	0.08
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$/kWh	0.0002
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until December 31, 2018	$/kWh	(0.0005)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	$/kWh	(0.0027)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018 Applicable Only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018 Applicable Only for Class B Customers	$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	$/kWh	0.0040
Retail Transmission Rate – Network Service Rate	$/kWh	0.0064
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kWh	0.0034

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream

TARIFF OF RATES AND CHARGES

Effective Date January 1, 2018

Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as approved by the Ontario Energy Board, which may be applicable to the administration of this schedule.

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Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable. In addition, the charges in the MONTHLY RATES AND CHARGES – Regulatory Component of this schedule do not apply to a customer that is an embedded wholesale market participant.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	4.23
Distribution Volumetric Rate	$/kW	9.9582
Low Voltage Service Rate	$/kW	0.1170
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1210
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1267)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0641
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$	0.04
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$/kW	0.0897
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until December 31, 2018	$/kW	(0.3831)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	$/kW	(0.9968)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018 Applicable Only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018 Applicable Only for Class B Customers	$/kW	0.0890
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	$/kW	1.5308
Retail Transmission Rate – Network Service Rate	$/kW	2.1025
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	0.9103

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream

TARIFF OF RATES AND CHARGES

Effective Date January 1, 2018

Implementation Date January 1, 2018

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2017-0024

STREET LIGHTING SERVICE CLASSIFICATION

This classification is for roadway lighting with the Municipality. The consumption for this customer is based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Ontario Energy Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per Connection)	$	1.20
Distribution Volumetric Rate	$/kW	6.3791
Low Voltage Service Rate	$/kW	0.1288
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.1116
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	$/kW	(0.1169)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	$/kW	0.0592
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$	0.01
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	$/kW	0.0575
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until December 31, 2018	$/kW	0.5824
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	$/kW	(0.9768)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018 Applicable Only for Non-RPP Customers	$/kWh	0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018 Applicable Only for Class B Customers	$/kW	0.0864
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018 Applicable Only for Non-RPP Customers	$/kW	1.4128
Retail Transmission Rate – Network Service Rate	$/kW	2.7208
Retail Transmission Rate – Line and Transformation Connection Service Rate	$/kW	1.3183

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	$/kWh	0.0032
Capacity Based Recovery (CBR) - Applicable for Class B Customers	$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	$/kWh	0.0003
Standard Supply Service – Administrative Charge (if applicable)	$	0.25

Alectra - PowerStream

TARIFF OF RATES AND CHARGES

Effective Date January 1, 2018

Implementation Date January 1, 2018

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EB-2017-0024

MicroFIT SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Independent Electricity System Operator's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	$	5.40

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	$/kW
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%

SPECIFIC SERVICE CHARGES

APPLICATION

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Customer Administration		
Arrears certificate	$	15.00
Statement of account	$	15.00
Duplicate invoices for previous billing	$	15.00
Request for other billing information	$	15.00
Easement Letter	$	15.00
Income tax letter	$	15.00
Account history	$	15.00
Returned Cheque (plus bank charges)	$	15.00
Legal letter charge	$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	$	30.00
Special meter reads	$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	$	30.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	$	30.00
Disconnect/Reconnect at Meter - during regular hours	$	65.00
Disconnect/Reconnect at Meter - after regular hours	$	185.00

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TARIFF OF RATES AND CHARGES
Effective Date January 1, 2018
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EB-2017-0024

Other

Install/Remove Load Control Device - during regular hours	$	65.00
Install/Remove Load Control Device - after regular hours	$	185.00
Disconnect/Reconnect at Meter - during regular hours	$	65.00
Disconnect/Reconnect at Meter - after regular hours	$	185.00
Disconnect/Reconnect at Pole - during regular hours	$	185.00
Disconnect/Reconnect at Pole - after regular hours	$	415.00
Specific Charge for Access to the Power Poles per pole/year (with the exception of wireless attachments)	$	22.35
Temporary Service install and remove - overhead - no transformer	$	500.00

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Ontario Energy Board, and amendments thereto as

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.		
One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	$	100.00
Monthly Fixed Charge, per retailer	$	20.00
Monthly Variable Charge, per customer, per retailer	$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	$	0.25
Processing fee, per request, applied to the requesting party	$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail		
Settlement Code directly to retailers and customers, if not delivered electronically through the		
Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year	$	no charge
More than twice a year, per request (plus incremental delivery costs)	$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor - Secondary Metered Customer < 5,000 kW	1.0369
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0266
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

INCENTIVE REGULATION MODEL FOR 2018 FILERS

The bill comparisons below must be provided for typical customers and consumption levels. Bill impacts must be provided for residential customers consuming 750 kWh per month and general service customers consuming 2,000 kWh per month and having a monthly demand of less than 50 kW. Include bill comparisons for Non-RPP (retailer) as well. **To assess the combined effects of the shift to fixed rates and other bill impacts associated with changes in the cost of distribution service, applicants are to include a total bill impact for a residential customer at the distributor's 10th consumption percentile (In other words, 10% of a distributor's residential customers consume at or less than this level of consumption on a monthly basis). Refer to page 9 of the Filing Requirements For Electricity Distribution Rate Applications issued July 14, 2016.**

For certain classes where one or more customers have unique consumption and demand patterns and which may be significantly impacted by the proposed rate changes, the distributor must show a typical comparison, and provide an explanation.

Note:
1. For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of February 2017 of $0.1058/kWh (IESO's Monthly Market Report for February 2017, page 22) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact table for the specific class.
2. Please enter the applicable billing determinant (e.g. number of connections or devices) to be applied to the monthly service charge for unmetered rate classes in column N. If the monthly service charge is applied on a per customer basis, enter the number "1". Distributors should provide the number of connections or devices reflective of a typical customer in each class.

Table 1

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	**Units**	**RPP? Non-RPP Retailer? Non-RPP Other?**	**Current Loss Factor**	**Proposed Loss Factor**	**Consumption (kWh)**	**Demand kW (if applicable)**	**RTSR**	**Billing Determinant Applied to Fixed Charge for Unmetered Classes (e.g. # of devices/connections)**
RESIDENTIAL SERVICE CLASSIFICATION	**kWh**	RPP	1.0369	1.0369	750		**N/A**	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	**kWh**	RPP	1.0369	1.0369	2,000		**N/A**	
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0369	1.0369	80,000	250	**DEMAND**	
LARGE USE SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0145	1.0145	2,800,000	7,350	**DEMAND**	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	**kWh**	RPP	1.0369	1.0369	150		**N/A**	1
STANDBY POWER SERVICE CLASSIFICATION	**kW**						**N/A**	
SENTINEL LIGHTING SERVICE CLASSIFICATION	**kW**	RPP	1.0369	1.0369	180	1	**DEMAND**	1
STREET LIGHTING SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0369	1.0369	280	1	**DEMAND**	1
RESIDENTIAL SERVICE CLASSIFICATION (10th consumptio	**kWh**	RPP	1.0369	1.0369	309		**N/A**	
RESIDENTIAL SERVICE CLASSIFICATION (Retailer)		Non-RPP (Retailer)	1.0369	1.0369	750		**N/A**	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION (Retailer)		Non-RPP (Retailer)	1.0369	1.0369	2,000		**N/A**	
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								

Table 2

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	Units	Sub-Total						Total	
		A		B		C		A + B + C	
		$	%	$	%	$	%	$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 0.22	0.8%	$ (1.73)	-5.4%	$ (2.27)	-5.5%	$ (2.39)	-2.1%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - RPP	kWh	$ 3.12	4.8%	$ (1.88)	-2.6%	$ (3.33)	-3.5%	$ (3.50)	-1.2%
GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 41.35	3.5%	$ 100.20	7.4%	$ 37.07	1.5%	$ 41.89	0.3%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ (120.17)	-0.5%	$ (9,148.18)	-37.6%	$ (11,353.18)	-18.9%	$ (12,829.09)	-2.8%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	$ 0.15	1.3%	$ (0.23)	-1.9%	$ (0.32)	-2.4%	$ (0.37)	-1.2%
STANDBY POWER SERVICE CLASSIFICATION -	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
SENTINEL LIGHTING SERVICE CLASSIFICATION - RPP	kW	$ (0.12)	-0.9%	$ 0.05	0.3%	$ (0.14)	-0.8%	$ (0.16)	-0.4%
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 0.72	9.5%	$ 0.94	10.2%	$ 0.68	5.0%	$ 0.77	1.4%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 2.07	9.2%	$ 1.27	5.2%	$ 1.05	3.7%	$ 1.10	1.9%
RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 0.22	0.8%	$ 0.67	2.0%	$ 0.13	0.3%	$ 0.13	0.1%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 3.12	4.8%	$ 4.52	5.8%	$ 3.07	3.1%	$ 3.22	0.9%

Customer Class:	**RESIDENTIAL SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	**Class B**
Consumption	**750**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 18.51	1	$ 18.51	$ 21.63	1	$ 21.63	$ 3.12	16.86%
Distribution Volumetric Rate	$ 0.0130	750	$ 9.75	$ 0.0088	750	$ 6.60	$ (3.15)	-32.31%
Fixed Rate Riders	$ -	1	$ -	$ 0.25	1	$ 0.25	$ 0.25	
Volumetric Rate Riders	$ -	750	$ -	$ -	750	$ -	$ -	
Sub-Total A (excluding pass through)			$ 28.26			$ 28.48	**$ 0.22**	**0.78%**
Line Losses on Cost of Power	$ 0.0822	28	$ 2.27	$ 0.0822	28	$ 2.27	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ -	750	$ -	-$ 0.0026	750	$ (1.95)	$ (1.95)	
GA Rate Riders								
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.97	1	$ 0.97	$ 0.97	1	$ 0.97	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 31.88**			**$ 30.15**	**$ (1.73)**	**-5.43%**
RTSR - Network	$ 0.0082	778	$ 6.38	$ 0.0076	778	$ 5.91	$ (0.47)	-7.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0038	778	$ 2.96	$ 0.0037	778	$ 2.88	$ (0.08)	-2.63%
Sub-Total C - Delivery (including Sub-Total B)			**$ 41.21**			**$ 38.94**	**$ (2.27)**	**-5.52%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
							$ -	
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0950	128	$ 12.11	$ 0.0950	128	$ 12.11	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 106.11**			**$ 103.84**	**$ (2.27)**	**-2.14%**
HST	13%		$ 13.79	13%		$ 13.50	$ (0.30)	-2.14%
8% Provincial Rebate	-8%		$ (8.49)	-8%		$ (8.31)	$ 0.18	-2.14%
Total Bill on TOU			**$ 111.42**			**$ 109.03**	**$ (2.39)**	**-2.14%**

Customer Class:	**GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	**Class B**
Consumption	**2,000**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 28.74	1	$ 28.74	$ 29.00	1	$ 29.00	$ 0.26	0.90%
Distribution Volumetric Rate	$ 0.0183	2000	$ 36.60	$ 0.0185	2000	$ 37.00	$ 0.40	1.09%
Fixed Rate Riders	$ -	1	$ -	$ 0.26	1	$ 0.26	$ 0.26	
Volumetric Rate Riders	$ -	2000	$ -	$ 0.0011	2000	$ 2.20	$ 2.20	
Sub-Total A (excluding pass through)			$ 65.34			$ 68.46	**$ 3.12**	**4.78%**
Line Losses on Cost of Power	$ 0.0822	74	$ 6.06	$ 0.0822	74	$ 6.06	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 0.0002	2,000	$ 0.40	-$ 0.0023	2,000	$ (4.60)	$ (5.00)	-1250.00%
GA Rate Riders								
Low Voltage Service Charge	$ 0.0004	2,000	$ 0.80	$ 0.0004	2,000	$ 0.80	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 1.00	1	$ 1.00	$ 1.00	1	$ 1.00	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 73.60**			**$ 71.72**	**$ (1.88)**	**-2.55%**
RTSR - Network	$ 0.0073	2,074	$ 15.14	$ 0.0067	2,074	$ 13.89	$ (1.24)	-8.22%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0033	2,074	$ 6.84	$ 0.0032	2,074	$ 6.64	$ (0.21)	-3.03%
Sub-Total C - Delivery (including Sub-Total B)			**$ 95.59**			**$ 92.25**	**$ (3.33)**	**-3.49%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,074	$ 7.47	$ 0.0036	2,074	$ 7.47	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,074	$ 0.62	$ 0.0003	2,074	$ 0.62	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ 0.0070	2,000	$ 14.00	$ -	0.00%
							$ -	
TOU - Off Peak	$ 0.0650	1,300	$ 84.50	$ 0.0650	1,300	$ 84.50	$ -	0.00%
TOU - Mid Peak	$ 0.0950	340	$ 32.30	$ 0.0950	340	$ 32.30	$ -	0.00%
TOU - On Peak	$ 0.1320	360	$ 47.52	$ 0.1320	360	$ 47.52	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 282.24**			**$ 278.91**	**$ (3.33)**	**-1.18%**
HST	13%		$ 36.69	13%		$ 36.26	$ (0.43)	-1.18%
8% Provincial Rebate	-8%		$ (22.58)	-8%		$ (22.31)	$ 0.27	-1.18%
Total Bill on TOU			**$ 296.36**			**$ 292.86**	**$ (3.50)**	**-1.18%**

Customer Class:	**GENERAL SERVICE 500 to 4,999 kW SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	**Class B - non-Interval Metered**
Consumption	**80,000**	**kWh**
Demand	**250**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 140.97	1	$ 140.97	$ 142.24	1	$ 142.24	$ 1.27	0.90%
Distribution Volumetric Rate	$ 4.2037	250	$ 1,050.93	$ 4.2415	250	$ 1,060.38	$ 9.45	0.90%
Fixed Rate Riders	$ -	1	$ -	$ 1.28	1	$ 1.28	$ 1.28	
Volumetric Rate Riders	$ -	250	$ -	$ 0.1174	250	$ 29.35	$ 29.35	
Sub-Total A (excluding pass through)			$ 1,191.90			$ 1,233.25	**$ 41.35**	**3.47%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	$ 0.4884	250	$ 122.10	$ 0.5958	250	$ 148.95	$ 26.85	21.99%
GA Rate Riders				$ 0.0004	80,000	$ 32.00	$ 32.00	
Low Voltage Service Charge	$ 0.1589	250	$ 39.73	$ 0.1589	250	$ 39.73	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 1,353.72**			**$ 1,453.92**	**$ 100.20**	**7.40%**
RTSR - Network	$ 2.9268	250	$ 731.70	$ 2.7058	250	$ 676.45	$ (55.25)	-7.55%
RTSR - Connection and/or Line and Transformation Connection	$ 1.2618	250	$ 315.45	$ 1.2303	250	$ 307.58	$ (7.88)	-2.50%
Sub-Total C - Delivery (including Sub-Total B)			**$ 2,400.87**			**$ 2,437.95**	**$ 37.07**	**1.54%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	82,952	$ 298.63	$ 0.0036	82,952	$ 298.63	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	82,952	$ 24.89	$ 0.0003	82,952	$ 24.89	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	80,000	$ 560.00	$ 0.0070	80,000	$ 560.00	$ -	0.00%
							$ -	
Average IESO Wholesale Market Price	$ 0.1101	82,952	$ 9,133.02	$ 0.1101	82,952	$ 9,133.02	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 12,417.65**			**$ 12,454.72**	**$ 37.07**	**0.30%**
HST	13%		$ 1,614.29	13%		$ 1,619.11	$ 4.82	0.30%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 14,031.94**			**$ 14,073.84**	**$ 41.89**	**0.30%**

Customer Class:	**LARGE USE SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	**Class A**
Consumption	**2,800,000**	**kWh**
Demand	**7,350**	**kW**
Current Loss Factor	**1.0145**	
Proposed/Approved Loss Factor	**1.0145**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 6,073.68	1	$ 6,073.68	$ 6,128.34	1	$ 6,128.34	$ 54.66	0.90%
Distribution Volumetric Rate	$ 2.2421	7350	$ 16,479.44	$ 2.2623	7350	$ 16,627.91	$ 148.47	0.90%
Fixed Rate Riders	$ -	1	$ -	$ 55.22	1	$ 55.22	$ 55.22	
Volumetric Rate Riders	$ -	7350	$ -	-$ 0.0515	7350	$ (378.53)	$ (378.53)	
Sub-Total A (excluding pass through)			$ 22,553.12			$ 22,432.94	**$ (120.17)**	**-0.53%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	$ 0.0765	7,350	$ 562.28	-$ 1.1518	7,350	$ (8,465.73)	$ (9,028.01)	-1605.62%
GA Rate Riders				$ -	2,800,000	$ -	$ -	
Low Voltage Service Charge	$ 0.1630	7,350	$ 1,198.05	$ 0.1630	7,350	$ 1,198.05	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 24,313.44**			**$ 15,165.26**	**$ (9,148.18)**	**-37.63%**
RTSR - Network	$ 3.5361	7,350	$ 25,990.34	$ 3.2690	7,350	$ 24,027.15	$ (1,963.19)	-7.55%
RTSR - Connection and/or Line and Transformation Connection	$ 1.3178	7,350	$ 9,685.83	$ 1.2849	7,350	$ 9,444.02	$ (241.82)	-2.50%
Sub-Total C - Delivery (including Sub-Total B)			**$ 59,989.61**			**$ 48,636.43**	**$ (11,353.18)**	**-18.93%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,840,600	$ 10,226.16	$ 0.0036	2,840,600	$ 10,226.16	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,840,600	$ 852.18	$ 0.0003	2,840,600	$ 852.18	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	2,800,000	$ 19,600.00	$ 0.0070	2,800,000	$ 19,600.00	$ -	0.00%
							$ -	
Average IESO Wholesale Market Price	$ 0.1101	2,840,600	$ 312,750.06	$ 0.1101	2,840,600	$ 312,750.06	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 403,418.26**			**$ 392,065.08**	**$ (11,353.18)**	**-2.81%**
HST	13%		$ 52,444.37	13%		$ 50,968.46	$ (1,475.91)	-2.81%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 455,862.63**			**$ 443,033.53**	**$ (12,829.09)**	**-2.81%**

Customer Class:	**UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	**Class B**
Consumption	**150**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 8.60	1	$ 8.60	$ 8.68	1	$ 8.68	$ 0.08	0.93%
Distribution Volumetric Rate	$ 0.0195	150	$ 2.93	$ 0.0197	150	$ 2.96	$ 0.03	1.03%
Fixed Rate Riders	$ -	1	$ -	$ 0.08	1	$ 0.08	$ 0.08	
Volumetric Rate Riders	$ -	150	$ -	-$ 0.0003	150	$ (0.05)	$ (0.05)	
Sub-Total A (excluding pass through)			$ 11.53			$ 11.67	**$ 0.15**	**1.26%**
Line Losses on Cost of Power	$ 0.0822	6	$ 0.45	$ 0.0822	6	$ 0.45	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 0.0002	150	$ 0.03	-$ 0.0023	150	$ (0.35)	$ (0.38)	-1250.00%
GA Rate Riders	$ -	150	$ -	$ -	150	$ -	$ -	
Low Voltage Service Charge	$ 0.0005	150	$ 0.08	$ 0.0005	150	$ 0.08	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders		1	$ -		1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 12.08**			**$ 11.85**	**$ (0.23)**	**-1.90%**
RTSR - Network	$ 0.0069	156	$ 1.07	$ 0.0064	156	$ 1.00	$ (0.08)	-7.25%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0035	156	$ 0.54	$ 0.0034	156	$ 0.53	$ (0.02)	-2.86%
Sub-Total C - Delivery (including Sub-Total B)			**$ 13.70**			**$ 13.38**	**$ (0.32)**	**-2.36%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	156	$ 0.56	$ 0.0036	156	$ 0.56	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	156	$ 0.05	$ 0.0003	156	$ 0.05	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	150	$ 1.05	$ 0.0070	150	$ 1.05	$ -	0.00%
							$ -	
TOU - Off Peak	$ 0.0650	98	$ 6.34	$ 0.0650	98	$ 6.34	$ -	0.00%
TOU - Mid Peak	$ 0.0950	26	$ 2.42	$ 0.0950	26	$ 2.42	$ -	0.00%
TOU - On Peak	$ 0.1320	27	$ 3.56	$ 0.1320	27	$ 3.56	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 27.93**			**$ 27.61**	**$ (0.32)**	**-1.16%**
HST	13%		$ 3.63	13%		$ 3.59	$ (0.04)	-1.16%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on TOU			**$ 31.56**			**$ 31.20**	**$ (0.37)**	**-1.16%**

Customer Class:	**SENTINEL LIGHTING SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	
Consumption	**180**	**kWh**
Demand	**1**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 4.19	1	$ 4.19	$ 4.23	1	$ 4.23	$ 0.04	0.95%
Distribution Volumetric Rate	$ 9.8694	1	$ 9.87	$ 9.9582	1	$ 9.96	$ 0.09	0.90%
Fixed Rate Riders	$ -	1	$ -	$ 0.04	1	$ 0.04	$ 0.04	
Volumetric Rate Riders	$ -	1	$ -	-$ 0.2934	1	$ (0.29)	$ (0.29)	
Sub-Total A (excluding pass through)			$ 14.06			$ 13.93	**$ (0.12)**	**-0.89%**
Line Losses on Cost of Power	$ 0.0822	7	$ 0.55	$ 0.0822	7	$ 0.55	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 0.5054	1	$ 0.51	$ 0.6814	1	$ 0.68	$ 0.18	34.82%
GA Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Low Voltage Service Charge	$ 0.1170	1	$ 0.12	$ 0.1170	1	$ 0.12	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 15.23**			**$ 15.28**	**$ 0.05**	**0.34%**
RTSR - Network	$ 2.2743	1	$ 2.27	$ 2.1025	1	$ 2.10	$ (0.17)	-7.55%
RTSR - Connection and/or Line and Transformation Connection	$ 0.9336	1	$ 0.93	$ 0.9103	1	$ 0.91	$ (0.02)	-2.50%
Sub-Total C - Delivery (including Sub-Total B)			**$ 18.44**			**$ 18.29**	**$ (0.14)**	**-0.78%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	187	$ 0.67	$ 0.0036	187	$ 0.67	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	187	$ 0.06	$ 0.0003	187	$ 0.06	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	180	$ 1.26	$ 0.0070	180	$ 1.26	$ -	0.00%
							$ -	
TOU - Off Peak	$ 0.0650	117	$ 7.61	$ 0.0650	117	$ 7.61	$ -	0.00%
TOU - Mid Peak	$ 0.0950	31	$ 2.91	$ 0.0950	31	$ 2.91	$ -	0.00%
TOU - On Peak	$ 0.1320	32	$ 4.28	$ 0.1320	32	$ 4.28	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 35.46**			**$ 35.32**	**$ (0.14)**	**-0.41%**
HST	13%		$ 4.61	13%		$ 4.59	$ (0.02)	-0.41%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on TOU			**$ 40.07**			**$ 39.91**	**$ (0.16)**	**-0.41%**

Customer Class:	**STREET LIGHTING SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	Class B
Consumption	**280**	**kWh**
Demand	**1**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 1.19	1	$ 1.19	$ 1.20	1	$ 1.20	$ 0.01	0.84%
Distribution Volumetric Rate	$ 6.3222	1	$ 6.32	$ 6.3791	1	$ 6.38	$ 0.06	0.90%
Fixed Rate Riders	$ -	1	$ -	$ 0.01	1	$ 0.01	$ 0.01	
Volumetric Rate Riders	$ -	1	$ -	$ 0.6399	1	$ 0.64	$ 0.64	
Sub-Total A (excluding pass through)			$ 7.51			$ 8.23	**$ 0.72**	**9.54%**
Line Losses on Cost of Power	$ 0.1101	10	$ 1.14	$ 0.1101	10	$ 1.14	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 0.4663	1	$ 0.47	$ 0.5763	1	$ 0.58	$ 0.11	23.59%
GA Rate Riders	$ -		$ -	$ 0.0004	280	$ 0.11	$ 0.11	
Low Voltage Service Charge	$ 0.1288	1	$ 0.13	$ 0.1288	1	$ 0.13	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 9.24**			**$ 10.18**	**$ 0.94**	**10.15%**
RTSR - Network	$ 2.9431	1	$ 2.94	$ 2.7208	1	$ 2.72	$ (0.22)	-7.55%
RTSR - Connection and/or Line and Transformation Connection	$ 1.3520	1	$ 1.35	$ 1.3183	1	$ 1.32	$ (0.03)	-2.49%
Sub-Total C - Delivery (including Sub-Total B)			**$ 13.54**			**$ 14.22**	**$ 0.68**	**5.04%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	290	$ 1.05	$ 0.0036	290	$ 1.05	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	290	$ 0.09	$ 0.0003	290	$ 0.09	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	280	$ 1.96	$ 0.0070	280	$ 1.96	$ -	0.00%
							$ -	
Average IESO Wholesale Market Price	$ 0.1101	280	$ 30.83	$ 0.1101	280	$ 30.83	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 47.71**			**$ 48.39**	**$ 0.68**	**1.43%**
HST	13%		$ 6.20	13%		$ 6.29	$ 0.09	1.43%
8% Provincial Rebate	0%		$ -	0%		$ -	$ -	
Total Bill on Average IESO Wholesale Market Price			**$ 53.91**			**$ 54.68**	**$ 0.77**	**1.43%**

Customer Class:	**RESIDENTIAL SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	10th Percentile
Consumption	**309**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 18.51	1	$ 18.51	$ 21.63	1	$ 21.63	$ 3.12	16.86%
Distribution Volumetric Rate	$ 0.0130	308.871	$ 4.02	$ 0.0088	308.871	$ 2.72	$ (1.30)	-32.31%
Fixed Rate Riders	$ -	1	$ -	$ 0.25	1	$ 0.25	$ 0.25	
Volumetric Rate Riders	$ -	308.871	$ -	$ -	308.871	$ -	$ -	
Sub-Total A (excluding pass through)			$ 22.53			$ 24.60	**$ 2.07**	**9.20%**
Line Losses on Cost of Power	$ 0.0822	11	$ 0.94	$ 0.0822	11	$ 0.94	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ -	309	$ -	-$ 0.0026	309	$ (0.80)	$ (0.80)	
GA Rate Riders	$ -	309	$ -	$ -	309	$ -	$ -	
Low Voltage Service Charge	$ 0.0005	309	$ 0.15	$ 0.0005	309	$ 0.15	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.97	1	$ 0.97	$ 0.97	1	$ 0.97	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 24.59**			**$ 25.86**	**$ 1.27**	**5.16%**
RTSR - Network	$ 0.0082	320	$ 2.63	$ 0.0076	320	$ 2.43	$ (0.19)	-7.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0038	320	$ 1.22	$ 0.0037	320	$ 1.18	$ (0.03)	-2.63%
Sub-Total C - Delivery (including Sub-Total B)			**$ 28.43**			**$ 29.47**	**$ 1.05**	**3.68%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	320	$ 1.15	$ 0.0036	320	$ 1.15	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	320	$ 0.10	$ 0.0003	320	$ 0.10	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
							$ -	
TOU - Off Peak	$ 0.0650	201	$ 13.05	$ 0.0650	201	$ 13.05	$ -	0.00%
TOU - Mid Peak	$ 0.0950	53	$ 4.99	$ 0.0950	53	$ 4.99	$ -	0.00%
TOU - On Peak	$ 0.1320	56	$ 7.34	$ 0.1320	56	$ 7.34	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 55.31**			**$ 56.35**	**$ 1.05**	**1.89%**
HST	13%		$ 7.19	13%		$ 7.33	$ 0.14	1.89%
8% Provincial Rebate	-8%		$ (4.42)	-8%		$ (4.51)	$ (0.08)	1.89%
Total Bill on TOU			**$ 58.07**			**$ 59.17**	**$ 1.10**	**1.89%**

Customer Class:	**RESIDENTIAL SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Retailer)**	
Consumption	**750**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 18.51	1	$ 18.51	$ 21.63	1	$ 21.63	$ 3.12	16.86%
Distribution Volumetric Rate	$ 0.0130	750	$ 9.75	$ 0.0088	750	$ 6.60	$ (3.15)	-32.31%
Fixed Rate Riders	$ -	1	$ -	$ 0.25	1	$ 0.25	$ 0.25	
Volumetric Rate Riders	$ -	750	$ -	$ -	750	$ -	$ -	
Sub-Total A (excluding pass through)			$ 28.26			$ 28.48	**$ 0.22**	**0.78%**
Line Losses on Cost of Power	$ 0.1101	28	$ 3.05	$ 0.1101	28	$ 3.05	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ -	750	$ -	-$ 0.0026	750	$ (1.95)	$ (1.95)	
GA Rate Riders	$ 0.0012	750	$ 0.90	$ 0.0044	750	$ 3.30	$ 2.40	266.67%
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.97	1	$ 0.97	$ 0.97	1	$ 0.97	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 33.55**			**$ 34.22**	**$ 0.67**	**2.00%**
RTSR - Network	$ 0.0082	778	$ 6.38	$ 0.0076	778	$ 5.91	$ (0.47)	-7.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0038	778	$ 2.96	$ 0.0037	778	$ 2.88	$ (0.08)	-2.63%
Sub-Total C - Delivery (including Sub-Total B)			**$ 42.88**			**$ 43.01**	**$ 0.13**	**0.29%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)								
							$ -	
Non-RPP Retailer Avg. Price	$ 0.1101	750	$ 82.58	$ 0.1101	750	$ 82.58	$ -	0.00%
Total Bill on Non-RPP Avg. Price			**$ 128.49**			**$ 128.62**	**$ 0.13**	**0.10%**
HST	13%		$ 16.70	13%		$ 16.72	$ 0.02	0.10%
8% Provincial Rebate	-8%		$ (10.28)	-8%		$ (10.29)	$ (0.01)	0.10%
Total Bill on Non-RPP Avg. Price			**$ 134.92**			**$ 135.05**	**$ 0.13**	**0.10%**

Customer Class:	**GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Retailer)**	
Consumption	**2,000**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 28.74	1	$ 28.74	$ 29.00	1	$ 29.00	$ 0.26	0.90%
Distribution Volumetric Rate	$ 0.0183	2000	$ 36.60	$ 0.0185	2000	$ 37.00	$ 0.40	1.09%
Fixed Rate Riders	$ -	1	$ -	$ 0.26	1	$ 0.26	$ 0.26	
Volumetric Rate Riders	$ -	2000	$ -	$ 0.0011	2000	$ 2.20	$ 2.20	
Sub-Total A (excluding pass through)			$ 65.34			$ 68.46	**$ 3.12**	**4.78%**
Line Losses on Cost of Power	$ 0.1101	74	$ 8.13	$ 0.1101	74	$ 8.13	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 0.0002	2,000	$ 0.40	-$ 0.0023	2,000	$ (4.60)	$ (5.00)	-1250.00%
GA Rate Riders	$ 0.0012	2,000	$ 2.40	$ 0.0044	2,000	$ 8.80	$ 6.40	266.67%
Low Voltage Service Charge	$ 0.0004	2,000	$ 0.80	$ 0.0004	2,000	$ 0.80	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 1.00	1	$ 1.00	$ 1.00	1	$ 1.00	$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			**$ 78.07**			**$ 82.59**	**$ 4.52**	**5.79%**
RTSR - Network	$ 0.0073	2,074	$ 15.14	$ 0.0067	2,074	$ 13.89	$ (1.24)	-8.22%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0033	2,074	$ 6.84	$ 0.0032	2,074	$ 6.64	$ (0.21)	-3.03%
Sub-Total C - Delivery (including Sub-Total B)			**$ 100.05**			**$ 103.12**	**$ 3.07**	**3.07%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,074	$ 7.47	$ 0.0036	2,074	$ 7.47	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,074	$ 0.62	$ 0.0003	2,074	$ 0.62	$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ 0.0070	2,000	$ 14.00	$ -	0.00%
							$ -	
Non-RPP Retailer Avg. Price	$ 0.1101	2,000	$ 220.20	$ 0.1101	2,000	$ 220.20	$ -	0.00%
Total Bill on Non-RPP Avg. Price			**$ 342.34**			**$ 345.40**	**$ 3.07**	**0.90%**
HST	13%		$ 44.50	13%		$ 44.90	$ 0.40	0.90%
8% Provincial Rebate	-8%		$ (27.39)	-8%		$ (27.63)	$ (0.25)	0.90%
Total Bill on Non-RPP Avg. Price			**$ 359.45**			**$ 362.67**	**$ 3.22**	**0.90%**

Alectra - PowerStream
Rates

MONTHLY RATES AND CHARGES - DELIVERY COMPONENT **0.79**

2		3	4	5	6	7
Description	**Effective until**	**Type**	**Customers**	**Billing Determinant**	**2017**	**2018**
RESIDENTIAL						
Service Charge		Rate		$	18.51	21.63
Distribution Volumetric Rate		Rate		$/kWh	0.0130	0.0088
Low Voltage Service Rate		Rate		$/kWh	0.0005	0.0005
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance)	September 30, 2017	Rate Rider		$	(0.10)	0.00
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance)	September 30, 2017	Rate Rider		$	(0.04)	0.00
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$	0.12	0.12
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$	0.06	0.06
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kWh	0.0003	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kWh	(0.0003)	(0.0003)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	**December 31, 2017**	**Rate Rider**	**non_RPP**	**$/kWh**	**0.0012**	**0.0000**
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$		0.25
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until Decem	December 31, 2018	Rate Rider		$/kWh		0.0000
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kWh		(0.0028)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2018	Rate Rider	non-RPP			0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018				$/kWh		
Applicable Only for Class B Customers	December 31, 2018	Rate Rider	Class B			0.0002
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider	non_RPP	$/kWh		0.0040
Retail Transmission Rate – Network Service Rate		Rate		$/kWh	0.0082	0.0076
Retail Transmission Rate – Line and Transformation Connection Service Rate		Rate		$/kWh	0.0038	0.0037
GENERAL SERVICE LESS THAN 50 KW						
Service Charge		Rate		$	28.74	29.00
Distribution Volumetric Rate		Rate		$/kWh	0.0183	0.0185
Low Voltage Service Rate		Rate		$/kWh	0.0004	0.0004
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kWh	0.0003	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kWh	(0.0003)	(0.0003)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	**December 31, 2017**	**Rate Rider**	**non_RPP**	**$/kWh**	**0.0012**	**0.0000**
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kWh	0.0002	0.0002
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance)	September 30, 2017	Rate Rider		$/kWh	0.0001	0.0000
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance)	September 30, 2017	Rate Rider		$	(0.17)	0.00
Rate Rider for Recovery of Stranded Meter Assets (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$	0.21	0.21
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$		0.26
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$/kWh		0.0002
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until Decem	December 31, 2018	Rate Rider		$/kWh		0.0009
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kWh		(0.0027)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2018	Rate Rider	non-RPP			0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018				$/kWh		
Applicable Only for Class B Customers	December 31, 2018	Rate Rider	Class B			0.0002
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider	non_RPP	$/kWh		0.0040
Retail Transmission Rate - Network Service Rate		Rate		$/kWh	0.0073	0.0067
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kWh	0.0033	0.0032
GENERAL SERVICE GREATER THAN 50 KW						
Service Charge		Rate		$	140.97	142.24
Distribution Volumetric Rate		Rate		$/kW	4.2037	4.2415
Low Voltage Service Rate		Rate		$/kW	0.1589	0.1589
Transformer Discount		Rate		$/kW	(0.6000)	(0.6000)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	0.1169	0.1169
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	(0.1224)	(0.1224)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	**December 31, 2017**	**Rate Rider**	**non_RPP**	**$/kW**	**0.4319**	**0.0000**
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	0.0620	0.0620
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance)	September 30, 2017	Rate Rider		$/kW	(0.0196)	0.0000
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance)	September 30, 2017	Rate Rider		$	(4.81)	0.00
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$		1.28
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$/kW		0.0382
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until Decem	December 31, 2018	Rate Rider		$/kW		0.0792
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kW		0.0182
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018				$/kWh		
Applicable Only for Non-RPP Customers non-Interval Metered	December 31, 2018	Rate Rider	non-RPP			0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018				$/kW		
Applicable Only for Class B Customers	December 31, 2018	Rate Rider	Class B			0.0900
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018						
Applicable only for Non-Wholesale Market Participants	December 31, 2018	Rate Rider		$/kW		(1.0567)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018				$/kW		
Applicable only to non-RPP non-Interval Metered Customers	September 30, 2018	Rate Rider	non_RPP			1.4878
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018				$/kW		
Applicable only for Class B Interval Metered Customers at December 31, 2016	September 30, 2018	Rate Rider	non_RPP			(0.7198)
Retail Transmission Rate - Network Service Rate		Rate		$/kW	2.9268	2.7058
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kW	1.2618	1.2303
Retail Transmission Rate - Network Service Rate		Rate		$/kW	3.0681	2.8364
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kW	1.3652	1.3312

LARGE USE						
Service Charge		Rate		$	6,073.68	6,128.34
Distribution Volumetric Rate		Rate		$/kW	2.2421	2.2623
Low Voltage Service Rate		Rate		$/kW	0.1630	0.1630
Transformer Discount		Rate		$/kW	(0.6000)	(0.6000)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	0.1584	0.1584
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	(0.1659)	(0.1659)
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	0.0840	0.0840
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance)	September 30, 2017	Rate Rider		$/kW	(0.0356)	0.0000
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance)	September 30, 2017	Rate Rider		$	(199.61)	0.00
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$		55.22
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$/kW		0.0204
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until Decem	December 31, 2018	Rate Rider		$/kW		(0.0719)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kW		(1.2283)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2018	Rate Rider	non-RPP			0.0000
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018				$/kW		
Applicable Only for Class B Customers	December 31, 2018	Rate Rider	Class B			0.0000
Retail Transmission Rate - Network Service Rate		Rate		$/kW	3.5361	3.2690
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kW	1.3178	1.2849
UNMETERED SCATTERED LOAD						
Service Charge		Rate		$	8.60	8.68
Distribution Volumetric Rate		Rate		$/kWh	0.0195	0.0197
Low Voltage Service Rate		Rate		$/kWh	0.0005	0.0005
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kWh	0.0003	0.0003
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kWh	(0.0003)	(0.0003)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	**December 31, 2017**	**Rate Rider**	**non_RPP**	**$/kWh**	**0.0012**	**0.0000**
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kWh	0.0002	0.0002
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance)	September 30, 2017	Rate Rider		$/kWh	(0.0002)	0.0000
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance)	September 30, 2017	Rate Rider		$	(0.02)	0.00
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$		0.08
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$/kWh		0.0002
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until Decem	December 31, 2018	Rate Rider		$/kWh		(0.0005)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kWh		(0.0027)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2018	Rate Rider	non-RPP			0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018				$/kWh		
Applicable Only for Class B Customers	December 31, 2018	Rate Rider	Class B			0.0002
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider	non_RPP	$/kWh		0.0040
Retail Transmission Rate - Network Service Rate		Rate		$/kWh	0.0069	0.0064
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kWh	0.0035	0.0034
SENTINEL						
Service Charge (per Connection)		Rate		$	4.19	4.23
Distribution Volumetric Rate		Rate		$/kW	9.8694	9.9582
Low Voltage Service Rate		Rate		$/kW	0.1170	0.1170
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	0.1210	0.1210
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	(0.1267)	(0.1267)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	**December 31, 2017**	**Rate Rider**	**non_RPP**	**$/kW**	**0.4470**	**0.0000**
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	0.0641	0.0641
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance)	September 30, 2017	Rate Rider		$/kW	(0.1678)	0.0000
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance)	September 30, 2017	Rate Rider		$	(0.01)	0.00
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$		0.04
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$/kW		0.0897
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until Decem	December 31, 2018	Rate Rider		$/kW		(0.3831)
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kW		(0.9968)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2018	Rate Rider	non-RPP			0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018				$/kW		
Applicable Only for Class B Customers	December 31, 2018	Rate Rider	Class B			0.0890
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider	non_RPP	$/kW		1.5308
Retail Transmission Rate - Network Service Rate		Rate		$/kW	2.2743	2.1025
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kW	0.9336	0.9103
STREET LIGHTING						
Service Charge (per Connection)		Rate		$	1.19	1.20
Distribution Volumetric Rate		Rate		$/kW	6.3222	6.3791
Low Voltage Service Rate		Rate		$/kW	0.1288	0.1288
Rate Rider for Disposition of Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	0.1116	0.1116
Rate Rider for Disposition of Deferral/Variance Account – Power (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	(0.1169)	(0.1169)
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018	**December 31, 2017**	**Rate Rider**	**non_RPP**	**$/kW**	**0.4124**	**0.0000**
Rate Rider for Disposition of Group 2 Deferral/Variance Accounts (2016) – effective until September 30, 2018	September 30, 2018	Rate Rider		$/kW	0.0592	0.0592
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2013 balance)	September 30, 2017	Rate Rider		$/kW	(0.1455)	0.0000
Rate Rider for Disposition of Smart Grid True-up Variance Account (2014 balance)	September 30, 2017	Rate Rider		$	0.0000	0.00
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$		0.01
Rate Rider for Incremental Capital Module (ICM) - effective until the date of the next cost of service based rate order	next COS	Rate Rider		$/kW		0.0575
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (2014-15 balances) - effective until Decem	December 31, 2018	Rate Rider		$/kW		0.5824
Rate Rider for Disposition of Deferral/Variance Accounts (2018) - effective until December 31, 2018	December 31, 2018	Rate Rider		$/kW		(0.9768)
Rate Rider for Disposition of Global Adjustment Account (2018) – effective until December 31, 2018				$/kWh		
Applicable Only for Non-RPP Customers	December 31, 2018	Rate Rider	non-RPP			0.0004
Rate Rider for Disposition of Capacity Based Recovery Account (2018) - effective until December 31, 2018				$/kW		
Applicable Only for Class B Customers	December 31, 2018	Rate Rider	Class B			0.0864
Rate Rider for Disposition of Global Adjustment Account (2016) – effective until September 30, 2018				$/kW		
Applicable Only for Non-RPP Customers	September 30, 2018	Rate Rider	non_RPP			1.4128
Retail Transmission Rate - Network Service Rate		Rate		$/kWh	2.9431	2.7208
Retail Transmission Rate - Line and Transformation Connection Service Rate		Rate		$/kWh	1.3520	1.3183

POWERSTREAM Rate Zone

Distribution Bill Impacts				
Customer Class	Billing Units	Average Monthly Volume	2018 vs. 2017	
			$	%
Residential	kWh	750	$ 0.22	0.8%
GS<50	kWh	2,000	$ 3.12	4.8%
GS>50	kW	250	$ 41.35	3.5%
Large User	kW	7,350	$ (120.17)	(0.5)%
Street Lighting	kW	1	$ 0.72	9.5%

Table excludes the impact of HST (13%) & Provincial Rebate (8%)

Distribution Bill and All Rate Rider Bill Impacts				
Customer Class	Billing Units	Average Monthly Volume	2018 vs. 2017	
			$	%
Residential	kWh	750	$ (1.73)	(5.4)%
GS<50	kWh	2,000	$ (1.88)	(2.6)%
GS>50	kW	250	$ 100.20	7.4%
Large User	kW	7,350	$ (9,148.18)	(37.6)%
Street Lighting	kW	1	$ 0.94	10.2%

Table excludes the impact of HST (13%) & Provincial Rebate (8%)

Total Bill Impacts				
Customer Class	Billing Units	Average Monthly Volume	2018 vs. 2017	
			$	%
Residential	kWh	750	$ (2.27)	(2.1)%
GS<50	kWh	2,000	$ (3.33)	(1.2)%
GS>50	kW	250	$ 37.07	0.3%
Large User	kW	7,350	$ (11,353.18)	(2.8)%
Street Lighting	kW	1	$ 0.68	1.4%

Table excludes the impact of HST (13%) & Provincial Rebate (8%)

Total Bill Impacts including HST				
Customer Class	Billing Units	Average Monthly Volume	2018 vs. 2017 after 8% rebate	
			$	%
Residential	kWh	750	$ (2.39)	(2.1)%
GS<50	kWh	2,000	$ (3.50)	(1.2)%
GS>50	kW	250	$ 41.89	0.3%
Large User	kW	7,350	$ (12,829.09)	(2.8)%
Street Lighting	kW	1	$ 0.77	1.4%

Ontario Energy Board

Incentive Regulation Model for 2018 Filers

The bill comparisons below must be provided for typical customers and consumption levels. Bill impacts must be provided for residential customers consuming 750 kWh per month and general service customers consuming 2,000 kWh per month and having a monthly demand of less than 50 kW. Include bill comparisons for Non-RPP (retailer) as well. **To assess the combined effects of the shift to fixed rates and other bill impacts associated with changes in the cost of distribution service, applicants are to include a total bill impact for a residential customer at the distributor's 10th consumption percentile (In other words, 10% of a distributor's residential customers consume at or less than this level of consumption on a monthly basis). Refer to section 3.2.3 of the Chapter 3 Filing Requirements For Electricity Distribution Rate Applications.**

For certain classes where one or more customers have unique consumption and demand patterns and which may be significantly impacted by the proposed rate changes, the distributor must show a typical comparison, and provide an explanation.

Note:
1. For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of May 2017 of $0.1101/kWh (IESO's Monthly Market Report for May 2017, page 22) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact table for the specific class.
2. Please enter the applicable billing determinant (e.g. number of connections or devices) to be applied to the monthly service charge for unmetered rate classes in column N. If the monthly service charge is applied on a per customer basis, enter the number "1". Distributors should provide the number of connections or devices reflective of a typical customer in each class.

Note that cells with the highlighted color shown to the left indicate quantities that are loss adjusted.

Table 1

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	**Units**	**RPP? Non-RPP Retailer? Non-RPP Other?**	**Current Loss Factor** (eg: 1.0351)	**Proposed Loss Factor**	**Consumption (kWh)**	**Demand kW (if applicable)**	**RTSR Demand or Demand-Interval?**	**Billing Determinant Applied to Fixed Charge for Unmetered Classes (e.g. # of devices/connections).**
RESIDENTIAL SERVICE CLASSIFICATION	**kWh**	RPP	1.0369	1.0369	750		N/A	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	**kWh**	RPP	1.0369	1.0369	2,000		N/A	
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0369	1.0369	80,000	250	DEMAND	
LARGE USE SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0145	1.0145	2,800,000	7,350	DEMAND	
STANDBY POWER SERVICE CLASSIFICATION	**kW**						DEMAND	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	**kWh**	RPP	1.0369	1.0369	150		N/A	1
SENTINEL LIGHTING SERVICE CLASSIFICATION	**kW**	RPP	1.0369	1.0369	180	1	DEMAND	1
STREET LIGHTING SERVICE CLASSIFICATION	**kW**	Non-RPP (Other)	1.0369	1.0369	280	1	DEMAND	1
RESIDENTIAL SERVICE CLASSIFICATION 10th percentile consumption	**kWh**	RPP	1.0369	1.0369	309		N/A	
RESIDENTIAL SERVICE CLASSIFICATION	**kWh**	Non-RPP (Retailer)	1.0369	1.0369	750		N/A	
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	**kWh**	Non-RPP (Retailer)	1.0369	1.0369	2,000		N/A	
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								

Table 2

RATE CLASSES / CATEGORIES *(eg: Residential TOU, Residential Retailer)*	Units	Sub-Total A		Sub-Total B		Sub-Total C		Total A + B + C	
		$	%	$	%	$	%	$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 0.37	1.3%	$ (1.58)	-5.0%	$ (2.12)	-5.2%	$ (2.23)	-2.0%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - RPP	kWh	$ 3.54	5.4%	$ (1.46)	-2.0%	$ (2.91)	-3.0%	$ (3.05)	-1.0%
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 49.72	4.2%	$ 216.52	16.0%	$ 153.40	6.4%	$ 173.34	1.2%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 37.66	0.2%	$ (8,991.08)	-37.0%	$ (11,196.08)	-18.7%	$ (12,651.57)	-2.8%
STANDBY POWER SERVICE CLASSIFICATION -	kW	$ -	0.0%	$ -	0.0%	$ -	0.0%	$ -	0.0%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	$ 0.22	1.9%	$ (0.15)	-1.3%	$ (0.25)	-1.8%	$ (0.28)	-0.9%
SENTINEL LIGHTING SERVICE CLASSIFICATION - RPP	kW	$ (0.03)	-0.2%	$ 0.60	3.9%	$ 0.40	2.2%	$ 0.46	1.1%
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kW	$ 1.04	13.8%	$ 1.67	18.1%	$ 1.42	10.5%	$ 1.60	3.0%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	$ 2.22	9.9%	$ 1.42	5.8%	$ 1.20	4.2%	$ 1.26	2.2%
RESIDENTIAL SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 0.37	1.3%	$ (2.18)	-6.5%	$ (2.72)	-6.4%	$ (3.08)	-2.1%
GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION - Non-RPP (Retailer)	kWh	$ 3.54	5.4%	$ (3.06)	-3.9%	$ (4.51)	-4.5%	$ (5.10)	-1.3%

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	
Consumption	750	kWh
Demand	-	kW
Current Loss Factor	1.0369	
Proposed/Approved Loss Factor	1.0369	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 18.51	1	$ 18.51	$ 21.78	1	$ 21.78	$ 3.27	17.67%
Distribution Volumetric Rate	$ 0.0130	750	$ 9.75	$ 0.0088	750	$ 6.60	$ (3.15)	-32.31%
Fixed Rate Riders	$ -	1	$ -	$ 0.25	1	$ 0.25	$ 0.25	
Volumetric Rate Riders	$ -	750	$ -	$ 0.0000	750	$ 0.00	$ 0.00	
Sub-Total A (excluding pass through)			**$ 28.26**			**$ 28.63**	**$ 0.37**	**1.31%**
Line Losses on Cost of Power	$ 0.0822	28	$ 2.27	$ 0.0822	28	$ 2.27	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ -	750	$ -	-$ 0.0028	750	$ (2.10)	$ (2.10)	
CBR Class B Rate Riders	$ -	750	$ -	$ 0.0002	750	$ 0.15	$ 0.15	
GA Rate Riders	$ -	750	$ -	$ -	750	$ -	$ -	
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.97	1	$ 0.97	$ 0.97	1	$ 0.97	$ -	0.00%
Additional Volumetric Rate Riders (Sheet 18)		750	$ -	$ -	750	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 31.88**			**$ 30.30**	**$ (1.58)**	**-4.95%**
RTSR - Network	$ 0.0082	778	$ 6.38	$ 0.0076	778	$ 5.91	$ (0.47)	-7.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0038	778	$ 2.96	$ 0.0037	778	$ 2.88	$ (0.08)	-2.63%
Sub-Total C - Delivery (including Sub-Total B)			**$ 41.21**			**$ 39.09**	**$ (2.12)**	**-5.15%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
TOU - Off Peak	$ 0.0650	488	$ 31.69	$ 0.0650	488	$ 31.69	$ -	0.00%
TOU - Mid Peak	$ 0.0950	128	$ 12.11	$ 0.0950	128	$ 12.11	$ -	0.00%
TOU - On Peak	$ 0.1320	135	$ 17.82	$ 0.1320	135	$ 17.82	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 106.11**			**$ 103.99**	**$ (2.12)**	**-2.00%**
HST	13%		$ 13.79	13%		$ 13.52	$ (0.28)	-2.00%
8% Rebate	8%		$ (8.49)	8%		$ (8.32)	$ 0.17	
Total Bill on TOU			**$ 111.42**			**$ 109.19**	**$ (2.23)**	**-2.00%**

Customer Class:	GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	
Consumption	2,000	kWh
Demand	-	kW
Current Loss Factor	1.0369	
Proposed/Approved Loss Factor	1.0369	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 28.74	1	$ 28.74	$ 29.20	1	$ 29.20	$ 0.46	1.60%
Distribution Volumetric Rate	$ 0.0183	2000	$ 36.60	$ 0.0186	2000	$ 37.20	$ 0.60	1.64%
Fixed Rate Riders	$ -	1	$ -	$ 0.26	1	$ 0.26	$ 0.26	
Volumetric Rate Riders	$ -	2000	$ -	$ 0.0011	2000	$ 2.22	$ 2.22	
Sub-Total A (excluding pass through)			**$ 65.34**			**$ 68.88**	**$ 3.54**	**5.42%**
Line Losses on Cost of Power	$ 0.0822	74	$ 6.06	$ 0.0822	74	$ 6.06	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 0.0002	2,000	$ 0.40	-$ 0.0025	2,000	$ (5.00)	$ (5.40)	-1350.00%
CBR Class B Rate Riders	$ -	2,000	$ -	$ 0.0002	2,000	$ 0.40	$ 0.40	
GA Rate Riders	$ -	2,000	$ -	$ -	2,000	$ -	$ -	
Low Voltage Service Charge	$ 0.0004	2,000	$ 0.80	$ 0.0004	2,000	$ 0.80	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 1.00	1	$ 1.00	$ 1.00	1	$ 1.00	$ -	0.00%
Additional Volumetric Rate Riders (Sheet 18)		2,000	$ -	$ -	2,000	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 73.60**			**$ 72.15**	**$ (1.46)**	**-1.98%**
RTSR - Network	$ 0.0073	2,074	$ 15.14	$ 0.0067	2,074	$ 13.89	$ (1.24)	-8.22%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0033	2,074	$ 6.84	$ 0.0032	2,074	$ 6.64	$ (0.21)	-3.03%
Sub-Total C - Delivery (including Sub-Total B)			**$ 95.59**			**$ 92.68**	**$ (2.91)**	**-3.04%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,074	$ 7.47	$ 0.0036	2,074	$ 7.47	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,074	$ 0.62	$ 0.0003	2,074	$ 0.62	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ 0.0070	2,000	$ 14.00	$ -	0.00%
TOU - Off Peak	$ 0.0650	1,300	$ 84.50	$ 0.0650	1,300	$ 84.50	$ -	0.00%
TOU - Mid Peak	$ 0.0950	340	$ 32.30	$ 0.0950	340	$ 32.30	$ -	0.00%
TOU - On Peak	$ 0.1320	360	$ 47.52	$ 0.1320	360	$ 47.52	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 282.24**			**$ 279.33**	**$ (2.91)**	**-1.03%**
HST	13%		$ 36.69	13%		$ 36.31	$ (0.38)	-1.03%
8% Rebate	8%		$ (22.58)	8%		$ (22.35)	$ 0.23	
Total Bill on TOU			**$ 296.36**			**$ 293.30**	**$ (3.05)**	**-1.03%**

Customer Class:	**GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	
Consumption	**80,000**	**kWh**
Demand	**250**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 140.97	1	$ 140.97	$ 143.23	1	$ 143.23	$ 2.26	1.60%
Distribution Volumetric Rate	$ 4.2037	250	$ 1,050.93	$ 4.2710	250	$ 1,067.75	$ 16.82	1.60%
Fixed Rate Riders	$ -	1	$ -	$ 1.28	1	$ 1.28	$ 1.28	
Volumetric Rate Riders	$ -	250	$ -	$ 0.1174	250	$ 29.36	$ 29.36	
Sub-Total A (excluding pass through)			**$ 1,191.90**			**$ 1,241.62**	**$ 49.72**	**4.17%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders Including GA(kW) Rate Riders	$ 0.4884	250	$ 122.10	$ 0.9376	250	$ 234.40	$ 112.30	91.97%
CBR Class B Rate Riders	$ -	250	$ -	$ 0.0900	250	$ 22.50	$ 22.50	
GA Rate Riders	$ -	80,000	$ -	$ 0.0004	80,000	$ 32.00	$ 32.00	
Low Voltage Service Charge	$ 0.1589	250	$ 39.73	$ 0.1589	250	$ 39.73	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Additional Volumetric Rate Riders (Sheet 18)		250	$ -	$ -	250	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 1,353.72**			**$ 1,570.24**	**$ 216.52**	**15.99%**
RTSR - Network	$ 2.9268	250	$ 731.70	$ 2.7058	250	$ 676.45	$ (55.25)	-7.55%
RTSR - Connection and/or Line and Transformation Connection	$ 1.2618	250	$ 315.45	$ 1.2303	250	$ 307.58	$ (7.88)	-2.50%
Sub-Total C - Delivery (including Sub-Total B)			**$ 2,400.87**			**$ 2,554.27**	**$ 153.40**	**6.39%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	82,952	$ 298.63	$ 0.0036	82,952	$ 298.63	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	82,952	$ 24.89	$ 0.0003	82,952	$ 24.89	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	80,000	$ 560.00	$ 0.0070	80,000	$ 560.00	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1101	82,952	$ 9,133.02	$ 0.1101	82,952	$ 9,133.02	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 12,417.65**			**$ 12,571.05**	**$ 153.40**	**1.24%**
HST	13%		$ 1,614.29	13%		$ 1,634.24	$ 19.94	1.24%
Total Bill on Average IESO Wholesale Market Price			**$ 14,031.94**			**$ 14,205.28**	**$ 173.34**	**1.24%**

Customer Class:	**LARGE USE SERVICE CLASSIFICATION**
RPP / Non-RPP:	**Non-RPP (Other)**
Consumption	**2,800,000** **kWh**
Demand	**7,350** **kW**
Current Loss Factor	**1.0145**
Proposed/Approved Loss Factor	**1.0145**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 6,073.68	1	$ 6,073.68	$ 6,170.86	1	$ 6,170.86	$ 97.18	1.60%
Distribution Volumetric Rate	$ 2.2421	7350	$ 16,479.44	$ 2.2780	7350	$ 16,743.30	$ 263.86	1.60%
Fixed Rate Riders	$ -	1	$ -	$ 55.22	1	$ 55.22	$ 55.22	
Volumetric Rate Riders	$ -	7350	$ -	-$ 0.0515	7350	$ (378.60)	$ (378.60)	
Sub-Total A (excluding pass through)			**$ 22,553.12**			**$ 22,590.78**	**$ 37.66**	**0.17%**
Line Losses on Cost of Power	$ -	-	$ -	$ -	-	$ -	$ -	
Total Deferral/Variance Account Rate Riders	$ 0.0765	7,350	$ 562.28	-$ 1.1519	7,350	$ (8,466.47)	$ (9,028.74)	-1605.75%
CBR Class B Rate Riders	$ -	7,350	$ -	$ -	7,350	$ -	$ -	
GA Rate Riders	$ -	2,800,000	$ -	$ -	2,800,000	$ -	$ -	
Low Voltage Service Charge	$ 0.1630	7,350	$ 1,198.05	$ 0.1630	7,350	$ 1,198.05	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Additional Volumetric Rate Riders (Sheet 18)		7,350	$ -	$ -	7,350	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 24,313.44**			**$ 15,322.36**	**$ (8,991.08)**	**-36.98%**
RTSR - Network	$ 3.5361	7,350	$ 25,990.34	$ 3.2690	7,350	$ 24,027.15	$ (1,963.19)	-7.55%
RTSR - Connection and/or Line and Transformation Connection	$ 1.3178	7,350	$ 9,685.83	$ 1.2849	7,350	$ 9,444.02	$ (241.82)	-2.50%
Sub-Total C - Delivery (including Sub-Total B)			**$ 59,989.61**			**$ 48,793.53**	**$ (11,196.08)**	**-18.66%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,840,600	$ 10,226.16	$ 0.0036	2,840,600	$ 10,226.16	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,840,600	$ 852.18	$ 0.0003	2,840,600	$ 852.18	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	2,800,000	$ 19,600.00	$ 0.0070	2,800,000	$ 19,600.00	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1101	2,840,600	$ 312,750.06	$ 0.1101	2,840,600	$ 312,750.06	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 403,418.26**			**$ 392,222.18**	**$ (11,196.08)**	**-2.78%**
HST	13%		$ 52,444.37	13%		$ 50,988.88	$ (1,455.49)	-2.78%
Total Bill on Average IESO Wholesale Market Price			**$ 455,862.63**			**$ 443,211.06**	**$ (12,651.57)**	**-2.78%**

Customer Class:	**UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	
Consumption	**150**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 8.60	1	$ 8.60	$ 8.74	1	$ 8.74	$ 0.14	1.63%
Distribution Volumetric Rate	$ 0.0195	150	$ 2.93	$ 0.0198	150	$ 2.97	$ 0.05	1.54%
Fixed Rate Riders	$ -	1	$ -	$ 0.08	1	$ 0.08	$ 0.08	
Volumetric Rate Riders	$ -	150	$ -	-$ 0.0003	150	$ (0.04)	$ (0.04)	
Sub-Total A (excluding pass through)			**$ 11.53**			**$ 11.75**	**$ 0.22**	**1.91%**
Line Losses on Cost of Power	$ 0.0822	6	$ 0.45	$ 0.0822	6	$ 0.45	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 0.0002	150	$ 0.03	-$ 0.0025	150	$ (0.38)	$ (0.41)	-1350.00%
CBR Class B Rate Riders	$ -	150	$ -	$ 0.0002	150	$ 0.03	$ 0.03	
GA Rate Riders	$ -	150	$ -	$ -	150	$ -	$ -	
Low Voltage Service Charge	$ 0.0005	150	$ 0.08	$ 0.0005	150	$ 0.08	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Additional Volumetric Rate Riders (Sheet 18)		150	$ -	$ -	150	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 12.08**			**$ 11.93**	**$ (0.15)**	**-1.28%**
RTSR - Network	$ 0.0069	156	$ 1.07	$ 0.0064	156	$ 1.00	$ (0.08)	-7.25%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0035	156	$ 0.54	$ 0.0034	156	$ 0.53	$ (0.02)	-2.86%
Sub-Total C - Delivery (including Sub-Total B)			**$ 13.70**			**$ 13.45**	**$ (0.25)**	**-1.81%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	156	$ 0.56	$ 0.0036	156	$ 0.56	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	156	$ 0.05	$ 0.0003	156	$ 0.05	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	150	$ 1.05	$ 0.0070	150	$ 1.05	$ -	0.00%
TOU - Off Peak	$ 0.0650	98	$ 6.34	$ 0.0650	98	$ 6.34	$ -	0.00%
TOU - Mid Peak	$ 0.0950	26	$ 2.42	$ 0.0950	26	$ 2.42	$ -	0.00%
TOU - On Peak	$ 0.1320	27	$ 3.56	$ 0.1320	27	$ 3.56	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 27.93**			**$ 27.68**	**$ (0.25)**	**-0.89%**
HST	13%		$ 3.63	13%		$ 3.60	$ (0.03)	-0.89%
Total Bill on TOU			**$ 31.56**			**$ 31.28**	**$ (0.28)**	**-0.89%**

Customer Class:	**SENTINEL LIGHTING SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**RPP**	
Consumption	**180**	**kWh**
Demand	**1**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 4.19	1	$ 4.19	$ 4.26	1	$ 4.26	$ 0.07	1.67%
Distribution Volumetric Rate	$ 9.8694	1	$ 9.87	$ 10.0273	1	$ 10.03	$ 0.16	1.60%
Fixed Rate Riders	$ -	1	$ -	$ 0.04	1	$ 0.04	$ 0.04	
Volumetric Rate Riders	$ -	1	$ -	-$ 0.2932	1	$ (0.29)	$ (0.29)	
Sub-Total A (excluding pass through)			**$ 14.06**			**$ 14.03**	**$ (0.03)**	**-0.18%**
Line Losses on Cost of Power	$ 0.0822	7	$ 0.55	$ 0.0822	7	$ 0.55	$ -	0.00%
Total Deferral/Variance Account Rate Riders Including GA(kW) Rate Riders	$ 0.5054	1	$ 0.51	$ 1.0399	1	$ 1.04	$ 0.53	105.76%
CBR Class B Rate Riders	$ -	1	$ -	$ 0.0889	1	$ 0.09	$ 0.09	
GA Rate Riders	$ -	180	$ -	$ -	180	$ -	$ -	
Low Voltage Service Charge	$ 0.1170	1	$ 0.12	$ 0.1170	1	$ 0.12	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Additional Volumetric Rate Riders (Sheet 18)		1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 15.23**			**$ 15.83**	**$ 0.60**	**3.93%**
RTSR - Network	$ 2.2743	1	$ 2.27	$ 2.1025	1	$ 2.10	$ (0.17)	-7.55%
RTSR - Connection and/or Line and Transformation Connection	$ 0.9336	1	$ 0.93	$ 0.9103	1	$ 0.91	$ (0.02)	-2.50%
Sub-Total C - Delivery (including Sub-Total B)			**$ 18.44**			**$ 18.84**	**$ 0.40**	**2.19%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	187	$ 0.67	$ 0.0036	187	$ 0.67	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	187	$ 0.06	$ 0.0003	187	$ 0.06	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	180	$ 1.26	$ 0.0070	180	$ 1.26	$ -	0.00%
TOU - Off Peak	$ 0.0650	117	$ 7.61	$ 0.0650	117	$ 7.61	$ -	0.00%
TOU - Mid Peak	$ 0.0950	31	$ 2.91	$ 0.0950	31	$ 2.91	$ -	0.00%
TOU - On Peak	$ 0.1320	32	$ 4.28	$ 0.1320	32	$ 4.28	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 35.46**			**$ 35.87**	**$ 0.40**	**1.14%**
HST	13%		$ 4.61	13%		$ 4.66	$ 0.05	1.14%
Total Bill on TOU			**$ 40.07**			**$ 40.53**	**$ 0.46**	**1.14%**

Customer Class:	**STREET LIGHTING SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Other)**	
Consumption	**280**	**kWh**
Demand	**1**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 1.19	1	$ 1.19	$ 1.21	1	$ 1.21	$ 0.02	1.68%
Distribution Volumetric Rate	$ 6.3222	1	$ 6.32	$ 6.4234	1	$ 6.42	$ 0.10	1.60%
Fixed Rate Riders	$ -	1	$ -	$ 0.01	1	$ 0.01	$ 0.01	
Volumetric Rate Riders	$ -	1	$ -	$ 0.9070	1	$ 0.91	$ 0.91	
Sub-Total A (excluding pass through)			**$ 7.51**			**$ 8.55**	**$ 1.04**	**13.82%**
Line Losses on Cost of Power	$ 0.1101	10	$ 1.14	$ 0.1101	10	$ 1.14	$ -	0.00%
Total Deferral/Variance Account Rate Riders Including GA(kW) Rate Riders	$ 0.4663	1	$ 0.47	$ 0.9023	1	$ 0.90	$ 0.44	93.50%
CBR Class B Rate Riders	$ -	1	$ -	$ 0.0864	1	$ 0.09	$ 0.09	
GA Rate Riders	$ -	280	$ -	$ 0.0004	280	$ 0.11	$ 0.11	
Low Voltage Service Charge	$ 0.1288	1	$ 0.13	$ 0.1288	1	$ 0.13	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ -	1	$ -	$ -	1	$ -	$ -	
Additional Volumetric Rate Riders (Sheet 18)		1	$ -	$ -	1	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 9.24**			**$ 10.92**	**$ 1.67**	**18.09%**
RTSR - Network	$ 2.9431	1	$ 2.94	$ 2.7208	1	$ 2.72	$ (0.22)	-7.55%
RTSR - Connection and/or Line and Transformation Connection	$ 1.3520	1	$ 1.35	$ 1.3183	1	$ 1.32	$ (0.03)	-2.49%
Sub-Total C - Delivery (including Sub-Total B)			**$ 13.54**			**$ 14.96**	**$ 1.42**	**10.46%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	290	$ 1.05	$ 0.0036	290	$ 1.05	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	290	$ 0.09	$ 0.0003	290	$ 0.09	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)	$ 0.0070	280	$ 1.96	$ 0.0070	280	$ 1.96	$ -	0.00%
Average IESO Wholesale Market Price	$ 0.1101	280	$ 30.83	$ 0.1101	280	$ 30.83	$ -	0.00%
Total Bill on Average IESO Wholesale Market Price			**$ 47.71**			**$ 49.13**	**$ 1.42**	**2.97%**
HST	13%		$ 6.20	13%		$ 6.39	$ 0.18	2.97%
Total Bill on Average IESO Wholesale Market Price			**$ 53.91**			**$ 55.51**	**$ 1.60**	**2.97%**

Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	
Consumption	309	kWh
Demand	-	kW
Current Loss Factor	1.0369	
Proposed/Approved Loss Factor	1.0369	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 18.51	1	$ 18.51	$ 21.78	1	$ 21.78	$ 3.27	17.67%
Distribution Volumetric Rate	$ 0.0130	308.871	$ 4.02	$ 0.0088	308.871	$ 2.72	$ (1.30)	-32.31%
Fixed Rate Riders	$ -	1	$ -	$ 0.25	1	$ 0.25	$ 0.25	
Volumetric Rate Riders	$ -	308.871	$ -	$ 0.0000	308.871	$ 0.00	$ 0.00	
Sub-Total A (excluding pass through)			**$ 22.53**			**$ 24.75**	**$ 2.22**	**9.87%**
Line Losses on Cost of Power	$ 0.0822	11	$ 0.94	$ 0.0822	11	$ 0.94	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ -	309	$ -	-$ 0.0028	309	$ (0.86)	$ (0.86)	
CBR Class B Rate Riders	$ -	309	$ -	$ 0.0002	309	$ 0.06	$ 0.06	
GA Rate Riders	$ -	309	$ -	$ -	309	$ -	$ -	
Low Voltage Service Charge	$ 0.0005	309	$ 0.15	$ 0.0005	309	$ 0.15	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.97	1	$ 0.97	$ 0.97	1	$ 0.97	$ -	0.00%
Additional Volumetric Rate Riders (Sheet 18)		309	$ -	$ -	309	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 24.59**			**$ 26.01**	**$ 1.42**	**5.78%**
RTSR - Network	$ 0.0082	320	$ 2.63	$ 0.0076	320	$ 2.43	$ (0.19)	-7.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0038	320	$ 1.22	$ 0.0037	320	$ 1.18	$ (0.03)	-2.63%
Sub-Total C - Delivery (including Sub-Total B)			**$ 28.43**			**$ 29.63**	**$ 1.20**	**4.21%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	320	$ 1.15	$ 0.0036	320	$ 1.15	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	320	$ 0.10	$ 0.0003	320	$ 0.10	$ -	0.00%
Standard Supply Service Charge	$ 0.25	1	$ 0.25	$ 0.25	1	$ 0.25	$ -	0.00%
Debt Retirement Charge (DRC)								
TOU - Off Peak	$ 0.0650	201	$ 13.05	$ 0.0650	201	$ 13.05	$ -	0.00%
TOU - Mid Peak	$ 0.0950	53	$ 4.99	$ 0.0950	53	$ 4.99	$ -	0.00%
TOU - On Peak	$ 0.1320	56	$ 7.34	$ 0.1320	56	$ 7.34	$ -	0.00%
Total Bill on TOU (before Taxes)			**$ 55.31**			**$ 56.50**	**$ 1.20**	**2.16%**
HST	13%		$ 7.19	13%		$ 7.35	$ 0.16	2.16%
8% Rebate	8%		$ (4.42)	8%		$ (4.52)	$ (0.10)	
Total Bill on TOU			**$ 58.07**			**$ 59.33**	**$ 1.26**	**2.16%**

Customer Class:	**RESIDENTIAL SERVICE CLASSIFICATION**
RPP / Non-RPP:	**Non-RPP (Retailer)**
Consumption	**750** kWh
Demand	**-** kW
Current Loss Factor	**1.0369**
Proposed/Approved Loss Factor	**1.0369**

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 18.51	1	$ 18.51	$ 21.78	1	$ 21.78	$ 3.27	17.67%
Distribution Volumetric Rate	$ 0.0130	750	$ 9.75	$ 0.0088	750	$ 6.60	$ (3.15)	-32.31%
Fixed Rate Riders	$ -	1	$ -	$ 0.25	1	$ 0.25	$ 0.25	
Volumetric Rate Riders	$ -	750	$ -	$ 0.0000	750	$ 0.00	$ 0.00	
Sub-Total A (excluding pass through)			**$ 28.26**			**$ 28.63**	**$ 0.37**	**1.31%**
Line Losses on Cost of Power	$ 0.1101	28	$ 3.05	$ 0.1101	28	$ 3.05	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ -	750	$ -	-$ 0.0028	750	$ (2.10)	$ (2.10)	
CBR Class B Rate Riders	$ -	750	$ -	$ 0.0002	750	$ 0.15	$ 0.15	
GA Rate Riders	$ 0.0012	750	$ 0.90	$ 0.0004	750	$ 0.30	$ (0.60)	-66.67%
Low Voltage Service Charge	$ 0.0005	750	$ 0.38	$ 0.0005	750	$ 0.38	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 0.97	1	$ 0.97	$ 0.97	1	$ 0.97	$ -	0.00%
Additional Volumetric Rate Riders (Sheet 18)		750	$ -	$ -	750	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 33.55**			**$ 31.37**	**$ (2.18)**	**-6.49%**
RTSR - Network	$ 0.0082	778	$ 6.38	$ 0.0076	778	$ 5.91	$ (0.47)	-7.32%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0038	778	$ 2.96	$ 0.0037	778	$ 2.88	$ (0.08)	-2.63%
Sub-Total C - Delivery (including Sub-Total B)			**$ 42.88**			**$ 40.16**	**$ (2.72)**	**-6.35%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	778	$ 2.80	$ 0.0036	778	$ 2.80	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	778	$ 0.23	$ 0.0003	778	$ 0.23	$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)								
Non-RPP Retailer Avg. Price	$ 0.1101	750	$ 82.58	$ 0.1101	750	$ 82.58	$ -	0.00%
Total Bill on Non-RPP Avg. Price			**$ 128.49**			**$ 125.77**	**$ (2.72)**	**-2.12%**
HST	13%		$ 16.70	13%		$ 16.35	$ (0.35)	-2.12%
8% Rebate	8%			8%				
Total Bill on Non-RPP Avg. Price			**$ 145.20**			**$ 142.12**	**$ (3.08)**	**-2.12%**

Customer Class:	**GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION**	
RPP / Non-RPP:	**Non-RPP (Retailer)**	
Consumption	**2,000**	**kWh**
Demand	**-**	**kW**
Current Loss Factor	**1.0369**	
Proposed/Approved Loss Factor	**1.0369**	

	Current OEB-Approved			Proposed			Impact	
	Rate ($)	Volume	Charge ($)	Rate ($)	Volume	Charge ($)	$ Change	% Change
Monthly Service Charge	$ 28.74	1	$ 28.74	$ 29.20	1	$ 29.20	$ 0.46	1.60%
Distribution Volumetric Rate	$ 0.0183	2000	$ 36.60	$ 0.0186	2000	$ 37.20	$ 0.60	1.64%
Fixed Rate Riders	$ -	1	$ -	$ 0.26	1	$ 0.26	$ 0.26	
Volumetric Rate Riders	$ -	2000	$ -	$ 0.0011	2000	$ 2.22	$ 2.22	
Sub-Total A (excluding pass through)			**$ 65.34**			**$ 68.88**	**$ 3.54**	**5.42%**
Line Losses on Cost of Power	$ 0.1101	74	$ 8.13	$ 0.1101	74	$ 8.13	$ -	0.00%
Total Deferral/Variance Account Rate Riders	$ 0.0002	2,000	$ 0.40	-$ 0.0025	2,000	$ (5.00)	$ (5.40)	-1350.00%
CBR Class B Rate Riders	$ -	2,000	$ -	$ 0.0002	2,000	$ 0.40	$ 0.40	
GA Rate Riders	$ 0.0012	2,000	$ 2.40	$ 0.0004	2,000	$ 0.80	$ (1.60)	-66.67%
Low Voltage Service Charge	$ 0.0004	2,000	$ 0.80	$ 0.0004	2,000	$ 0.80	$ -	0.00%
Smart Meter Entity Charge (if applicable) and/or any fixed ($) Deferral/Variance Account Rate Riders	$ 1.00	1	$ 1.00	$ 1.00	1	$ 1.00	$ -	0.00%
Additional Volumetric Rate Riders (Sheet 18)		2,000	$ -	$ -	2,000	$ -	$ -	
Sub-Total B - Distribution (includes Sub-Total A)			**$ 78.07**			**$ 75.01**	**$ (3.06)**	**-3.92%**
RTSR - Network	$ 0.0073	2,074	$ 15.14	$ 0.0067	2,074	$ 13.89	$ (1.24)	-8.22%
RTSR - Connection and/or Line and Transformation Connection	$ 0.0033	2,074	$ 6.84	$ 0.0032	2,074	$ 6.64	$ (0.21)	-3.03%
Sub-Total C - Delivery (including Sub-Total B)			**$ 100.05**			**$ 95.54**	**$ (4.51)**	**-4.51%**
Wholesale Market Service Charge (WMSC)	$ 0.0036	2,074	$ 7.47	$ 0.0036	2,074	$ 7.47	$ -	0.00%
Rural and Remote Rate Protection (RRRP)	$ 0.0003	2,074	$ 0.62	$ 0.0003	2,074	$ 0.62	$ -	0.00%
Standard Supply Service Charge								
Debt Retirement Charge (DRC)	$ 0.0070	2,000	$ 14.00	$ 0.0070	2,000	$ 14.00	$ -	0.00%
Non-RPP Retailer Avg. Price	$ 0.1101	2,000	$ 220.20	$ 0.1101	2,000	$ 220.20	$ -	0.00%
Total Bill on Non-RPP Avg. Price			**$ 342.34**			**$ 337.83**	**$ (4.51)**	**-1.32%**
HST	13%		$ 44.50	13%		$ 43.92	$ (0.59)	-1.32%
8% Rebate	8%			8%				
Total Bill on Non-RPP Avg. Price			**$ 386.84**			**$ 381.74**	**$ (5.10)**	**-1.32%**

JT.Staff-6

Ref: PRZ-Staff-Supp-4, part d)

a) PRZ states that $-4,180,326 should be removed re. Class B non-RPP interval customers. It is not clear if this amount has been removed from the DVA Continuity Schedule. Please confirm that the amounts proposed for disposition do not include any variances related to Class B non-RPP interval customers.

Response:

a) Please see Alectra Utilities' response to part b) of JT.Staff-5. The amount of ($4,180,326) re. Class B non-RPP interval customers is part of the credit amount of $4,970,749 that will be removed from the PRZ DVA Continuity Schedule. Alectra Utilities confirms that after this adjustment, the PRZ GA amounts proposed for disposition do not include any variances related to Class B non-RPP interval customers or Class A customers.

JT.Staff-7

Ref: HRZ-SEC-6, and CCC-12 – Capitalization Policy

a) What date did the change in capitalization policy become effective for each rate zone? Was the change effective January 1, 2017 for the predecessor companies of Alectra Utilities, was the change at the time of the merger creating Alectra Utilities or was it at a different time?

b) For the predecessor companies of Alectra Utilities was there a change to the closing balances of any fixed asset classes on pre-merger date or was there a change to the opening balances of those fixed asset classes on the date of the merger or for the opening balance of these same fixed assets on transition to Alectra Utilities?

i. Please reconcile the differences pre-merger and post-merger for the predecessor companies of Alectra Utilities.

c) What is the amount of the change in fixed asset costs for the Enersource RZ and Brampton RZ for the period 2017 to 2026 and for the Horizon RZ for the period 2022 to 2026?

i. Please provide a summary Table showing the original and updated amounts and a description of changes for each rate zone.

d) Please calculate the difference in the revenue requirement impact on each of the rate zones from 2017 to 2026 of changes in their capitalization policies.

e) Please confirm that the capitalization policies for the PRZ have not changed post-merger, and there is no revenue requirement impact of changes in capitalization policies for PRZ post-merger as part of Alectra Utilities.

Response:

a) The change was effective on February 1, 2017, the date that Alectra was formed, for the Horizon Utilities and Enersource rate zones, and March 1, 2017 for Brampton rate zone. There was no change made prior to February 1, 2017.

b) The capitalization policy change was effective February 1, 2017. It did not affect the fixed asset classes pre-merger nor was there a change in the opening balances.. The change impacts in-service additions in 2017 and subsequent years. The actual impact will be based on the level of actual capital expenditures in the respective year. The total net impact of the financial differences arising from the change to Alectra Utlities' capitalization policy is discussed immediately below.

c) As identified in Alectra Utilities' response to CCC-12, the impact of the change to the capitalization policy is projected to provide for more capitalization of costs for the Enersource and Horizon Utilities rate zones and less capitalization of costs for the Brampton rate zone. The projected change in capitalized costs for each of the rate zones is identified in Alectra Utiltiies' response to part d) of the response.

As stated in the Capitalization Policy Memo, filed as JT2.32_Attach 1_Capitalizaton Policy Memo, a detailed review of the accounting policies of the predecessor utilities was undertaken, which primarily focused on overhead and indirect costs. As identified at page 3 of the Memo, the following tasks were completed as part of the detailed review:

1. Review of each utility's legacy accounting policy and rationale;
2. Detailed analysis of each cost category capitalized;
3. Detailed analysis of major differences for each cost category;
4. Recommendation on the accounting policy; and
5. Quantificaton of the financial impact of the proposed accounting policy.

The details of the changes are itemized in the Memo. A summary is provided below.

Direct labour: The result of this change is more salaries and benefits will be allocated to capital programs relating to network planning, standards, records and customer account set up.

Benefit Costs: The result of this change is that additional benefits such as post-retirement benefits and safety wear are now included in the pool of benefits and therefore allocated to capital projects.

Material Handling Costs: The result of this change is that additional supply chain costs such as the salary and benefits of stores personnel; small tools and depreciation of stores equipment are now allocated to all materials issued out from inventory and therefore allocated to capital projects.

Fleet Costs: The result of this change is that additional fleet and logistics costs such as the salary and benefits of fleet maintenance personnel; small tools and depreciation of fleet are now included in the fleet rate allocated to capital projects.

d) To capture the net impact of the capitalization policy change, the change for each of the three rate zones should include the impact of the following items:

- The actual impact on OM&A expenditures in each year following the change in captializatoin policy until rebasing;
- The actual impact on depreciation expense over the life of the underlying assets as a result of the increase/decrease in capitalization costs;
- The impact on income tax or PILs for the amount paid to taxation authorities; and
- The annual return on the cumulative impact from the annual change in capitalization for the Horizon Utilities, Enersource and Brampton rate zones.

The increase in capitalized costs for the Enersource and Horizon Utilities rate zones results in a corresponding reduction in OM&A expenditures and an increase in depreciation expense over the life of the underlying assets. The decrease in capitalized costs for the Brampton rate zone results in a corresponding increase in OM&A expenditures and a decrease in depreciation expense over the life of the underlying assets. The net impact of the reduction in OM&A and increase in depreciation expense is forecasted to increase pre-tax net income. This will attract higher income taxes paid to taxation authorities, not reflected in base rates for each of the rate zones. Further, the total impact must be offset by the annual return on the cumulative capital that can only be added to a distributor's rate base at rebasing. The projected net impact for each rate zone is provided in Table 2, below. The detailed calculations are filed as JT Staff 7_Attach 1_Capitalization Policy Financial Differences. Table 1 below provides the total net impact of the change in capitalization policy over the ten year period. The total average annual net impact is $2.6MM.

Table 1 – Net Impact of Capitalization Policy Change (Three Rate Zones)

Capitalization Policy Impact ($000s)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2017-2026
Enersource RZ	1,792	1,792	1,792	1,792	1,792	1,792	1,792	1,792	1,792	1,792	17,920
Horizon Utilities RZ	6,280	6,332	6,379	6,544	6,715	6,715	6,715	6,715	6,715	6,715	65,827
Brampton RZ	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(23,497)
Total OM&A Impact	**5,723**	**5,774**	**5,821**	**5,986**	**6,158**	**6,158**	**6,158**	**6,158**	**6,158**	**6,158**	**60,249**
Enersource RZ	(22)	(67)	(115)	(163)	(211)	(259)	(307)	(354)	(402)	(450)	(2,350)
Horizon Utilities RZ	(79)	(236)	(395)	(557)	(722)	(888)	(1,054)	(1,220)	(1,385)	(1,551)	(8,086)
Brampton RZ	34	101	168	235	302	369	436	504	571	638	3,357
Total Depreciation Impact	**(67)**	**(203)**	**(342)**	**(484)**	**(631)**	**(777)**	**(924)**	**(1,070)**	**(1,217)**	**(1,363)**	**(7,079)**
Enersource RZ	(456)	(419)	(386)	(355)	(327)	(300)	(276)	(254)	(234)	(215)	(3,223)
Horizon Utilities RZ	(1,598)	(1,483)	(1,376)	(1,308)	(1,247)	(1,147)	(1,056)	(971)	(893)	(822)	(11,902)
Brampton RZ	598	550	506	465	428	394	362	333	307	282	4,226
Total PILs Impact	**(1,456)**	**(1,353)**	**(1,256)**	**(1,198)**	**(1,145)**	**(1,054)**	**(970)**	**(892)**	**(821)**	**(755)**	**(10,899)**
Enersource RZ	(115)	(227)	(337)	(443)	(545)	(645)	(742)	(835)	(926)	(1,013)	(5,828)
Horizon Utilities RZ	(343)	(703)	(1,058)	(1,404)	(1,751)	(2,088)	(2,416)	(2,734)	(3,042)	(3,341)	(18,879)
Brampton RZ	167	329	486	639	786	929	1,067	1,200	1,328	1,451	8,381
Total Return on Capital Impact	**(291)**	**(602)**	**(908)**	**(1,208)**	**(1,510)**	**(1,804)**	**(2,091)**	**(2,369)**	**(2,640)**	**(2,903)**	**(16,327)**
Enersource RZ	1,199	1,078	955	832	709	588	467	348	230	113	6,519
Horizon Utilities RZ	4,261	3,910	3,550	3,275	2,995	2,592	2,190	1,791	1,394	1,001	26,959
Brampton RZ	(1,551)	(1,370)	(1,190)	(1,011)	(833)	(658)	(484)	(313)	(144)	22	(7,533)
Total Net Impact	**3,909**	**3,617**	**3,315**	**3,096**	**2,871**	**2,522**	**2,173**	**1,826**	**1,480**	**$1,136**	**25,945**

e) Alectra Utilities confirms that the capitalization policy for the PowerStream rate zone did not change post-merger. As part of the Alectra Utilities' accounting policy review process, a difference was identified for the PowerStream rate zone due to a reclassification of costs between burden pools based on a change in estimate and not a change in accounting policy.

2018 EDR Application (EB-2017-0024)
Analysis of Capitalization Policy Change

Capitalization Policy Impact ($000s)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2017-2026
Enersource RZ	1,792	1,792	1,792	1,792	1,792	1,792	1,792	1,792	1,792	1,792	17,920
Horizon Utilities RZ	6,280	6,332	6,379	6,544	6,715	6,715	6,715	6,715	6,715	6,715	65,827
Brampton RZ	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(2,350)	(23,497)
Total OM&A Impact	**5,723**	**5,774**	**5,821**	**5,986**	**6,158**	**6,158**	**6,158**	**6,158**	**6,158**	**6,158**	**60,249**
Enersource RZ	(22)	(67)	(115)	(163)	(211)	(259)	(307)	(354)	(402)	(450)	(2,350)
Horizon Utilities RZ	(79)	(236)	(395)	(557)	(722)	(888)	(1,054)	(1,220)	(1,385)	(1,551)	(8,086)
Brampton RZ	34	101	168	235	302	369	436	504	571	638	3,357
Total Depreciation Impact	**(67)**	**(203)**	**(342)**	**(484)**	**(631)**	**(777)**	**(924)**	**(1,070)**	**(1,217)**	**(1,363)**	**(7,079)**
Enersource RZ	(456)	(419)	(386)	(355)	(327)	(300)	(276)	(254)	(234)	(215)	(3,223)
Horizon Utilities RZ	(1,598)	(1,483)	(1,376)	(1,308)	(1,247)	(1,147)	(1,056)	(971)	(893)	(822)	(11,902)
Brampton RZ	598	550	506	465	428	394	362	333	307	282	4,226
Total PILs Impact	**(1,456)**	**(1,353)**	**(1,256)**	**(1,198)**	**(1,145)**	**(1,054)**	**(970)**	**(892)**	**(821)**	**(755)**	**(10,899)**
Enersource RZ	(115)	(227)	(337)	(443)	(545)	(645)	(742)	(835)	(926)	(1,013)	(5,828)
Horizon Utilities RZ	(343)	(703)	(1,058)	(1,404)	(1,751)	(2,088)	(2,416)	(2,734)	(3,042)	(3,341)	(18,879)
Brampton RZ	167	329	486	639	786	929	1,067	1,200	1,328	1,451	8,381
Total Return on Capital Impact	**(291)**	**(602)**	**(908)**	**(1,208)**	**(1,510)**	**(1,804)**	**(2,091)**	**(2,369)**	**(2,640)**	**(2,903)**	**(16,327)**
Enersource RZ	1,199	1,078	955	832	709	588	467	348	230	113	6,519
Horizon Utilities RZ	4,261	3,910	3,550	3,275	2,995	2,592	2,190	1,791	1,394	1,001	26,959
Brampton RZ	(1,551)	(1,370)	(1,190)	(1,011)	(833)	(658)	(484)	(313)	(144)	22	(7,533)
Total Net Impact	**3,909**	**3,617**	**3,315**	**3,096**	**2,871**	**2,522**	**2,173**	**1,826**	**1,480**	**$1,136**	**25,945**

Alectra Utilities
Change of Capitalization Policy/Impact on OM&A

Horizon Utilities	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2017-2026
Direct Labour Costs	1,726,949	1,794,753	1,821,276	1,857,701	1,894,855	1,894,855	1,894,855	1,894,855	1,894,855	1,894,855	18,569,809
Benefit Costs	436,627	450,321	465,135	474,438	483,927	483,927	483,927	483,927	483,927	483,927	4,730,083
Material Handling Costs	2,354,025	2,376,376	2,372,349	2,406,103	2,442,165	2,442,165	2,442,165	2,442,165	2,442,165	2,442,165	24,161,843
Fleet Costs	1,762,653	1,710,575	1,720,082	1,805,723	1,894,314	1,894,314	1,894,314	1,894,314	1,894,314	1,894,314	18,364,917
Total Impact	**6,280,254**	**6,332,025**	**6,378,842**	**6,543,965**	**6,715,261**	**6,715,261**	**6,715,261**	**6,715,261**	**6,715,261**	**6,715,261**	**65,826,652**

Enersource	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2017-2026
Direct Labour Costs	(764,594)	(764,594)	(764,594)	(764,594)	(764,594)	(764,594)	(764,594)	(764,594)	(764,594)	(764,594)	(7,645,939)
Benefit Costs	(115,325)	(115,325)	(115,325)	(115,325)	(115,325)	(115,325)	(115,325)	(115,325)	(115,325)	(115,325)	(1,153,251)
Material Handling Costs	2,257,208	2,257,208	2,257,208	2,257,208	2,257,208	2,257,208	2,257,208	2,257,208	2,257,208	2,257,208	22,572,077
Fleet Costs	414,683	414,683	414,683	414,683	414,683	414,683	414,683	414,683	414,683	414,683	4,146,832
Total Impact	**1,791,972**	**1,791,972**	**1,791,972**	**1,791,972**	**1,791,972**	**1,791,972**	**1,791,972**	**1,791,972**	**1,791,972**	**1,791,972**	**17,919,718**

Brampton	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2017-2026
Direct Labour Costs	(1,975,639)	(1,975,639)	(1,975,639)	(1,975,639)	(1,975,639)	(1,975,639)	(1,975,639)	(1,975,639)	(1,975,639)	(1,975,639)	(19,756,390)
Benefit Costs	(586,154)	(586,154)	(586,154)	(586,154)	(586,154)	(586,154)	(586,154)	(586,154)	(586,154)	(586,154)	(5,861,540)
Material Handling Costs	212,096	212,096	212,096	212,096	212,096	212,096	212,096	212,096	212,096	212,096	2,120,960
Fleet Costs	-	-	-	-	-	-	-	-	-	-	-
Total Impact	**(2,349,697)**	**(2,349,697)**	**(2,349,697)**	**(2,349,697)**	**(2,349,697)**	**(2,349,697)**	**(2,349,697)**	**(2,349,697)**	**(2,349,697)**	**(2,349,697)**	**(23,496,970)**

Consolidated	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2017-2026
Direct Labour Costs	(1,013,284)	(945,480)	(918,957)	(882,532)	(845,378)	(845,378)	(845,378)	(845,378)	(845,378)	(845,378)	(8,832,520)
Benefit Costs	(264,852)	(251,158)	(236,344)	(227,041)	(217,552)	(217,552)	(217,552)	(217,552)	(217,552)	(217,552)	(2,284,708)
Material Handling Costs	4,823,329	4,845,680	4,841,653	4,875,407	4,911,469	4,911,469	4,911,469	4,911,469	4,911,469	4,911,469	48,854,880
Fleet Costs	2,177,336	2,125,258	2,134,765	2,220,406	2,308,997	2,308,997	2,308,997	2,308,997	2,308,997	2,308,997	22,511,749
Total Impact	**5,722,529**	**5,774,300**	**5,821,117**	**5,986,240**	**6,157,536**	**6,157,536**	**6,157,536**	**6,157,536**	**6,157,536**	**6,157,536**	**60,249,400**

Change of Capitalization Policy/Impact on Depreciation

Rate Zone	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2017-2026
Horizon Utilities	(78,503)	(236,157)	(395,042)	(556,578)	(722,318)	(888,058)	(1,053,799)	(1,219,539)	(1,385,279)	(1,551,020)	(8,086,292)
Enersource	(21,576)	(67,100)	(114,993)	(162,886)	(210,780)	(258,673)	(306,567)	(354,460)	(402,354)	(450,247)	(2,349,636)
Brampton	33,567	100,701	167,836	234,970	302,104	369,238	436,372	503,506	570,640	637,774	3,356,708
Total	**(66,513)**	**(202,555)**	**(342,199)**	**(484,494)**	**(630,994)**	**(777,494)**	**(923,993)**	**(1,070,493)**	**(1,216,993)**	**(1,363,493)**	**(7,079,221)**

PILs Impact

HRZ	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**
OM&A Impact	6,280,254	6,332,025	6,378,842	6,543,965	6,715,261	6,715,261	6,715,261	6,715,261	6,715,261	6,715,261
Depreciation Impact	(78,503)	(236,157)	(395,042)	(556,578)	(722,318)	(888,058)	(1,053,799)	(1,219,539)	(1,385,279)	(1,551,020)
NIBT	6,201,751	6,095,868	5,983,800	5,987,387	5,992,943	5,827,203	5,661,462	5,495,722	5,329,982	5,164,241
Add back: Depreciation	78,503	236,157	395,042	556,578	722,318	888,058	1,053,799	1,219,539	1,385,279	1,551,020
Deduct: CCA	(251,210)	(735,605)	(1,185,191)	(1,607,288)	(2,009,074)	(2,385,569)	(2,731,944)	(3,050,610)	(3,343,782)	(3,613,500)
Taxable income	6,029,044	5,596,420	5,193,651	4,936,677	4,706,187	4,329,692	3,983,317	3,664,651	3,371,479	3,101,761
Income tax @ 26.5%	**1,597,697**	**1,483,051**	**1,376,318**	**1,308,219**	**1,247,140**	**1,147,368**	**1,055,579**	**971,133**	**893,442**	**821,967**

ERZ	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**
OM&A Impact	1,791,972	1,791,972	1,791,972	1,791,972	1,791,972	1,791,972	1,791,972	1,791,972	1,791,972	1,791,972
Depreciation Impact	(21,576)	(67,100)	(114,993)	(162,886)	(210,780)	(258,673)	(306,567)	(354,460)	(402,354)	(450,247)
NIBT	1,770,395	1,724,872	1,676,979	1,629,085	1,581,192	1,533,299	1,485,405	1,437,512	1,389,618	1,341,725
Add back: Depreciation	21,576	67,100	114,993	162,886	210,780	258,673	306,567	354,460	402,354	450,247
Deduct: CCA	(71,679)	(209,302)	(335,916)	(452,400)	(559,566)	(658,159)	(748,864)	(832,312)	(909,085)	(979,716)
Taxable income	1,720,293	1,582,670	1,456,056	1,339,571	1,232,406	1,133,813	1,043,108	959,660	882,887	812,256
Income tax @ 26.5%	**455,878**	**419,407**	**385,855**	**354,986**	**326,588**	**300,461**	**276,424**	**254,310**	**233,965**	**215,248**

BRZ	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**
OM&A Impact	(2,349,697)	(2,349,697)	(2,349,697)	(2,349,697)	(2,349,697)	(2,349,697)	(2,349,697)	(2,349,697)	(2,349,697)	(2,349,697)
Depreciation Impact	33,567	100,701	167,836	234,970	302,104	369,238	436,372	503,506	570,640	637,774
NIBT	(2,316,130)	(2,248,996)	(2,181,861)	(2,114,727)	(2,047,593)	(1,980,459)	(1,913,325)	(1,846,191)	(1,779,057)	(1,711,923)
Add back: Depreciation	(33,567)	(100,701)	(167,836)	(234,970)	(302,104)	(369,238)	(436,372)	(503,506)	(570,640)	(637,774)
Deduct: CCA	93,988	274,445	440,465	593,203	733,723	863,001	981,936	1,091,357	1,192,025	1,284,638
Taxable income	(2,255,709)	(2,075,252)	(1,909,232)	(1,756,494)	(1,615,974)	(1,486,696)	(1,367,761)	(1,258,340)	(1,157,672)	(1,065,059)
Income tax @ 26.5%	**(597,763)**	**(549,942)**	**(505,947)**	**(465,471)**	**(428,233)**	**(393,974)**	**(362,457)**	**(333,460)**	**(306,783)**	**(282,241)**

Total Increase in PILs	**1,455,811**	**1,352,517**	**1,256,226**	**1,197,735**	**1,145,494**	**1,053,854**	**969,546**	**891,982**	**820,624**	**754,974**

Capital Cost Allowance Calculation

Horizon Utilities RZ

	Class	Opening	Additions	Disposals	Net Additions	50% of Net Additions	Reduced UCC	Rate	CCA	Ending UCC
2017	47	-	6,280,254	-	6,280,254	3,140,127	3,140,127	8%	(251,210)	6,029,044
2018	47	6,029,044	6,332,025		6,332,025	3,166,013	9,195,056	8%	(735,605)	11,625,464
2019	47	11,625,464	6,378,842		6,378,842	3,189,421	14,814,885	8%	(1,185,191)	16,819,116
2020	47	16,819,116	6,543,965		6,543,965	3,271,983	20,091,098	8%	(1,607,288)	21,755,793
2021	47	21,755,793	6,715,261		6,715,261	3,357,631	25,113,423	8%	(2,009,074)	26,461,980
2022	47	26,461,980	6,715,261		6,715,261	3,357,631	29,819,610	8%	(2,385,569)	30,791,672
2023	47	30,791,672	6,715,261		6,715,261	3,357,631	34,149,302	8%	(2,731,944)	34,774,989
2024	47	34,774,989	6,715,261		6,715,261	3,357,631	38,132,619	8%	(3,050,610)	38,439,640
2025	47	38,439,640	6,715,261		6,715,261	3,357,631	41,797,271	8%	(3,343,782)	41,811,120
2026	47	41,811,120	6,715,261		6,715,261	3,357,631	45,168,750	8%	(3,613,500)	44,912,881
			65,826,652	-	65,826,652				(20,913,771)	

Enersource RZ

	Class	Opening	Additions	Disposals	Net Additions	50% of Net Additions	Reduced UCC	Rate	CCA	Ending UCC
2017	47	-	1,791,972	-	1,791,972	895,986	895,986	8%	(71,679)	1,720,293
2018	47	1,720,293	1,791,972		1,791,972	895,986	2,616,279	8%	(209,302)	3,302,963
2019	47	3,302,963	1,791,972		1,791,972	895,986	4,198,948	8%	(335,916)	4,759,018
2020	47	4,759,018	1,791,972		1,791,972	895,986	5,655,004	8%	(452,400)	6,098,590
2021	47	6,098,590	1,791,972		1,791,972	895,986	6,994,576	8%	(559,566)	7,330,996
2022	47	7,330,996	1,791,972		1,791,972	895,986	8,226,982	8%	(658,159)	8,464,809
2023	47	8,464,809	1,791,972		1,791,972	895,986	9,360,795	8%	(748,864)	9,507,917
2024	47	9,507,917	1,791,972		1,791,972	895,986	10,403,903	8%	(832,312)	10,467,577
2025	47	10,467,577	1,791,972		1,791,972	895,986	11,363,563	8%	(909,085)	11,350,464
2026	47	11,350,464	1,791,972		1,791,972	895,986	12,246,450	8%	(979,716)	12,162,720
			17,919,718	-	17,919,718				(5,756,999)	

Brampton RZ

	Class	Opening	Additions	Disposals	Net Additions	50% of Net Additions	Reduced UCC	Rate	CCA	Ending UCC
2017	47	-	(2,349,697)	-	(2,349,697)	(1,174,849)	(1,174,849)	8%	93,988	(2,255,709)
2018	47	(2,255,709)	(2,349,697)		(2,349,697)	(1,174,849)	(3,430,558)	8%	274,445	(4,330,962)
2019	47	(4,330,962)	(2,349,697)		(2,349,697)	(1,174,849)	(5,505,810)	8%	440,465	(6,240,194)
2020	47	(6,240,194)	(2,349,697)		(2,349,697)	(1,174,849)	(7,415,042)	8%	593,203	(7,996,687)
2021	47	(7,996,687)	(2,349,697)		(2,349,697)	(1,174,849)	(9,171,536)	8%	733,723	(9,612,661)
2022	47	(9,612,661)	(2,349,697)		(2,349,697)	(1,174,849)	(10,787,510)	8%	863,001	(11,099,358)
2023	47	(11,099,358)	(2,349,697)		(2,349,697)	(1,174,849)	(12,274,206)	8%	981,936	(12,467,118)
2024	47	(12,467,118)	(2,349,697)		(2,349,697)	(1,174,849)	(13,641,967)	8%	1,091,357	(13,725,458)
2025	47	(13,725,458)	(2,349,697)		(2,349,697)	(1,174,849)	(14,900,306)	8%	1,192,025	(14,883,130)
2026	47	(14,883,130)	(2,349,697)		(2,349,697)	(1,174,849)	(16,057,979)	8%	1,284,638	(15,948,189)
			(23,496,970)	-	(23,496,970)				7,548,781	

Return on Capital_ERZ

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Increased capitalization	1,791,972	3,562,367	5,287,240	6,964,218	8,593,304	10,174,496	11,707,794	13,193,199	14,630,711	16,020,329
Depreciation Expense	(21,576)	(67,100)	(114,993)	(162,886)	(210,780)	(258,673)	(306,567)	(354,460)	(402,354)	(450,247)
Increased Capital in Rate Base	1,770,395	3,495,268	5,172,247	6,801,332	8,382,524	9,915,822	11,401,228	12,838,739	14,228,357	15,570,082
Deemed ShortTerm Debt %	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Deemed LongTerm Debt %	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%
Short Term Interest	2.08%	2.08%	2.08%	2.08%	2.08%	2.08%	2.08%	2.08%	2.08%	2.08%
Long Term Interest	5.09%	5.09%	5.09%	5.09%	5.09%	5.09%	5.09%	5.09%	5.09%	5.09%
Deemed ShortTerm Debt %	70,816	139,811	206,890	272,053	335,301	396,633	456,049	513,550	569,134	622,803
Deemed Long Term Debt %	991,421	1,957,350	2,896,458	3,808,746	4,694,213	5,552,861	6,384,687	7,189,694	7,967,880	8,719,246
Short Term Interest	1,473	2,908	4,303	5,659	6,974	8,250	9,486	10,682	11,838	12,954
Long Term Interest	50,477	99,657	147,470	193,918	239,001	282,718	325,070	366,056	405,677	443,932
Return on Rate Base - Interest	51,950	102,565	151,774	199,577	245,975	290,968	334,556	376,738	417,515	456,886
Deemed Equity	708,158	1,398,107	2,068,899	2,720,533	3,353,010	3,966,329	4,560,491	5,135,496	5,691,343	6,228,033
	8.93%	8.93%	8.93%	8.93%	8.93%	8.93%	8.93%	8.93%	8.93%	8.93%
Return on Capital - Equity	63,239	124,851	184,753	242,944	299,424	354,193	407,252	458,600	508,237	556,163
Return on Capital	**115,189**	**227,416**	**336,526**	**442,521**	**545,399**	**645,161**	**741,808**	**835,338**	**925,752**	**1,013,049**

Return on capital_BRZ

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Increased capitalization	(2,349,697)	(4,665,827)	(6,914,823)	(9,096,684)	(11,211,411)	(13,259,004)	(15,239,463)	(17,152,788)	(18,998,979)	(20,778,036)
Depreciation Expense	33,567	100,701	167,836	234,970	302,104	369,238	436,372	503,506	570,640	637,774
Increased Capital in Rate Base	(2,316,130)	(4,565,126)	(6,746,987)	(8,861,714)	(10,909,307)	(12,889,766)	(14,803,091)	(16,649,282)	(18,428,339)	(20,140,262)
Deemed ShortTerm Debt %	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Deemed LongTerm Debt %	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%
Short Term Interest	2.16%	2.16%	2.16%	2.16%	2.16%	2.16%	2.16%	2.16%	2.16%	2.16%
Long Term Interest	6.07%	6.07%	6.07%	6.07%	6.07%	6.07%	6.07%	6.07%	6.07%	6.07%
Deemed ShortTerm Debt %	(92,645)	(182,605)	(269,879)	(354,469)	(436,372)	(515,591)	(592,124)	(665,971)	(737,134)	(805,610)
Deemed Long Term Debt %	(1,297,033)	(2,556,471)	(3,778,313)	(4,962,560)	(6,109,212)	(7,218,269)	(8,289,731)	(9,323,598)	(10,319,870)	(11,278,547)
Short Term Interest	(2,001)	(3,944)	(5,829)	(7,657)	(9,426)	(11,137)	(12,790)	(14,385)	(15,922)	(17,401)
Long Term Interest	(78,730)	(155,178)	(229,344)	(301,227)	(370,829)	(438,149)	(503,187)	(565,942)	(626,416)	(684,608)
Return on Rate Base - Interest	(80,731)	(159,122)	(235,173)	(308,884)	(380,255)	(449,286)	(515,977)	(580,327)	(642,338)	(702,009)
Deemed Equity	(926,452)	(1,826,050)	(2,698,795)	(3,544,686)	(4,363,723)	(5,155,906)	(5,921,236)	(6,659,713)	(7,371,336)	(8,056,105)
	9.30%	9.30%	9.30%	9.30%	9.30%	9.30%	9.30%	9.30%	9.30%	9.30%
Return on Capital - Equity	(86,160)	(169,823)	(250,988)	(329,656)	(405,826)	(479,499)	(550,675)	(619,353)	(685,534)	(749,218)
Return on Capital	**(166,891)**	**(328,945)**	**(486,161)**	**(638,540)**	**(786,081)**	**(928,785)**	**(1,066,652)**	**(1,199,681)**	**(1,327,872)**	**(1,451,227)**

Return on capital_HRZ

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Increased capitalization	6,280,254	12,533,776	18,676,461	24,825,384	30,984,067	36,977,010	42,804,213	48,465,675	53,961,397	59,291,379
Depreciation Expense	(78,503)	(236,157)	(395,042)	(556,578)	(722,318)	(888,058)	(1,053,799)	(1,219,539)	(1,385,279)	(1,551,020)
Increased Capital in Rate Base	6,201,751	12,297,619	18,281,419	24,268,806	30,261,749	36,088,952	41,750,414	47,246,136	52,576,118	57,740,360
Deemed ShortTerm Debt %	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Deemed LongTerm Debt %	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%	56.00%
Short Term Interest	1.76%	2.29%	2.29%	2.29%	2.29%	2.29%	2.29%	2.29%	2.29%	2.29%
Long Term Interest	3.47%	3.62%	3.74%	3.74%	3.74%	3.74%	3.74%	3.74%	3.74%	3.74%
Deemed ShortTerm Debt %	248,070	491,905	731,257	970,752	1,210,470	1,443,558	1,670,017	1,889,845	2,103,045	2,309,614
Deemed Long Term Debt %	3,472,980	6,886,667	10,237,594	13,590,531	16,946,580	20,209,813	23,380,232	26,457,836	29,442,626	32,334,601
Short Term Interest	4,366	11,265	16,746	22,230	27,720	33,057	38,243	43,277	48,160	52,890
Long Term Interest	120,512	249,297	382,886	508,286	633,802	755,847	874,421	989,523	1,101,154	1,209,314
Return on Rate Base - Interest	124,878	260,562	399,632	530,516	661,522	788,904	912,664	1,032,801	1,149,314	1,262,204
Deemed Equity	2,480,700	4,919,048	7,312,567	9,707,522	12,104,700	14,435,581	16,700,166	18,898,455	21,030,447	23,096,144
	8.78%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Return on Capital - Equity	217,805	442,714	658,131	873,677	1,089,423	1,299,202	1,503,015	1,700,861	1,892,740	2,078,653
Return on Capital	**342,684**	**703,276**	**1,057,763**	**1,404,193**	**1,750,945**	**2,088,107**	**2,415,679**	**2,733,661**	**3,042,054**	**3,340,857**

JT.Staff-8

Ref:
LRAMVA
PRZ-Staff-21
PRZ-Staff-21_Attach 1_LRAMVA Work Form PowerStream RZ (Tab 8)
HRZ-Staff-10
HRZ-Staff-14_Final_Attachment_LRAMVA_Work_Form - Horizon Utilities RZ (Tab 8)
ERZ-Staff-14
ERZ-Staff-19_Attach 1_LRAMVA Work Form Enersource RZ (Tab 8)

a) Can you confirm that the methodology used by Powerstream to calculate municipal streetlighting savings, also applied to Horizon and Enersource?

b) Can you confirm whether there is a free ridership assumption applied to the municipal streetlighting savings for Powerstream, Horizon and Enersource? If there is one, can you please identify where the free ridership assumption is applied.

c) Did any municipalities in the Powerstream, Horizon or Enersource rate zones that converted to LED streetlights receive any funding from the IESO to undertake the projects? Or were these all LDC funded?

d) Please explain why it is appropriate not to apply a free ridership assumption to municipal streetlighting projects? OR If there were municipal streetlighting projects that received funding from the IESO, can you explain why it is appropriate not to apply a free ridership assumption to these municipal streetlighting projects, when the streetlighting projects funded by the IESO in the saveONenergy program have a free ridership rate applied?

Response:

a) In response to PRZ-Staff-21, Alectra Utilities identified that in the PowerStream rate zone, Alectra Utilities calculated municipal streetlighting demand savings based on the LED streetlight installation reports that were used to adjust billing. For the Enersource and Horizon Utilities rate zones, a similar methodology was relied on, where billed demand kW for the municipal streetlighting customer the year before project implementation was compared to the billed demand kW after the project implementation. The difference was considered the demand savings from undertaking the LED Streetlight Projects, which was then compared to the demand kW included in rates to calculate LRAMVA.

b) According to the IESO Streetlighting Project Verified Results, the energy savings related to the LED Streetlight project were reported as both gross and net kWh savings. The total net

savings was adjusted by a realization rate and net to gross ratios. Therefore, in the IESO published street light energy savings, a free ridership assumption had been applied to the gross energy savings to calculate the net energy savings. For the demand kW savings, as described in response to part a) above, the reduction of demand savings was based on actual demand reductions from the implementation of the LED streetlighting project. In this regard, no free ridership assumption has been applied as the demand savings reflect actual demand reductions of implementing the LED municipal streetlighting initiative.

c) All of the municipalities in the Powerstream, Horizon and Enersource rate zones that converted to LED streetlights received funding through the programs offered by the LDC and funded by IESO.

d) Alectra Utilities submits that the free ridership related to streetlighting demand savings could be obtained by relying on the consumption savings information reported to and verified by the IESO.

All three rate zones' LRAMVA Workforms have been updated to reflect the net to gross ratios ("NTG") based on the IESO kWh savings for the municipalities streetlight project, and is provided as JTStaff 8_Attach 1_LRAMVA Workform HRZ SL, JTStaff 8_Attach 2_LRAMVA Workform PRZ SL and JTStaff 8_Attach 3_LRAMVA Workform ERZ SL. The total impact is a reduction to the LRAMVA claim of $260,449 for Alectra Utilities as provided in the analysis below. A NTG ratio of 64% was applied to 2013 when the first phase of the Streetlight project was completed for the Enersource rate zone. Correspondingly, a 72% NTG was applied to 2014 and 2015, as the second phase of Streetlight project was completed. For the PowerStream rate zone, an average of the NTG ratio of 76% is applied between the City of Markham and the City of Barrie.

Table 1 – Impact of free ridership on LRAMVA Streetlight savings

Rate Zones	City	SL Project ID	Gross Verified Incremental Energy Savings kWh	Total NTG Ratio	Net Energy Savings kWh	Average NTG	Original SL Rate Class Disposition including Carrying Charges ($)	Revised SL Rate Class Disposition for NTG including Carrying Charges ($)	Net LRAMVA Impact ($)
Horizon Utilities RZ	City of Hamilton	134184	12,983,154	78%	10,067,645		86,524	67,094	(19,430)
Enersource RZ	City of Mississauga	105215	7,976,079	64% for 2013 72% for 2014,2015	5,110,764		(1,313,773)	(1,515,195)	(201,422)
PowerStream RZ	City of Markham	118488	5,731,383	71%	4,077,739	76%	125,929	86,332	(39,596)
PowerStream RZ	City of Barrie	136829	7,934,352	79%	6,297,130				
Total							**(1,101,320)**	**(1,361,768)**	**(260,449)**

Ontario Energy Board

Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 2.0 (2017)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	**Tables 1-a and 1-b** provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	**Tables X-1 and X-2** include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	**Tables 2-a, 2-b and 2-c** include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	**Tables 3-a and 3-b** include the distribution rates that are used to calculate lost revenues.
4. 2011-2014 LRAM	**Tables 4-a, 4-b, 4-c and 4-d** include the template 2011-2014 LRAMVA work forms.
5. 2015-2020 LRAM	**Tables 5-a, 5-b, 5-c and 5-d** include the template 2015-2020 LRAMVA work forms.
6. Carrying Charges	**Table 6-b** includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Data	**Tables 7-a to 7-j** should be populated with CDM savings persistence data provided to LDCs from the IESO.

Ontario Energy Board

LRAMVA Work Form: Inputs-Outputs Schematic

Version 2.0 (2017)

General Note on the LRAMVA Model

The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2017, 2018, 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA work form.

The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA ($) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Legend	Drop Down List (Blue)

Important Checklist Items

Yes	Highlighted changes to this work form, if any, and provided rationale for the change in Tab 1-a
Yes	Included any necessary assumptions in the "Notes" section of the work form tables and summarized important assumptions in Tab 1-a
Yes	Included the basis and source of the LRAMVA threshold to determine forecast CDM savings in Tab 2
Yes	Included initiative-level persistence savings information as provided by the IESO directly in this work form (pasted in Tabs 7-a, 7-b, etc.)
Yes	Applied IESO verified savings adjustments back to year of program implementation in Tabs 4 and 5
Yes	Included documentation or data substantiating program savings that are included in the claim, but not provided in the IESO's verified results reports, in a new tab in this work form (streetlighting projects, etc.)
	Included documentation or analysis of how rate class allocations were determined each year in a new tab in this work form

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs	Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	LDC	
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c		
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets	
LRAMVA ($) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			Tables 1-a and 1-b
+ Carrying Charges ($) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6		Table 6-a
Total LRAMVA ($) by Rate Class	Tab "1. LRAMVA Summary"			

Ontario Energy Board

LRAMVA Work Form: Summary Tab

Version 2.0 (2017)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Auto Populated Cells (White)
	Instructions (Grey)

LDC Name: Alectra Utilities - Legacy Horizon Utilities Corporation

Application Details

Please fill in the requested information: a) the amounts approved in the previous LRAMVA application, b) details on the current application, and c) documentation of changes if applicable.

A. Previous LRAMVA Application

Previous LRAMVA Application (EB#)	EB-2014-0002
Application of Previous LRAMVA Claim	2013 COS/IRM Application
Period of LRAMVA Claimed in Previous Application	2011-2012
Amount of LRAMVA Claimed in Previous Application	-$ 244,468.00

B. Current LRAMVA Application

Current LRAMVA Application (EB#)		EB-20XX-XXXX
Application of Current LRAMVA Claim		2018 COS/IRM Application
Period of New LRAMVA in this Application		2013-2015
Actual Lost Revenues ($)	A	$ 1,999,666
Forecast Lost Revenues ($)	B	$ 710,954
Carrying Charges ($)	C	$ 51,220
LRAMVA ($) for Account 1568	A-B+C	$ 1,339,931

C. Documentation of Changes

Original Amount	
Amount for Final Disposition	

Table 1-a. LRAMVA Totals by Rate Class

Please update the customer rate classes applicable to the LDC in Table 1-a below. This will update all tables throughout the workform. The LRAMVA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or IRM Rate Generator Model. If the LDC has more than 14 customer classes, LDCs are required to add rows to Table 1-a and update all tables and formulas in the work form accordingly. Please also ensure that the principle amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMVA claim.

Customer Class	Billing Unit	Principle ($)	Carrying Charges ($)	Total LRAMVA ($)
Residential	kWh	$542,587	$21,010	$563,597
GS<50 kW	kWh	$290,889	$10,030	$300,919
General Service 50 to 4,999 kW	kW	$267,173	$12,810	$279,983
Large Use	kW	$113,717	$5,353	$119,070
Large Use	kW	$9,024	$245	$9,268
Street Lighting	kW	$65,323	$1,771	$67,094
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
Total		**$1,288,711**	**$51,220**	**$1,339,931**

Table 1-b. Annual LRAMVA Breakdown by Year and Rate Class

In column C of Table 1-b below, please indicate with a 'check mark' the years in which LRAMVA has been claimed. This is to ensure that there are no amounts claimed retroactively. If you have inserted a check-mark for a particular year, please delete the amounts associated with actual and forecast lost revenues for all rate classes for that year, up to and including the total. Any prior years that a distributor has claimed lost revenues should not be included in the current LRAMVA disposition, with the exception of the case noted below.

If LDCs are seeking to claim true-up amounts that were previously approved by the OEB, please note that the "Amount Cleared" rows are applicable to the LDC and should be filled out. This may relate to claiming the difference in LRAM approved before the May 19, 2016 Peak Demand Consultation, and the lost revenues that would have been incurred after that consultation, as approved by the OEB. If this is the case, reference to the decision must be noted in the rate application. If this is not the case, LDCs are requested to leave those rows blank.

Depending on the period of LRAMVA to be claimed in the current application, LDCs are expected to adjust the applicable totals for carrying charges in row 83 of this table and the years included in the Total LRAMVA balance in row 84, as appropriate.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting										Total
		kWh	kWh	kW	kW	kW	kW										
2011 Actuals	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2011 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																	
2012 Actuals	☐	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2012 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																	
2013 Actuals	☐	$265,984.56	$75,302.35	$179,540.52	$51,322.21	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$572,149.66
2013 Forecast		($181,089.59)	($36,903.85)	($62,690.96)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($280,684.39)
Amount Cleared																	
2014 Actuals	☐	$471,424.82	$115,386.34	$230,889.28	$60,520.38	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$878,220.82
2014 Forecast		($183,604.72)	($37,343.18)	($63,668.98)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($284,616.88)
Amount Cleared																	
2015 Actuals	☐	$221,804.71	$183,826.53	$67,443.48	$1,874.33	$9,023.53	$65,322.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$549,295.08
2015 Forecast		($51,933.06)	($9,379.35)	($84,340.42)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($145,652.84)
Amount Cleared																	
Carrying Charges		$21,010.19	$10,030.06	$12,810.46	$5,353.07	$244.71	$1,771.46	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$51,219.94
Total LRAMVA Balance		**$563,597**	**$300,919**	**$279,983**	**$119,070**	**$9,268**	**$67,094**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$1,339,931**

Note: LDC to make note of assumptions included above, if any

Table 1-c. Breakdown of Incremental and Persisting Lost Revenues Amounts (Dollars)

LDCs are requested to clear the cells in the table to show only the amounts related to this LRAMVA application. This table is a check on the LRAMVA disposition providing a breakdown of actual incremental and persisting savings by year.

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
2011	$ -	$ -	$ 199,236.33	$ 199,741.38	$ -	$ -	$ -	$ -	$ -	$ -	$ 398,977.71
2012		$ -	$ 127,798.88	$ 128,040.97	$ -	$ -	$ -	$ -	$ -	$ -	$ 255,839.84
2013			$ 245,114.45	$ 244,683.52	$ -	$ -	$ -	$ -	$ -	$ -	$ 489,797.97
2014				$ 305,754.96	$ -	$ -	$ -	$ -	$ -	$ -	$ 305,754.96
2015					$ 483,972.58	$ -	$ -	$ -	$ -	$ -	$ 483,972.58
2016						$ -	$ -	$ -	$ -	$ -	$ -
2017							$ -	$ -	$ -	$ -	$ -
2018								$ -	$ -	$ -	$ -
2019									$ -	$ -	$ -
2020										$ -	$ -
Actual Lost Revenues	$ -	$ -	$ 572,149.66	$ 878,220.82	$ 483,972.58	$ -	$ -	$ -	$ -	$ -	$ 1,934,343.06
Forecast Lost Revenues	$ -	$ -	$ 280,684.39	$ 284,616.88	$ 145,652.84	$ -	$ -	$ -	$ -	$ -	$ 710,954.11
Carrying Charges	$ -	$ -	$ 1,963.75	$ 10,247.69	$ 22,868.29	$ 37,044.11	$ 51,219.94	$ 51,219.94	$ 51,219.94	$ 51,219.94	$ 277,003.60
Total	$ -	$ -	$ 293,429.01	$ 603,851.64	$ 361,188.03	$ 37,044.11	$ 51,219.94	$ 51,219.94	$ 51,219.94	$ 51,219.94	$ 1,500,392.55

Note: LDC to make note of assumptions included above, if any

Ontario Energy Board

LRAMVA Work Form: Summary of Changes

Version 2.0 (2017)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Instructions (Grey)

Table X-1. Changes in Assumptions from Generic Inputs in Work Form

Please document any changes in assumptions made to the work form that affect the calculation of LRAMVA. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between savings and adjustments; claiming historical savings persistence beyond a re-basing year; inclusion of additional adjustments affecting distribution rates; use of a different LRAMVA threshold; etc. All important changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	1. LRAMVA Summary	I65	LED streetlight savings for 2015 times with the distribution volumetric rate to get the	The board approved Streetlight amount is 80,726 kW for the City of Hamilton in 2015. Horizon implem
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
etc.				

Table X-2. Updates to LRAMVA Disposition

LDCs are requested to document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
etc.				

Ontario Energy Board

LRAMVA Work Form: Forecast Lost Revenues

Version 2.0 (2017)

Legend

User Inputs (Green)	
Drop Down List (Blue)	
Auto Populated Cells (White)	
Instructions (Grey)	

Table 2-a. LRAMVA Threshold — **2011**

Please provide the LRAMVA threshold approved in the cost of service (COS) application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting								
		kWh	kWh	kW	kW	kW	kW								
kWh	28,142,000	12,575,666	4,393,315	11,173,019											
kW	30,468			30,468											
Summary		12,575,666	4,393,315	30,468	0	0	0	0	0	0	0	0	0	0	0

Basis of Threshold	0.5* 201X + 20XX + 0.5 * 20XX (if available)
Source of Threshold	EB-2010-0131, Decision and Order, Page 24

Table 2-b. LRAMVA Threshold — **2015**

Please provide the LRAMVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting								
		kWh	kWh	kW	kW	kW	kW								
kWh	19,534,205	3,350,520	928,649	15,255,036											
kW	34,728			34,728											
Summary		3,350,520	928,649	34,728	0	0	0	0	0	0	0	0	0	0	0

Basis of Threshold	0.5* 201X + 20XX + 0.5 * 20XX (if available)
Source of Threshold	EB-2014-0002, Exhibit 3, Tab 1, Schedule 2, Page 10 of 33

Table 2-c. Inputs for LRAMVA Thresholds

Please complete Table 2-c below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option, although it is generally expected that 2 COS applications would have been approved during the 2011 to 2020 period. The LRAMVA threshold values in Table 2-c will be auto-populated in Tabs 4 and 5 of this work form.

Year	LRAMVA Threshold (select year)	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting								
		kWh	kWh	kW	kW	kW	kW								
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	2011	12,575,666	4,393,315	30,468	0	0	0	0	0	0	0	0	0	0	0
2014	2011	12,575,666	4,393,315	30,468	0	0	0	0	0	0	0	0	0	0	0
2015	2015	3,350,520	928,649	34,728	0	0	0	0	0	0	0	0	0	0	0
2016		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above, if any

Ontario Energy Board

LRAMVA Work Form: Distribution Rates

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Tables

Table 3
Table 3-a.

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

The rate classes in column B of Table 3 below are auto-populated from the customer class inputs in Table 1-a of the Summary Tab. Please provide the distribution rates by rate year and applicable adjustments per rate class starting from column D of Table 3 below. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months from January to the start of the LDC's rate year, entered in row 16 of Table 3 (referred to as period 1). If rates are already on a January 1 to December 31 timeline, please enter 0 in row 16.

	Billing Unit	EB-2009-0228; May 1, 2010 - April 30, 2011	EB-2010-0131; May 1, 2011 - December 31, 2011	EB-2011-0172; January 1, 2012 - December 31, 2012	EB-2012-0132; January 1, 2013 - December 31, 2013	EB-2013-0137; January 1, 2014 - December 31, 2014	EB-2014-0002; January 1, 2015 - December 31, 2015	update	update	update	update	update	update
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months)		*8*	*4*	*0*	*0*	*0*	*0*						
Period 2 (# months)		*4*	*8*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*
Residential		$ 0.0127	$ 0.0142	$ 0.0143	$ 0.0145	$ 0.0147	$ 0.0155						
Rate rider for tax sharing	kWh	-$ 0.0002		-$ 0.0001	-$ 0.0001	-$ 0.0001							
Rate rider for foregone revenue			$ 0.0010										
Changes in Transformer Allowance													
Adjusted rate		$ 0.0125	$ 0.0152	$ 0.0142	$ 0.0144	$ 0.0146	$ 0.0155	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 0.0143**	**$ 0.0142**	**$ 0.0144**	**$ 0.0146**	**$ 0.0155**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
GS<50 kW		$ 0.0073	$ 0.0084	$ 0.0084	$ 0.0085	$ 0.0086	$ 0.0101						
Rate rider for tax sharing	kWh	-$ 0.0001		-$ 0.0001	-$ 0.0001	-$ 0.0001							
Rate rider for foregone revenue			$ 0.0007										
Changes in Transformer Allowance													
Adjusted rate		$ 0.0072	$ 0.0091	$ 0.0083	$ 0.0084	$ 0.0085	$ 0.0101	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 0.0085**	**$ 0.0083**	**$ 0.0084**	**$ 0.0085**	**$ 0.0101**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
General Service 50 to 4,999 kW		$ 1.8092	$ 2.0341	$ 2.0459	$ 2.0680	$ 2.1001	$ 2.4286						
Rate rider for tax sharing	kW	-$ 0.0217		-$ 0.0130	-$ 0.0104	-$ 0.0104							
Rate rider for foregone revenue			$ 0.1480										
Changes in Transformer Allowance													
Adjusted rate		$ 1.7875	$ 2.1821	$ 2.0329	$ 2.0576	$ 2.0897	$ 2.4286	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 2.0506**	**$ 2.0329**	**$ 2.0576**	**$ 2.0897**	**$ 2.4286**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Large Use		$ 1.0217	$ 1.3359	$ 1.3436	$ 1.3581	$ 1.3792	$ 1.3465						
Rate rider for tax sharing	kW	-$ 0.0094		-$ 0.0092	-$ 0.0074	-$ 0.0074							
Rate rider for foregone revenue			$ 0.1942										
Changes in Transformer Allowance													
Adjusted rate		$ 1.0123	$ 1.5301	$ 1.3344	$ 1.3507	$ 1.3718	$ 1.3465	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 1.3575**	**$ 1.3344**	**$ 1.3507**	**$ 1.3718**	**$ 1.3465**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Large Use							$ 0.2246						
Rate rider for tax sharing	kW												
Rate rider for foregone revenue													
Changes in Transformer Allowance													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ 0.2246	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	**$ 0.2246**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Street Lighting		$ 5.3728	$ 6.1604	$ 6.1961	$ 6.2630	$ 6.3601	$ 7.4960						
Rate rider for tax sharing	kW	-$ 0.1143		-$ 0.0672	-$ 0.0537	-$ 0.0537							
Rate rider for foregone revenue			$ 0.5411										
Changes in Transformer Allowance													
Adjusted rate		$ 5.2585	$ 6.7015	$ 6.1289	$ 6.2093	$ 6.3064	$ 7.4960	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 6.2205**	**$ 6.1289**	**$ 6.2093**	**$ 6.3064**	**$ 7.4960**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	

Note: LDC to make note of assumptions affecting the distribution rates above, if any

Table 3-a. Distribution Rates by Rate Class

Table 3-a below pulls the average distribution rates from Table 3 above. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used by clearing the rates for year(s) that are not part of the LRAMVA claim. The distribution rates that remain in Table 3-a will be carried over to Tabs 4 and 5 of the work form to calculate lost revenues.

Year	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting								
	kWh	kWh	kW	kW	kW	kW								
2011	$0.0143	$0.0085	$2.0506	$1.3575	$0.0000	$6.2205	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2012	$0.0142	$0.0083	$2.0329	$1.3344	$0.0000	$6.1289	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2013	$0.0144	$0.0084	$2.0576	$1.3507	$0.0000	$6.2093	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2014	$0.0146	$0.0085	$2.0897	$1.3718	$0.0000	$6.3064	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2015	$0.0155	$0.0101	$2.4286	$1.3465	$0.2246	$7.4960	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2016	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000

Note: LDC to make note of assumptions affecting the distribution rates above, if any

Ontario Energy Board

LRAMVA Work Form:
2011 - 2014 Lost Revenues Work Form

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2011-2014 period. Please input or manually link the savings, adjustments and program savings persistence in these tables from the LDC's Persistence Reports provided by the IESO (which are pasted following Tab 7. Persistence Data, tabs "7-a. 2011, 7-b. 2012, ... 7-j. 2020") to complete the tables below.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments can be claimed as past approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless suported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the change.

4. LDC are requested to input the applicable rate class allocation percentages indicating the customer's share of consumption to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for programs and its savings adjustments. If a different allocation is proposed for savings adjustments, please highlight the change and provide rationale in Tab 1-a. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1. LDCs would need to manually update the tables and formulas below if more rate classes are needed.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. LDCs are requested to provide assumptions about the years that persistence is captured in the load forecast calculation in the "Notes" section below each table. If this is not the case, the LDC is requested to clearly articulate the rationale for including the persistence of future savings beyond the re-basing year in Tab 1-a.

Tables

Table 4-a. 2011 Lost Revenues Work Form Go to Persistence Report

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA									Total
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting						
	Consumer Program																							kWh	kWh	kW	kW	kW	kW						
1	Appliance Retirement	Verified	1,238,865	1,238,865	1,238,865	1,235,024	845,705	0	0	0	0	0		172	172	172	167	111	0	0	0	0	0	100.00%										100%
	Adjustment to 2011 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Appliance Exchange	Verified	21,438	21,438	21,438	10,248	0	0	0	0	0	0		18	18	18	6	0	0	0	0	0	0	100.00%										100%
	Adjustment to 2011 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	HVAC Incentives	Verified	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047		1,693	1,693	1,693	1,693	1,693	1,693	1,693	1,693	1,693	1,693	100.00%										100%
	Adjustment to 2011 savings	True-up	-545,322	-545,322	-545,322	-545,322	-545,322	-545,322	-545,322	-545,322	-545,322	-545,322		-298	-298	-298	-298	-298	-298	-298	-298	-298	-298	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	Conservation Instant Coupon Booklet	Verified	810,293	810,293	810,293	810,293	745,857	675,463	534,237	530,959	665,790	261,108		50	50	50	50	47	44	37	37	43	24	100.00%										100%
	Adjustment to 2011 savings	True-up	11,144	11,144	11,144	11,144	11,144	10,182	6,247	6,238	6,238	2,210		1	1	1	1	1	1	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Bi-Annual Retailer Event	Verified	1,188,091	1,188,091	1,188,091	1,188,091	1,085,828	974,110	734,417	731,737	945,719	303,473		68	68	68	68	63	58	47	47	57	27	100.00%										100%
	Adjustment to 2011 savings	True-up	88,271	88,271	88,271	88,271	88,271	80,213	43,306	43,297	43,297	9,552		4	4	4	4	4	4	2	2	2	1	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6	Retailer Co-op	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Residential Demand Response	Verified	2,830	0	0	0	0	0	0	0	0	0		1,093	0	0	0	0	0	0	0	0	0	100.00%										100%
	Adjustment to 2011 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Residential Demand Response (IHD)	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	Residential New Construction	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Business Program																																	
10	Retrofit	Verified	4,805,916	4,805,916	4,805,916	4,805,916	4,805,916	4,805,916	4,805,916	4,805,916	4,504,954	4,504,954	12	857	857	857	857	857	857	857	857	789	789			53.00%	47.00%							100%
	Adjustment to 2011 savings	True-up	615,841	615,841	615,841	615,841	615,841	611,887	545,801	248,054	248,054	248,054	12	112	112	112	112	112	111	96	48	48	48	0.00%	0.00%	53.00%	47.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11	Direct Install Lighting	Verified	1,693,346	1,693,346	1,614,579	1,362,735	1,362,338	1,358,309	305,906	304,862	304,862	304,862	12	661	661	633	544	544	542	112	111	111	111		100.00%										100%
	Adjustment to 2011 savings	True-up	60,847	60,847	60,847	56,320	56,320	56,320	15,838	15,838	15,838	15,838	12	28	28	28	26	26	26	7	7	7	7	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Building Commissioning	Verified											3																					0%
	Adjustment to 2011 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	New Construction	Verified											12																					0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14	Energy Audit	Verified	0	0	0	0	0	0	0	0	0	0	12		0	0	0	0	0	0	0	0	0		100.00%									100%
	Adjustment to 2011 savings	True-up	263,983	263,983	263,983	263,983	0	0	0	0	0	0	12	54	54	54	54	0	0	0	0	0	0	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15	Small Commercial Demand Response	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Small Commercial Demand Response (IHD)	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	Demand Response 3	Verified	20,936	0	0	0	0	0	0	0	0	0		536	0	0	0	0	0	0	0	0	0											0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																	
18	Process & System Upgrades	Verified											12																					0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Monitoring & Targeting	Verified											12																					0%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Energy Manager	Verified											12																					100%
	Adjustment to 2011 savings	True-up											12											100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	Retrofit	Verified	402,527	402,527	402,527	402,527	402,527	402,527	402,527	402,527	357,485	357,485	12	70	70	70	70	70	70	70	70	57	57			53.00%	47.00%							100%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	53.00%	47.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Demand Response 3	Verified	205,346	0	0	0	0	0	0	0	0	0		3,498	0	0	0	0	0	0	0	0	0											0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Home Assistance Program																																	
23	Home Assistance Program	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Aboriginal Program																																	
24	Home Assistance Program	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25	Direct Install Lighting	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pre-2011 Programs completed in 2011																																	
26	Electricity Retrofit Incentive Program	Verified	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	12	3,066	3,066	3,066	3,066	3,066	3,066	3,066	3,066	3,066	3,066			53.00%	47.00%							100%
	Adjustment to 2011 savings	True-up											12											0.00%	0.00%	53.00%	47.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	High Performance New Construction	Verified	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	12	242	242	242	242	242	242	242	242	242	242			100.00%								100%
	Adjustment to 2011 savings	True-up	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	12	295	295	295	295	295	295	295	295	295	295	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Toronto Comprehensive	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Multifamily Energy Efficiency Rebates	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	LDC Custom Programs	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																	
31	Program Enabled Savings	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Time of Use Savings	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33	LDC Pilots	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2011		**34,567,923**	**34,338,810**	**34,260,043**	**33,988,641**	**33,157,995**	**32,113,175**	**30,532,443**	**30,227,676**	**30,230,485**	**29,145,783**		**12,220**	**7,091**	**7,064**	**6,996**	**6,832**	**6,710**	**6,227**	**6,177**	**6,112**	**6,062**	**5,885,687**	**2,010,176**	**32,552**	**23,152**	**0**	**0**	**0**	**0**	**0**	**0**	
	Forecast CDM Savings in 2011														**0**	**0**									**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Distribution Rate in 2011																							$0.01430	$0.00850	$2.05060	$1.35750	$1.35750	$6.22050	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000
	Lost Revenue in 2011 from 2011 programs																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
	Forecast Lost Revenues in 2011																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
	LRAMVA in 2011																																	**$ -**

2011 Savings Persisting in 2012												0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011 Savings Persisting in 2013												5,882,827	1,939,409	32,546	23,147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011 Savings Persisting in 2014												5,867,796	1,683,038	32,546	23,147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011 Savings Persisting in 2015												5,301,530	1,418,658	32,546	23,147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011 Savings Persisting in 2016												4,264,693	1,414,629	32,543	23,144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011 Savings Persisting in 2017												3,842,932	321,744	32,448	23,060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011 Savings Persisting in 2018												3,836,956	320,700	32,143	22,790	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011 Savings Persisting in 2019												4,185,769	320,700	31,630	22,335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2011 Savings Persisting in 2020												3,101,067	320,700	31,630	22,335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 4-b. 2012 Lost Revenues Work Form Return to top Go to Persistence Report

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA										
			2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting						Total
	Consumer Program																							kWh	kWh	kW	kW	kW	kW						
1	Appliance Retirement	Verified	669,778	669,778	669,778	667,421	389,535	0	0	0	0	0		96	96	96	93	51	0	0	0	0	0	100.00%											100%
	Adjustment to 2012 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Appliance Exchange	Verified	33,812	33,812	33,812	33,507	0	0	0	0	0	0		19	19	19	19	0	0	0	0	0	0	100.00%											100%
	Adjustment to 2012 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	HVAC Incentives	Verified	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136		1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	100.00%											100%
	Adjustment to 2012 savings	True-up	33,877	33,877	33,877	33,877	33,877	33,877	33,877	33,877	33,877	33,877		18	18	18	18	18	18	18	18	18	18	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	Conservation Instant Coupon Booklet	Verified	56,527	56,527	56,527	56,527	55,678	55,678	26,219	26,074	26,074	26,074		9	9	9	9	9	9	8	8	8	8	100.00%											100%
	Adjustment to 2012 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	BI-Annual Retailer Event	Verified	1,082,743	1,082,743	1,082,743	1,082,743	973,317	791,446	539,847	538,725	538,725	273,631		60	60	60	60	55	46	35	35	35	22	100.00%											100%
	Adjustment to 2012 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6	Retailer Co-op	Verified																																	0%
	Adjustment to 2012 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Residential Demand Response	Verified	13,650	0	0	0	0	0	0	0	0	0		2,699	0	0	0	0	0	0	0	0	0	100.00%											100%
	Adjustment to 2012 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Residential Demand Response (IHD)	Verified																																	0%
	Adjustment to 2012 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	Residential New Construction	Verified																																	0%
	Adjustment to 2012 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Business Program																																		
10	Retrofit	Verified	9,600,471	9,532,535	9,389,579	9,295,397	9,282,626	8,799,102	8,577,353	8,546,488	8,314,197	6,213,056	12	1,659	1,640	1,597	1,568	1,565	1,418	1,390	1,385	1,330	999			49%	51.00%								100%
	Adjustment to 2012 savings	True-up	1,846,854	1,846,854	1,816,814	1,816,814	1,816,814	1,757,158	1,748,715	1,748,715	1,721,077	1,668,554	12	273	273	264	264	264	247	245	245	237	226	0.00%	0.00%	49.00%	51.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11	Direct Install Lighting	Verified	1,875,038	1,875,038	1,817,432	1,557,887	1,557,887	508,602	508,602	508,460	508,460	508,460	12	550	550	534	467	467	136	136	136	136	136		100%										100%
	Adjustment to 2012 savings	True-up											12											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Building Commissioning	Verified											3																						0%
	Adjustment to 2012 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	New Construction	Verified	1,331	1,331	1,331	1,331	1,331	1,331	1,331	1,331	1,331	1,331	12		0	0	0	0	0	0	0	0	0			100.00%									100%
	Adjustment to 2012 savings	True-up	224,538	224,538	224,538	224,538	224,538	224,388	224,388	224,388	224,388	224,388	12	85	85	85	85	85	85	85	85	85	85	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14	Energy Audit	Verified	75,529	75,529	75,529	75,529	0	0	0	0	0	0	12	16	16	16	16	0	0	0	0	0	0			100.00%									100%
	Adjustment to 2012 savings	True-up	28,592	28,592	28,592	28,592	0	0	0	0	0	0	12	6	6	6	6	0	0	0	0	0	0	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15	Small Commercial Demand Response	Verified	33	0	0	0	0	0	0	0	0	0		6	0	0	0	0	0	0	0	0	0												0%
	Adjustment to 2012 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Small Commercial Demand Response (IHD)	Verified																																	0%
	Adjustment to 2012 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	Demand Response 3	Verified	7,718	0	0	0	0	0	0	0	0	0		531	0	0	0	0	0	0	0	0	0												0%
	Adjustment to 2012 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																		
18	Process & System Upgrades	Verified											12																						0%
	Adjustment to 2012 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Monitoring & Targeting	Verified											12																						0%
	Adjustment to 2012 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Energy Manager	Verified	479,921	479,921	479,921	479,921	479,921	479,921	479,921	479,921	479,921	479,921	12	60	60	60	60	60	60	60	60	60	60			100.00%									100%
	Adjustment to 2012 savings	True-up	5,452	3,878	3,878	3,878	3,878	3,878	5,452	5,452	5,452	5,452	12	7	6	6	6	6	6	7	7	7	7	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	Retrofit	Verified											12																						0%
	Adjustment to 2012 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Demand Response 3	Verified	155,311	0	0	0	0	0	0	0	0	0		6,445	0	0	0	0	0	0	0	0	0												0%
	Adjustment to 2012 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Home Assistance Program																																		
23	Home Assistance Program	Verified	286,839	286,839	286,839	286,839	281,080	281,080	265,687	259,543	71,679	69,194		24	24	24	24	24	24	23	23	13	11	100%											100%
	Adjustment to 2012 savings	True-up	13,531	13,531	13,100	12,931	11,246	10,320	9,650	9,180	8,958	2,619		1	1	1	1	1	1	1	1	1	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Aboriginal Program																																		
24	Home Assistance Program	Verified																																	0%
	Adjustment to 2012 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25	Direct Install Lighting	Verified											0																						0%
	Adjustment to 2012 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pre-2011 Programs completed in 2011																																		
26	Electricity Retrofit Incentive Program	Verified											12													49%	51.00%								100%
	Adjustment to 2012 savings	True-up											12											0.00%	0.00%	49.00%	51.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	High Performance New Construction	Verified	582,164	582,164	582,164	582,164	582,164	582,164	582,164	582,164	582,164	582,164	12	146	146	146	146	146	146	146	146	146	146			100.00%									100%
	Adjustment to 2012 savings	True-up	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	12	296	296	296	296	296	296	296	296	296	296	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Toronto Comprehensive	Verified											0																						0%
	Adjustment to 2012 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Multifamily Energy Efficiency Rebates	Verified											0																						0%
	Adjustment to 2012 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	LDC Custom Programs	Verified											0																						0%
	Adjustment to 2012 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																		
31	Program Enabled Savings	Verified											0																						0%
	Adjustment to 2012 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Time of Use Savings	Verified											0																						0%
	Adjustment to 2012 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33	LDC Pilots	Verified											0																						0%
	Adjustment to 2012 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2012		21,556,239	21,310,016	21,078,983	20,722,426	20,176,420	18,011,474	17,485,736	17,446,848	16,998,833	14,971,251		14,097	4,396	4,327	4,229	4,139	3,884	3,541	3,836	3,463	3,105	4,033,893	1,875,038	18,752	11,824	0	0	0	0	0	0	0	0
	Forecast CDM Savings in 2012																							0	0	0	0	0	0	0	0	0	0	0	0

Distribution Rate in 2012												$0.01420	$0.00830	$2.03290	$1.33440	$1.33440	$6.12890	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000				
Lost Revenue in 2012 from 2011 programs												$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$	-		
Lost Revenue in 2012 from 2012 programs												$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$	-		
Total Lost Revenues in 2012												**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$**	**-**		
Forecast Lost Revenues in 2012												**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$**	**-**		
LRAMVA in 2012																											**$**	**-**		
2012 Savings Persisting in 2013												4,020,243	1,875,038	18,632	11,712	0	0	0	0	0	0	0	0	0	0	0				
2012 Savings Persisting in 2014												4,019,812	1,817,432	18,320	11,387	0	0	0	0	0	0	0	0	0	0	0				
2012 Savings Persisting in 2015												4,016,981	1,557,887	18,150	11,210	0	0	0	0	0	0	0	0	0	0	0				
2012 Savings Persisting in 2016												3,587,868	1,557,887	17,878	11,194	0	0	0	0	0	0	0	0	0	0	0				
2012 Savings Persisting in 2017												3,015,536	508,602	16,912	10,190	0	0	0	0	0	0	0	0	0	0	0				
2012 Savings Persisting in 2018												2,718,416	508,602	16,745	10,006	0	0	0	0	0	0	0	0	0	0	0				
2012 Savings Persisting in 2019												2,710,535	508,460	16,717	9,977	0	0	0	0	0	0	0	0	0	0	0				
2012 Savings Persisting in 2020												2,522,449	508,460	16,347	9,592	0	0	0	0	0	0	0	0	0	0	0				

Note: LDC to make note of assumptions included above

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	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA										
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting						Total
	Consumer Program																							kWh	kWh	kW	kW	kW	kW						
1	Appliance Retirement	Verified	373,209	373,209	373,209	371,876	221,985	0	0	0	0	0		57	57	57	56	33	0	0	0	0	0	100.00%											100%
	Adjustment to 2013 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Appliance Exchange	Verified	65,760	65,760	65,760	65,760				-	-			37	37	37	37							100.00%											100%
	Adjustment to 2013 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	HVAC Incentives	Verified	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842		974	974	974	974	974	974	974	974	974	974	100.00%											100%
	Adjustment to 2013 savings	True-up	95,215	95,215	95,215	95,215	95,215	95,215	95,215	95,215	95,215	95,215		55	55	55	55	55	55	55	55	55	55	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	Conservation Instant Coupon Booklet	Verified	311,606	311,606	299,598	253,821	253,821	253,821	253,821	253,609	184,417	184,417		21	21	20	17	17	17	17	17	13	13	100.00%											100%
	Adjustment to 2013 savings	True-up	953	953	907	784	784	784	784	784	658	658		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

5	Bi-Annual Retailer Event	Verified	694,555	694,555	652,707	509,888	509,888	509,888	509,888	509,287	428,281	428,281		48	48	45	36	36	36	36	36	31	31	100.00%														100%
	Adjustment to 2013 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6	Retailer Co-op	Verified																																				0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Residential Demand Response	Verified	11,153											3,738										100.00%														100%
	Adjustment to 2013 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Residential Demand Response (IHD)	Verified																																				0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	Residential New Construction	Verified																																				0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Business Program																																					
10	Retrofit	Verified	16,367,574	16,081,473	16,026,304	15,831,594	14,987,208	14,408,587	14,408,587	14,355,091	13,955,334	10,888,141	12	2,948	2,856	2,838	2,775	2,525	2,409	2,409	2,407	2,287	1,812			92%	8%											100%
	Adjustment to 2013 savings	True-up	1,570,842	1,560,330	1,560,330	1,560,330	1,541,513	1,514,546	1,514,546	1,495,923	1,386,189	1,189,601	12	320	317	317	317	312	307	307	306	281	245	0.00%	0.00%	92.00%	8.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11	Direct Install Lighting	Verified	1,442,489	1,442,489	1,420,165	1,300,853	586,963	586,963	586,963	586,963	586,963	586,963	12	453	453	447	414	177	177	177	177	177	177		100%													100%
	Adjustment to 2013 savings	True-up											12											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Building Commissioning	Verified											3												100.00%													100%
	Adjustment to 2013 savings	True-up											3											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	New Construction	Verified	20,831	20,831	20,831	20,831	20,831	20,831	20,831	20,831	20,831	20,831	12	6	6	6	6	6	6	6	6	6	6		100.00%													100%
	Adjustment to 2013 savings	True-up	3,201,970	3,201,970	3,201,970	3,201,970	3,201,970	3,201,970	3,201,970	3,201,970	3,175,501	3,175,501	12	581	581	581	581	581	581	581	581	573	573	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14	Energy Audit	Verified	387,606	387,606	387,606	387,606		-	-	-	-	-	12	71	71	71	71						-		100.00%													100%
	Adjustment to 2013 savings	True-up	97,223	97,223	97,223	97,223	0	0	0	0	0	0	12	18	18	18	18	0	0	0	0	0	0	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15	Small Commercial Demand Response	Verified	18											13																								0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Small Commercial Demand Response (IHD)	Verified																																				0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	Demand Response 3	Verified	9,571											597																								0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																					
18	Process & System Upgrades	Verified											12																									0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Monitoring & Targeting	Verified											12																									0%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Energy Manager	Verified	178,203	126,236	126,236	126,236	74,270	-	-	-	-	-	12	23	17	17	17	11						100.00%														100%
	Adjustment to 2013 savings	True-up	-153,586	-101,619	-101,619	-112,087	-60,121	12,575	12,575	12,575	12,575	12,575	12	-21	-15	-15	-15	-9	3	3	3	3	3	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	Retrofit	Verified											12													92.00%	8.00%											100%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	92.00%	8.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Demand Response 3	Verified	331,641											13,261																								0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Home Assistance Program																																					
23	Home Assistance Program	Verified	4,634,362	4,542,446	4,441,123	4,111,708	3,950,956	3,831,294	3,692,431	3,684,889	2,333,239	2,314,718		808	803	798	781	773	767	759	759	689	669	100%														100%
	Adjustment to 2013 savings	True-up	716,808	712,242	705,966	683,511	672,234	663,399	658,361	658,361	567,708	567,708		200	200	199	198	197	197	197	197	192	192	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Aboriginal Program																																					
24	Home Assistance Program	Verified																																				0%
	Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25	Direct Install Lighting	Verified											0																									0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pre-2011 Programs completed in 2011																																					
26	Electricity Retrofit Incentive Program	Verified											12													92.00%	8.00%											100%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	92.00%	8.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	High Performance New Construction	Verified											12													100.00%												100%
	Adjustment to 2013 savings	True-up											12											0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Toronto Comprehensive	Verified											0																									0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Multifamily Energy Efficiency Rebates	Verified											0																									0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	LDC Custom Programs	Verified											0																									0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																					
31	Program Enabled Savings	Verified											0																									0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Time of Use Savings	Verified											0																									0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33	LDC Pilots	Verified											0																									0%
	Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2013		**31,997,845**	**31,252,365**	**31,013,372**	**30,146,961**	**27,697,360**	**26,739,714**	**26,595,813**	**26,515,340**	**24,386,751**	**21,104,449**		**24,208**	**6,498**	**6,466**	**6,339**	**5,688**	**5,529**	**5,521**	**5,518**	**5,282**	**4,751**	**8,568,080**	**5,150,119**	**36,079**	**3,137**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Forecast CDM Savings in 2013																							**12,575,666**	**4,393,315**	**30,468**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

Distribution Rate in 2013	$0.01440	$0.00840	$2.05760	$1.35070	$1.35070	$6.20930	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2013 from 2011 programs	$84,712.71	$16,291.03	$66,967.33	$31,265.26	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 199,236.33
Lost Revenue in 2013 from 2012 programs	$57,891.50	$15,750.32	$38,337.62	$15,819.43	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 127,798.88
Lost Revenue in 2013 from 2013 programs	$123,380.35	$43,261.00	$74,235.57	$4,237.52	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 245,114.45
Total Lost Revenues in 2013	**$265,984.56**	**$75,302.35**	**$179,540.52**	**$51,322.21**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 572,149.66**
Forecast Lost Revenues in 2013	**$181,089.59**	**$36,903.85**	**$62,690.96**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 280,684.39**
LRAMVA in 2013															**$ 291,465.26**
2013 Savings Persisting in 2014	8,460,445	5,150,118	35,032	3,046	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2015	8,298,943	5,127,794	34,836	3,029	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2016	7,746,554	5,008,483	34,145	2,969	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2017	7,358,874	3,809,764	31,315	2,723	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2018	7,006,817	3,809,764	29,980	2,607	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2019	6,862,916	3,809,764	29,980	2,607	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2020	6,854,562	3,809,764	29,947	2,604	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 4-d. 2014 Lost Revenues Work Form

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	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA														
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting									Total
	Consumer Program																							kWh	kWh	kW	kW	kW	kW									
1	Appliance Retirement	Verified	263,320	263,320	263,320	0	0	0	0	0	0	0		39	39	39	0	0	0	0	0	0	0	100%														100%
	Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Appliance Exchange	Verified	74,996	74,996	74,996	74,996						-		42	42	42	42							100%														100%
	Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	HVAC Incentives	Verified	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819		1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	100%														100%
	Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	Conservation Instant Coupon Booklet	Verified	1,153,159	1,074,242	1,035,848	1,035,848	1,035,848	1,035,848	1,035,848	1,033,860	1,033,860	886,443		86	81	79	79	79	79	79	79	79	70	100%														100%
	Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Bi-Annual Retailer Event	Verified	4,968,775	4,310,360	3,967,230	3,967,230	3,967,230	3,967,230	3,967,230	3,965,512	3,965,512	3,688,146		325	284	262	262	262	262	262	262	262	245	100%														100%
	Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6	Retailer Co-op	Verified																																				0%
	Adjustment to 2014 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Residential Demand Response	Verified	1,510											4,457										100.00%														100%
	Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Residential Demand Response (IHD)	Verified																																				0%
	Adjustment to 2014 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	Residential New Construction	Verified																																				0%
	Adjustment to 2014 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Business Program																																					
10	Retrofit	Verified	19,282,049	19,255,189	19,255,189	18,858,307	18,858,307	18,752,564	18,193,283	18,193,283	17,398,196	14,887,215	12	2,594	2,586	2,586	2,473	2,473	2,443	2,362	2,362	2,260	1,920			79%	21%											100%
	Adjustment to 2014 savings	True-up											12											0.00%	0.00%	79.00%	21.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11	Direct Install Lighting	Verified	2,940,240	2,919,374	2,709,943	1,775,115	1,775,115	1,775,115	1,775,115	1,775,115	1,775,115	1,775,115	12	852	847	789	497	497	497	497	497	497	497		100%													100%
	Adjustment to 2014 savings	True-up											12											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Building Commissioning	Verified	157,250	157,250	157,250								3	133	133	133								-	100.00%													100%
	Adjustment to 2014 savings	True-up											3											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	New Construction	Verified	521,315	521,315	521,315	521,315	521,315	521,315	521,315	521,315	521,315	521,315	12	151	151	151	151	151	151	151	151	151	151		100.00%													100%
	Adjustment to 2014 savings	True-up											12											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14	Energy Audit	Verified	1,305,471	1,305,471	1,305,471	1,305,471							12	267	267	267	267							-	100.00%													100%
	Adjustment to 2014 savings	True-up											12											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15	Small Commercial Demand Response	Verified												12											100.00%													100%

	Adjustment to 2014 savings	True-up																					
16	Small Commercial Demand Response (IHD)	Verified																					
	Adjustment to 2014 savings	True-up																					
17	Demand Response 3	Verified												595									
	Adjustment to 2014 savings	True-up																					
	Industrial Program																						
18	Process & System Upgrades	Verified											12										
	Adjustment to 2014 savings	True-up											12										
19	Monitoring & Targeting	Verified											12										
	Adjustment to 2014 savings	True-up											12										
20	Energy Manager	Verified	1,056,692	1,056,692	1,055,205	1,055,205	1,055,205	1,055,205	1,055,205	1,055,205	1,055,205	1,055,205	12	41	41	41	41	41	41	41	41	41	41
	Adjustment to 2014 savings	True-up											12										
21	Retrofit	Verified											12										
	Adjustment to 2014 savings	True-up											12										
22	Demand Response 3	Verified												17,093									
	Adjustment to 2014 savings	True-up																					
	Home Assistance Program																						
23	Home Assistance Program	Verified	4,387,048	4,302,015	3,979,382	3,842,943	3,737,111	3,737,111	3,673,667	3,668,714	2,357,679	2,341,311		717	713	696	689	683	683	680	680	612	595
	Adjustment to 2014 savings	True-up																					
	Aboriginal Program																						
24	Home Assistance Program	Verified																					
	Adjustment to 2014 savings	True-up																					
25	Direct Install Lighting	Verified											0										
	Adjustment to 2014 savings	True-up											0										
	Pre-2011 Programs completed in 2011																						
26	Electricity Retrofit Incentive Program	Verified											12										
	Adjustment to 2014 savings	True-up											12										
27	High Performance New Construction	Verified											12										
	Adjustment to 2014 savings	True-up											12										
28	Toronto Comprehensive	Verified											0										
	Adjustment to 2014 savings	True-up											0										
29	Multifamily Energy Efficiency Rebates	Verified											0										
	Adjustment to 2014 savings	True-up											0										
30	LDC Custom Programs	Verified											0										
	Adjustment to 2014 savings	True-up											0										
	Other																						
31	Program Enabled Savings	Verified											0										
	Adjustment to 2014 savings	True-up											0										
32	Time of Use Savings	Verified											0	2,487									
	Adjustment to 2014 savings	True-up											0										
33	LDC Pilots	Verified											0										
	Adjustment to 2014 savings	True-up											0										
	Actual CDM Savings in 2014		**38,147,644**	**37,276,045**	**36,360,969**	**34,472,250**	**32,985,951**	**32,880,208**	**32,257,482**	**32,248,823**	**30,142,701**	**27,190,568**		**31,000**	**6,294**	**6,195**	**5,610**	**5,295**	**5,265**	**5,182**	**5,181**	**5,011**	**4,627**
	Forecast CDM Savings in 2014																						

	Adjustment to 2014 savings	True-up	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Small Commercial Demand Response (IHD)	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	Demand Response 3	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																
18	Process & System Upgrades	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Monitoring & Targeting	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Energy Manager	Verified	100.00%														100%
	Adjustment to 2014 savings	True-up	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	Retrofit	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Demand Response 3	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Home Assistance Program																
23	Home Assistance Program	Verified	100%														100%
	Adjustment to 2014 savings	True-up	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Aboriginal Program																
24	Home Assistance Program	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25	Direct Install Lighting	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pre-2011 Programs completed in 2011																
26	Electricity Retrofit Incentive Program	Verified			79.00%	21.00%											100%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	79.00%	21.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	High Performance New Construction	Verified			100.00%												100%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Toronto Comprehensive	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Multifamily Energy Efficiency Rebates	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	LDC Custom Programs	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																
31	Program Enabled Savings	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Time of Use Savings	Verified	100.00%														100%
	Adjustment to 2014 savings	True-up	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33	LDC Pilots	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2014		**13,941,319**	**4,924,276**	**24,591**	**6,537**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Forecast CDM Savings in 2014		**12,575,666**	**4,393,315**	**30,468**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Distribution Rate in 2014		$0.01460	$0.00850	$2.08970	$1.37180	$1.37180	$6.30640	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
	Lost Revenue in 2014 from 2011 programs		$85,669.82	$14,305.82	$68,012.06	$31,753.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 199,741.38
	Lost Revenue in 2014 from 2012 programs		$58,689.26	$15,448.17	$38,282.97	$15,620.57	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 128,040.97
	Lost Revenue in 2014 from 2013 programs		$123,522.49	$43,776.00	$73,206.18	$4,178.85	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 244,683.52
	Lost Revenue in 2014 from 2014 programs		$203,543.26	$41,856.35	$51,388.06	$8,967.29	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 305,754.96
	Total Lost Revenues in 2014		**$471,424.82**	**$115,386.34**	**$230,889.28**	**$60,520.38**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 878,220.82**
	Forecast Lost Revenues in 2014		**$183,604.72**	**$37,343.18**	**$63,668.98**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 284,616.88**
	LRAMVA in 2014																**$ 593,603.94**
	2014 Savings Persisting in 2015		13,117,445	4,903,411	24,517	6,517	0	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2016		12,411,800	4,693,980	24,517	6,517	0	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2017		12,012,041	3,601,902	23,440	6,231	0	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2018		11,831,213	2,296,430	23,440	6,231	0	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2019		11,831,213	2,296,430	23,155	6,155	0	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2020		11,767,768	2,296,430	22,395	5,953	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Ontario Energy Board

LRAMVA Work Form:
2015 - 2020 Lost Revenues Work Form

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2015-2020 period. Please input or manually link the savings, adjustments and program savings persistence in these tables from the LDC's Persistence Reports provided by the IESO (which are pasted following Tab 7. Persistence Data, tabs "7-a. 2011, 7-b. 2012, ... 7-j. 2020") to complete the tables below.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2016 programs that were reported by the IESO in 2017 should be included in the 2016 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments can be claimed as past approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless suported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the change.

4. LDC are requested to input the applicable rate class allocation percentages indicating the customer's share of consumption to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for programs and its savings adjustments. If a different allocation is proposed for savings adjustments, please highlight the change and provide rationale in Tab 1-a. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1. LDCs would need to manually update the tables and formulas below if more rate classes are needed.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. LDCs are requested to provide assumptions about the years that persistence is captured in the load forecast calculation in the "Notes" section below each table. If this is not the case, the LDC is requested to clearly articulate the rationale for including the persistence of future savings beyond the re-basing year in Tab 1-a.

Tables

Table 5-a. 2015 Lost Revenues Work Form Go to Persistence Report

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA										
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting							Total
	Legacy Framework																							kWh	kWh	kW	kW	kW	kW							
	Residential Program																																			
1	Coupon Initiative	Verified	585,232	580,190	580,190	580,190	580,190	580,190	580,190	580,033	580,033	580,033		38	37	37	37	37	37	37	37	37	37	100.00%												100%
	Adjustment to 2015 savings	True-up	3,141	3,081	3,081	3,081	3,081	3,081	3,081	3,064	3,064	3,064												100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Bi-Annual Retailer Event Initiative	Verified	1,375,807	1,328,446	1,328,446	1,328,446	1,328,446	1,328,446	1,328,446	1,328,446	1,328,446	1,328,446		102	99	99	99	99	99	99	99	99	99	100.00%												100%
	Adjustment to 2015 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	Appliance Retirement Initiative	Verified	86,849	86,849	86,849	86,432	47,616	0	0	0	0	0		13	13	13	13	7	0	0	0	0	0	100.00%												100%
	Adjustment to 2015 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	HVAC Incentives Initiative	Verified	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035		783	783	783	783	783	783	783	783	783	783	100.00%												100%
	Adjustment to 2015 savings	True-up	37,584	37,584	37,584	37,584	37,584	37,584	37,584	37,584	37,584	37,584		20	20	20	20	20	20	20	20	20	20	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Residential New Construction and Major	Verified	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469		62	62	62	62	62	62	62	62	62	62	100.00%												100%
	Adjustment to 2015 savings	True-up	807,475	807,475	807,475	807,475	807,475	807,475	807,475	807,475	807,475	807,475		42	42	42	42	42	42	42	42	42	42	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Commercial & Institutional Program																																			
6	Energy Audit Initiative	Verified	499,499	499,499	499,499	499,499	0	0	0	0	0	0	12	106	106	106	106	0	0	0	0	0	0			100.00%										100%
	Adjustment to 2015 savings	True-up	338,247	338,247	338,247	338,247	837,746	837,746	837,746	837,746	837,746	837,746	12	72	72	72	72	188	188	188	188	188	188	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement Incentive Initiative	Verified	15,756,998	15,756,998	15,756,998	15,756,998	15,756,998	15,756,998	15,756,998	15,756,998	15,756,998	15,756,998	12	2,370	2,370	2,330	2,330	2,330	2,324	2,246	2,246	2,190	1,936		81.00%	19.00%									100%
	Adjustment to 2015 savings	True-up	679,088	679,088	679,088	650,499	650,499	650,499	623,767	623,767	623,767	510,518	12	139	139	139	130	130	130	127	127	127	113	0.00%	81.00%	19.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Direct Install Lighting and Water Heating Initiative	Verified	4,901,161	4,211,758	3,148,129	3,146,287	3,146,287	3,146,287	3,146,287	3,146,287	3,146,287	3,146,287	12	1,178	1,019	734	733	733	733	733	733	733	733			100.00%										100%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	New Construction and Major Renovation Initiative	Verified	58,323	58,323	58,323	58,323	58,323	58,323	58,323	58,323	58,323	58,323	12	39	39	39	39	39	39	39	39	39	39			100.00%										100%
	Adjustment to 2015 savings	True-up	878,463	878,463	878,463	878,463	878,463	878,463	878,463	878,463	878,463	878,463	12	364	364	364	364	364	364	364	364	364	364	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Existing Building Commissioning Incentive Initiative	Verified	596,676	596,676	596,676	0	0	0	0	0	0	0	3	250	250	250	0	0	0	0	0	0	0			100.00%										100%
	Adjustment to 2015 savings	True-up											3											0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																			
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified	29,092,220	29,092,220	29,092,220	29,092,220	29,092,220	29,092,220	29,092,220	29,092,220	29,092,220	29,092,220	12	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348					100.00%								100%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified											12	0	0	0	0	0	0	0	0	0	0				100.00%									100%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Process and Systems Upgrades Initiatives - Enerov Manager Initiative	Verified	1,382,502	1,382,502	1,382,502	1,382,502	1,358,635	1,320,160	1,320,160	1,312,773	1,299,574	526,341	12	116	116	116	116	116	103	103	103	100	92				100.00%									100%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Low Income Program																																			
14	Low Income Initiative	Verified	237,547	185,413	176,726	169,475	169,475	169,475	166,931	166,831	86,294	85,862	12	20	17	17	16	16	16	16	16	12	12	100.00%												100%
	Adjustment to 2015 savings	True-up	21,591	17,590	16,949	16,308	16,308	16,308	15,788	15,788	9,881	9,881	12	2	2	2	2	2	2	2	2	1	1	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																			
15	Efficiency:Equipment Replacement Incentive In	Verified	10,067,645	10,067,645	10,067,645	10,067,645	10,067,645	10,067,645	10,067,645	10,067,645	10,067,645	10,067,645	0																	100.00%						100%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Program Enabled Savings	Verified	417,923	417,923	417,923	417,923	417,923	417,923	417,923	417,923	417,923	417,923	0											100.00%												100%
	Adjustment to 2015 savings	True-up											0											100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation Fund Pilots																																			
17	Conservation Fund Pilot - EnerNOC	Verified											0																							0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	Loblaws Pilot	Verified											0																							0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Conservation Fund Pilot - SEG	Verified											0																							0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Social Benchmarking Pilot	Verified											0																							0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation First Framework																																			
	Residential Province-Wide Programs																																			
21	Save on Energy Coupon Program	Verified	3,913,143	3,879,729	3,879,729	3,879,729	3,879,729	3,879,729	3,879,729	3,877,505	3,877,505	3,877,505		252	250	250	250	250	250	250	249	249	249	100%												100%
	Adjustment to 2015 savings	True-up	388,248	382,738	382,738	382,738	382,738	382,738	382,738	382,398	382,398	382,398		25	25	25	25	25	25	25	25	25	25	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Save on Energy Heating and Cooling Program	Verified	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453		837	837	837	837	837	837	837	837	837	837	100%												100%
	Adjustment to 2015 savings	True-up	172,830	172,830	172,830	172,830	172,830	172,830	172,830	172,830	172,830	172,830		90	90	90	90	90	90	90	90	90	90	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	Save on Energy New Construction Program	Verified																																		0%
	Adjustment to 2015 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	Save on Energy Home Assistance Program	Verified																																		0%
	Adjustment to 2015 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Non-Residential Province-Wide Programs																																			
25	Save on Energy Audit Funding Program	Verified											12											0.00%	0.00%	100.00%	0.00%	0.00%								100%
	Adjustment to 2015 savings	True-up	76,159	76,159	76,159	76,159	76,159	76,159	76,159	76,159	76,159	76,159	12	16	16	16	16	16	16	16	16	16	16	0.00%	0.00%	100.00%	0.00%	0.00%								
26	Save on Energy Retrofit Program	Verified	1,883,044	1,883,044	1,882,176	1,882,176	1,882,176	1,882,176	1,786,538	1,786,538	1,755,270	1,432,240	12	260	260	260	260	260	260	245	245	243	195		100%												100%

	Adjustment to 2015 savings	True-up	3,004,373	2,867,197	2,840,727	2,840,727	2,840,727	2,840,727	2,695,898	2,695,898	2,681,930	2,223,924	12	475	432	424	424	424	424	402	402	398	328
27	Save on Energy Small Business Lighting Program	Verified											12										
	Adjustment to 2015 savings	True-up											12										
28	Save on Energy High Performance New Construction Program	Verified											12										
	Adjustment to 2015 savings	True-up											12										
29	Save on Energy Existing Building Commissioning Program	Verified											3										
	Adjustment to 2015 savings	True-up											3										
30	Save on Energy Process & Systems Upgrades Program	Verified											12										
	Adjustment to 2015 savings	True-up											12										
31	Save on Energy Monitoring & Targeting Program	Verified											12										
	Adjustment to 2015 savings	True-up											12										
32	Save on Energy Energy Manager Program	Verified											12										
	Adjustment to 2015 savings	True-up											12										
	Local & Regional Programs																						
33	Business Refrigeration Local Program	Verified											0										
	Adjustment to 2015 savings	True-up											0										
34	First Nation Conservation Local Program	Verified											0										
	Adjustment to 2015 savings	True-up											0										
35	Social Benchmarking Local Program	Verified											0										
	Adjustment to 2015 savings	True-up											0										
	Pilot Programs																						
36	Enersource Hydro Mississauga Inc. - Performance-Based Conservation Pilot Program - Conservation Fund	Verified											0										
	Adjustment to 2015 savings	True-up											0										
37	EnWin Utilities Ltd. - Building Optimization Pilot	Verified											0										
	Adjustment to 2015 savings	True-up											0										
38	EnWin Utilities Ltd. - Re-Invest Pilot	Verified											0										
	Adjustment to 2015 savings	True-up											0										
39	Horizon Utilities Corporation - ECM Furnace Motor Pilot	Verified											0										
	Adjustment to 2015 savings	True-up											0										
40	Horizon Utilities Corporation - Social Benchmarking Pilot	Verified	2,978,654										0	505									
	Adjustment to 2015 savings	True-up											0										
41	Hydro Ottawa Limited - Conservation Voltage Regulation (CVR) Leveraging AMI Data Pilot	Verified											0										
	Adjustment to 2015 savings	True-up											0										
42	Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	Verified																					
	Adjustment to 2015 savings	True-up																					
43	Kitchener-Wilmot Hydro Inc. - Pilot - DCKV	Verified											0										
	Adjustment to 2015 savings	True-up											0										
44	Niagara-on-the-Lake Hydro Inc. - Direct Install Energy Efficiency Measures for the Agricultural Sector	Verified											0										
	Adjustment to 2015 savings	True-up											0										
45	Oakville Hydro Electricity Distribution Inc. - Direct Install - Hydronic	Verified											0										
	Adjustment to 2015 savings	True-up											0										
46	Oakville Hydro Electricity Distribution Inc. - Direct Install - RTU Controls	Verified											0										
	Adjustment to 2015 savings	True-up											0										
47	Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings)	Verified											0										
	Adjustment to 2015 savings	True-up											0										
48	Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)	Verified											0										
	Adjustment to 2015 savings	True-up											0										
49	Toronto Hydro-Electric System Limited - PFP - Large (Pilot Savings)	Verified											0										
	Adjustment to 2015 savings	True-up											0										
	Actual CDM Savings in 2015		**83,524,379**	**79,571,624**	**78,471,329**	**77,835,913**	**77,773,230**	**77,687,139**	**77,416,876**	**77,406,649**	**77,261,770**	**75,595,820**		**11,524**	**10,808**	**10,475**	**10,214**	**10,218**	**10,192**	**10,074**	**10,073**	**10,003**	**9,609**
	Forecast CDM Savings in 2015																						

	Adjustment to 2015 savings	True-up	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	Save on Energy Small Business Lighting Program	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Save on Energy High Performance New Construction Program	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Save on Energy Existing Building Commissioning Program	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	Save on Energy Process & Systems Upgrades Program	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
31	Save on Energy Monitoring & Targeting Program	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Save on Energy Energy Manager Program	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Local & Regional Programs																
33	Business Refrigeration Local Program	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
34	First Nation Conservation Local Program	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
35	Social Benchmarking Local Program	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pilot Programs																
36	Enersource Hydro Mississauga Inc. - Performance-Based Conservation Pilot Program - Conservation Fund	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
37	EnWin Utilities Ltd. - Building Optimization Pilot	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
38	EnWin Utilities Ltd. - Re-Invest Pilot	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
39	Horizon Utilities Corporation - ECM Furnace Motor Pilot	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40	Horizon Utilities Corporation - Social Benchmarking Pilot	Verified	100.00%														100%
	Adjustment to 2015 savings	True-up	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
41	Hydro Ottawa Limited - Conservation Voltage Regulation (CVR) Leveraging AMI Data Pilot	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
42	Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
43	Kitchener-Wilmot Hydro Inc. - Pilot - DCKV	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
44	Niagara-on-the-Lake Hydro Inc. - Direct Install Energy Efficiency Measures for the Agricultural Sector	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
45	Oakville Hydro Electricity Distribution Inc. - Direct Install - Hydronic	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
46	Oakville Hydro Electricity Distribution Inc. - Direct Install - RTU Controls	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
47	Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings)	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
48	Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
49	Toronto Hydro-Electric System Limited - PFP - Large (Pilot Savings)	Verified															0%
	Adjustment to 2015 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2015		**14,309,981**	**18,200,647**	**27,771**	**1,392**	**40,176**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Forecast CDM Savings in 2015		**3,350,520**	**928,649**	**34,728**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Distribution Rate in 2015		$0.01550	$0.01010	$2.42860	$1.34650	$0.22460	$7.49600	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
	Lost Revenue in 2015 from 2011 programs		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
	Lost Revenue in 2015 from 2012 programs		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
	Lost Revenue in 2015 from 2013 programs		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
	Lost Revenue in 2015 from 2014 programs		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
	Lost Revenue in 2015 from 2015 programs		$221,804.71	$183,826.53	$67,443.48	$1,874.33	$9,023.53	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 483,972.58
	Total Lost Revenues in 2015		**$221,804.71**	**$183,826.53**	**$67,443.48**	**$1,874.33**	**$9,023.53**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 483,972.58**
	Forecast Lost Revenues in 2015		**$51,933.06**	**$9,379.35**	**$84,340.42**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 145,652.84**
	LRAMVA in 2015																**$ 338,319.75**
	2015 Savings Persisting in 2016		11,183,805	18,063,471	25,863	1,392	40,176	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2017		11,174,477	18,036,133	22,351	1,392	40,176	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2018		11,166,168	18,012,976	21,569	1,392	40,176	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2019		11,127,352	18,012,976	21,689	1,392	40,176	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2020		11,079,736	18,012,976	21,675	1,236	40,176	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 5-b. 2016 Lost Revenues Work Form

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	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	Legacy Framework																						
	Residential Program																						
1	Coupon Initiative	Verified																					
	Adjustment to 2016 savings	True-up																					
2	Bi-Annual Retailer Event Initiative	Verified																					
	Adjustment to 2016 savings	True-up																					
3	Appliance Retirement Initiative	Verified																					
	Adjustment to 2016 savings	True-up																					
4	HVAC Incentives Initaitive	Verified																					
	Adjustment to 2016 savings	True-up																					
5	Residential New Construction and Major Renovation Initiative	Verified																					
	Adjustment to 2016 savings	True-up																					
	Commercial & Institutional Program																						
6	Energy Audit Initiative	Verified											12										
	Adjustment to 2016 savings	True-up											12										
7	Efficiency: Equipment Replacement Incentive Initiative	Verified											12										
	Adjustment to 2016 savings	True-up											12										
8	Direct Install Lighting and Water Heating Initiative	Verified											12										
	Adjustment to 2016 savings	True-up											12										

	Program	Results Status	Rate Allocations for LRAMVA														
			Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting									Total
	Legacy Framework		kWh	kWh	kW	kW	kW	kW									
	Residential Program																
1	Coupon Initiative	Verified															0%
	Adjustment to 2016 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Bi-Annual Retailer Event Initiative	Verified															0%
	Adjustment to 2016 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	Appliance Retirement Initiative	Verified															0%
	Adjustment to 2016 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	HVAC Incentives Initaitive	Verified															0%
	Adjustment to 2016 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Residential New Construction and Major Renovation Initiative	Verified															0%
	Adjustment to 2016 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Commercial & Institutional Program																
6	Energy Audit Initiative	Verified															0%
	Adjustment to 2016 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement Incentive Initiative	Verified															0%
	Adjustment to 2016 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Direct Install Lighting and Water Heating Initiative	Verified															0%
	Adjustment to 2016 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

9	New Construction and Major Renovation Initiative	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
10	Existing Building Commissioning Incentive Initiative	Verified										3																					0%
	Adjustment to 2016 savings	True-up										3																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Industrial Program																																
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
13	Process and Systems Upgrades Initiatives - Energy Manager Initiative	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Low Income Program																																
14	Low Income Initiative	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Other																																
15	Aboriginal Conservation Program	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
16	Program Enabled Savings	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Conservation Fund Pilots																																
17	Conservation Fund Pilot - EnerNOC	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18	Loblaws Pilot	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
19	Conservation Fund Pilot - SEG	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
20	Social Benchmarking Pilot	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Conservation First Framework																																
	Residential Province-Wide Programs																																
21	Save on Energy Coupon Program	Verified																															0%
	Adjustment to 2016 savings	True-up																															
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22	Save on Energy Heating and Cooling Program	Verified																															0%
	Adjustment to 2016 savings	True-up																															
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
23	Save on Energy New Construction Program	Verified																															0%
	Adjustment to 2016 savings	True-up																															
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
24	Save on Energy Home Assistance Program	Verified																															0%
	Adjustment to 2016 savings	True-up																															
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Non-Residential Province-Wide Programs																																
25	Save on Energy Audit Funding Program	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
26	Save on Energy Retrofit Program	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
27	Save on Energy Small Business Lighting Program	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
28	Save on Energy High Performance New Construction Program	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
29	Save on Energy Existing Building Commissioning Program	Verified										3																					0%
	Adjustment to 2016 savings	True-up										3																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
30	Save on Energy Process & Systems Upgrades Program	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
31	Save on Energy Monitoring & Targeting Program	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
32	Save on Energy Energy Manager Program	Verified										12																					0%
	Adjustment to 2016 savings	True-up										12																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Local & Regional Programs																																
33	Business Refrigeration Local Program	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
34	First Nation Conservation Local Program	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
35	Social Benchmarking Local Program	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Pilot Programs																																
36	Enersource Hydro Mississauga Inc. - Performance-Based Conservation Pilot Program - Conservation Fund	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
37	EnWin Utilities Ltd. - Building Optimization Pilot	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
38	EnWin Utilities Ltd. - Re-Invest Pilot	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
39	Horizon Utilities Corporation - ECM Furnace Motor Pilot	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
40	Horizon Utilities Corporation - Social Benchmarking Pilot	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
41	Hydro Ottawa Limited - Conservation Voltage Regulation (CVR) Leveraging AMI Data Pilot	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
42	Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	Verified																															0%
	Adjustment to 2016 savings	True-up																															
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
43	Kitchener-Wilmot Hydro Inc. - Pilot - DCKV	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
44	Niagara-on-the-Lake Hydro Inc. - Direct Install Energy Efficiency Measures for the Agricultural Sector	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
45	Oakville Hydro Electricity Distribution Inc. - Direct Install - Hydronic	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
46	Oakville Hydro Electricity Distribution Inc. - Direct Install - RTU Controls	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
47	Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings)	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0																					
																				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

48	Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
49	Toronto Hydro-Electric System Limited - PPP - Lanai (Pilot Savings)	Verified										0																					0%
	Adjustment to 2016 savings	True-up										0									0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
	Actual CDM Savings in 2016		0										0								0	0	0	0	0	0	0	0	0	0			
	Forecast CDM Savings in 2016																				0	0	0	0	0	0	0	0	0	0			
	Distribution Rate in 2016																				$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000			
	Lost Revenue in 2016 from 2011 programs																				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$	-	
	Lost Revenue in 2016 from 2012 programs																				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$	-	
	Lost Revenue in 2016 from 2013 programs																				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$	-	
	Lost Revenue in 2016 from 2014 programs																				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$	-	
	Lost Revenue in 2016 from 2015 programs																				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$	-	
	Lost Revenue in 2016 from 2016 programs																				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$	-	
	Total Lost Revenues in 2016																				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$**	**-**	
	Forecast Lost Revenues in 2016																				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$**	**-**	
	LRAMVA in 2016																														**$**	**-**	
	2016 Savings Persisting in 2017																				0	0	0	0	0	0	0	0	0	0			
	2016 Savings Persisting in 2018																				0	0	0	0	0	0	0	0	0	0			
	2016 Savings Persisting in 2019																				0	0	0	0	0	0	0	0	0	0			
	2016 Savings Persisting in 2020																				0	0	0	0	0	0	0	0	0	0			

Note: LDC to make note of assumptions included above

Table 5-c 2017 Lost Revenues Work Form

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Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA									Total
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting					
Legacy Framework																							kWh	kWh	kW	kW	kW	kW					
Actual CDM Savings in 2017		0										0											0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2017																							0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2017																							$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2017 from 2011 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2012 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2013 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2014 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2015 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2016 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2017 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Total Lost Revenues in 2017																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2017																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2017																																**$**	**-**
2017 Savings Persisting in 2018																							0	0	0	0	0	0	0	0	0	0	
2017 Savings Persisting in 2019																							0	0	0	0	0	0	0	0	0	0	
2017 Savings Persisting in 2020																							0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 5-d 2018 Lost Revenues Work Form

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Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA									Total
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting					
Legacy Framework																							kWh	kWh	kW	kW	kW	kW					
Actual CDM Savings in 2018		0										0											0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2018																							0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2018																							$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2018 from 2011 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2012 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2013 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2014 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2015 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2016 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2017 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2018 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Total Lost Revenues in 2018																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2018																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2018																																**$**	**-**
2018 Savings Persisting in 2019																							0	0	0	0	0	0	0	0	0	0	
2018 Savings Persisting in 2020																							0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 5-e 2019 Lost Revenues Work Form

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Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA									Total
		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting					
Legacy Framework																							kWh	kWh	kW	kW	kW	kW					
Actual CDM Savings in 2019		0										0											0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2019																							0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2019																							$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2019 from 2011 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2012 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2013 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2014 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2015 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2016 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2017 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2018 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2019 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Total Lost Revenues in 2019																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2019																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2019																																**$**	**-**
2019 Savings Persisting in 2020																							0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 5-f 2020 Lost Revenues Work Form

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Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA									Total
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting					
Legacy Framework																							kWh	kWh	kW	kW	kW	kW					
Actual CDM Savings in 2020		0										0											0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2020																							0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2020																							$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2020 from 2011 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2012 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2013 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2014 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2015 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2016 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2017 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2018 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2019 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2020 programs																							$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Total Lost Revenues in 2020																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2020																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2020																																**$**	**-**

Note: LDC to make note of assumptions included above

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Ontario Energy Board

LRAMVA Work Form:
Carrying Charges by Rate Class

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. The quarterly interest rates are used to calculate the carrying charges for LRAMVA. Starting from column I, the principle will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rates from column H to determine the monthly variances on carrying charges for each rate class by year.

2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.

Table 6. Prescribed Interest Rates

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.10%
2018 Q1	
2018 Q2	
2018 Q3	
2018 Q4	
2019 Q1	
2019 Q2	
2019 Q3	
2019 Q4	
2020 Q1	
2020 Q2	
2020 Q3	
2020 Q4	

Check OEB website

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Month	Period	Quarter	Monthly Rate	Residential	GS<50 kW	General Service 50 to 4,999 kW	Large Use	Large Use	Street Lighting										Total
Jan-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2011				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																			
Opening Balance for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared																			
Opening Balance for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-13	2011-2013	Q1	0.12%	$8.67	$3.92	$11.93	$5.24	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$29.75
Mar-13	2011-2013	Q1	0.12%	$17.33	$7.84	$23.86	$10.48	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$59.51
Apr-13	2011-2013	Q2	0.12%	$26.00	$11.76	$35.79	$15.72	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$89.26
May-13	2011-2013	Q2	0.12%	$34.67	$15.68	$47.71	$20.96	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$119.01
Jun-13	2011-2013	Q2	0.12%	$43.33	$19.60	$59.64	$26.20	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$148.77
Jul-13	2011-2013	Q3	0.12%	$52.00	$23.52	$71.57	$31.43	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$178.52
Aug-13	2011-2013	Q3	0.12%	$60.66	$27.44	$83.50	$36.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$208.28
Sep-13	2011-2013	Q3	0.12%	$69.33	$31.36	$95.43	$41.91	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$238.03
Oct-13	2011-2013	Q4	0.12%	$78.00	$35.28	$107.36	$47.15	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$267.78
Nov-13	2011-2013	Q4	0.12%	$86.66	$39.20	$119.28	$52.39	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$297.54
Dec-13	2011-2013	Q4	0.12%	$95.33	$43.12	$131.21	$57.63	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$327.29
Total for 2013				**$571.98**	**$258.71**	**$787.27**	**$345.78**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$1,963.75**
Amount Cleared																			
Opening Balance for 2014				**$571.98**	**$258.71**	**$787.27**	**$345.78**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$1,963.75**
Jan-14	2011-2014	Q1	0.12%	$104.00	$47.04	$143.14	$62.87	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$357.04
Feb-14	2011-2014	Q1	0.12%	$133.38	$55.01	$160.21	$69.05	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$417.64
Mar-14	2011-2014	Q1	0.12%	$162.76	$62.97	$177.28	$75.23	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$478.24
Apr-14	2011-2014	Q2	0.12%	$192.14	$70.94	$194.35	$81.40	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$538.84
May-14	2011-2014	Q2	0.12%	$221.52	$78.91	$211.42	$87.58	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$599.43
Jun-14	2011-2014	Q2	0.12%	$250.90	$86.87	$228.49	$93.76	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$660.03
Jul-14	2011-2014	Q3	0.12%	$280.29	$94.84	$245.56	$99.94	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$720.63
Aug-14	2011-2014	Q3	0.12%	$309.67	$102.81	$262.63	$106.12	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$781.22
Sep-14	2011-2014	Q3	0.12%	$339.05	$110.77	$279.70	$112.29	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$841.82
Oct-14	2011-2014	Q4	0.12%	$368.43	$118.74	$296.77	$118.47	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$902.42
Nov-14	2011-2014	Q4	0.12%	$397.81	$126.71	$313.84	$124.65	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$963.02
Dec-14	2011-2014	Q4	0.12%	$427.19	$134.67	$330.92	$130.83	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,023.61
Total for 2014				**$3,759.12**	**$1,348.98**	**$3,631.61**	**$1,507.98**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$10,247.69**
Amount Cleared																			
Opening Balance for 2015				**$3,759.12**	**$1,348.98**	**$3,631.61**	**$1,507.98**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$10,247.69**
Jan-15	2011-2015	Q1	0.12%	$456.58	$142.64	$347.99	$137.01	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,084.21
Feb-15	2011-2015	Q1	0.12%	$473.92	$160.45	$346.26	$137.20	$0.92	$6.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,125.41
Mar-15	2011-2015	Q1	0.12%	$491.26	$178.26	$344.54	$137.39	$1.84	$13.34	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,166.62
Apr-15	2011-2015	Q2	0.09%	$380.58	$146.72	$256.53	$102.95	$2.07	$14.97	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$903.81
May-15	2011-2015	Q2	0.09%	$393.56	$160.04	$255.23	$103.10	$2.76	$19.96	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$934.65
Jun-15	2011-2015	Q2	0.09%	$406.54	$173.37	$253.94	$103.24	$3.45	$24.95	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$965.48

Jul-15	2011-2015	Q3	0.09%	$419.51	$186.69	$252.65	$103.38	$4.14	$29.94	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$996.32
Aug-15	2011-2015	Q3	0.09%	$432.49	$200.02	$251.36	$103.52	$4.83	$34.93	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,027.15
Sep-15	2011-2015	Q3	0.09%	$445.47	$213.34	$250.07	$103.67	$5.51	$39.92	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,057.98
Oct-15	2011-2015	Q4	0.09%	$458.44	$226.67	$248.78	$103.81	$6.20	$44.91	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,088.82
Nov-15	2011-2015	Q4	0.09%	$471.42	$240.00	$247.49	$103.95	$6.89	$49.90	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,119.65
Dec-15	2011-2015	Q4	0.09%	$484.39	$253.32	$246.20	$104.10	$7.58	$54.89	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,150.49
Total for 2015				**$9,073.28**	**$3,630.50**	**$6,932.65**	**$2,851.29**	**$46.19**	**$334.37**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$22,868.29**
Amount Cleared																		
Opening Balance for 2016				**$9,073.28**	**$3,630.50**	**$6,932.65**	**$2,851.29**	**$46.19**	**$334.37**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$22,868.29**
Jan-16	2011-2016	Q1	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Feb-16	2011-2016	Q1	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Mar-16	2011-2016	Q1	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Apr-16	2011-2016	Q2	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
May-16	2011-2016	Q2	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Jun-16	2011-2016	Q2	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Jul-16	2011-2016	Q3	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Aug-16	2011-2016	Q3	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Sep-16	2011-2016	Q3	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Oct-16	2011-2016	Q4	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Nov-16	2011-2016	Q4	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Dec-16	2011-2016	Q4	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Total for 2016				**$15,041.74**	**$6,830.28**	**$9,871.55**	**$4,102.18**	**$145.45**	**$1,052.92**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$37,044.11**
Amount Cleared																		
Opening Balance for 2017				**$15,041.74**	**$6,830.28**	**$9,871.55**	**$4,102.18**	**$145.45**	**$1,052.92**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$37,044.11**
Jan-17	2011-2017	Q1	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Feb-17	2011-2017	Q1	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Mar-17	2011-2017	Q1	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Apr-17	2011-2017	Q2	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
May-17	2011-2017	Q2	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Jun-17	2011-2017	Q2	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Jul-17	2011-2017	Q3	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Aug-17	2011-2017	Q3	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Sep-17	2011-2017	Q3	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Oct-17	2011-2017	Q4	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Nov-17	2011-2017	Q4	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Dec-17	2011-2017	Q4	0.09%	$497.37	$266.65	$244.91	$104.24	$8.27	$59.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,181.32
Total for 2017				**$21,010.19**	**$10,030.06**	**$12,810.46**	**$5,353.07**	**$244.71**	**$1,771.46**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$51,219.94**
Amount Cleared																		
Opening Balance for 2018				**$21,010.19**	**$10,030.06**	**$12,810.46**	**$5,353.07**	**$244.71**	**$1,771.46**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$51,219.94**
Jan-18	2011-2018	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-18	2011-2018	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-18	2011-2018	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-18	2011-2018	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-18	2011-2018	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-18	2011-2018	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-18	2011-2018	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-18	2011-2018	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-18	2011-2018	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-18	2011-2018	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-18	2011-2018	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-18	2011-2018	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2018				**$21,010.19**	**$10,030.06**	**$12,810.46**	**$5,353.07**	**$244.71**	**$1,771.46**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$51,219.94**
Amount Cleared																		
Opening Balance for 2019				**$21,010.19**	**$10,030.06**	**$12,810.46**	**$5,353.07**	**$244.71**	**$1,771.46**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$51,219.94**
Jan-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2019				**$21,010.19**	**$10,030.06**	**$12,810.46**	**$5,353.07**	**$244.71**	**$1,771.46**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$51,219.94**
Amount Cleared																		
Opening Balance for 2020				**$21,010.19**	**$10,030.06**	**$12,810.46**	**$5,353.07**	**$244.71**	**$1,771.46**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$51,219.94**
Jan-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-20	2011-2020	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-20	2011-2020	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-20	2011-2020	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-20	2011-2020	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-20	2011-2020	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-20	2011-2020	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2020				**$21,010.19**	**$10,030.06**	**$12,810.46**	**$5,353.07**	**$244.71**	**$1,771.46**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$51,219.94**
Amount Cleared																		

Ontario Energy Board

Supporting Documentation:
LDC Persistence Savings Results from IESO

Version 2.0 (2017)

Legend | Instructions (Grey)

Supporting Documentation

The following tabs 7-a to 7-j must be populated with the verified savings results from the IESO's (or former OPA's) persistence reports.
The persistence data tabs have been structured in a way to match the formatting of the persistence report provided by the IESO.

Ontario Energy Board

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-a. 2011 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2011 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2011 programs that become available in future evaluation audits are included in the 2011 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected
1	Tier 1	Consumer	Appliance Exchange	Horizon U	Residentia	EE	2011	
2	Tier 1	Consumer	Appliance Retirement	Horizon U	Residentia	EE	2011	
3	Tier 1	Consumer	Bi-Annual Retailer Event	Horizon U	Residentia	EE	2011	
4	Tier 1	Consumer	Conservation Instant Coupon Booklet	Horizon U	Residentia	EE	2011	
5	Tier 1	Consumer	HVAC Incentives	Horizon U	Residentia	EE	2011	
6	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2011	
7	Tier 1	Consumer	Retailer Co-op	Horizon U	Residentia	EE	2011	
8	Tier 1	Business	Commercial Demand Response (part of the Residential program schedule)	Horizon U	Commerci	DR	2011	
9	Tier 1	Business	Demand Response 3 (part of the Industrial program schedule)	Horizon U	Commerci	DR	2011	
10	Tier 1	Business	Direct Install Lighting	Horizon U	Commerci	EE	2011	
11	Tier 1	Business	Retrofit	Horizon U	Commerci	EE	2011	
12	Tier 1	Business	Energy Audit	Horizon U	Commerci	EE	2011	
13	Tier 1	Industrial	Demand Response 3	Horizon U	Industrial	DR	2011	
14	Tier 1	Industrial	Retrofit	Horizon U	Industrial	EE	2011	
15	Tier 1	Pre-2011 Pro	Electricity Retrofit Incentive Program	Horizon U	Commerci	EE	2011	
16	Tier 1	Pre-2011 Pro	High Performance New Construction	Horizon U	Commerci	EE	2011	
etc.								

Supporting Documentation:
2011 LDC Persistence Savings Results from IESO

Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)		Net Verified Annual Peak Demand Savings at the End-User Level (kW)								
							2011	2012	2013	2014	2015	2016	2017	2018	2019
Final; Released Augu		Appliance	186	35	41,598		18	18	18	6	-	-	-	-	-
Final; Released Augu		Appliance	3,034	350	2,495,649		172	172	172	167	111	-	-	-	-
Final; Released Augu		Products	35,186	61	1,087,497		68	68	68	68	63	58	47	47	57
Final; Released Augu		Products	21,540	44	735,082		50	50	50	50	47	44	37	37	43
Final; Released Augu		Installatio	6,097	2,798	5,121,925		1,693	1,693	1,693	1,693	1,693	1,693	1,693	1,693	1,693
Final; Rele		New parti	Devices	1,952	1,093	2,830		1,093	-	-	-	-	-	-	-	-
Final; Rele		Custom re	Products	0	-	-		-	-	-	-	-	-	-	-	-
Final; Rele		New parti	Devices	0	-	-		-	-	-	-	-	-	-	-	-
Final; Rele		Gross refl	Facilities	5	707	20,936		536	-	-	-	-	-	-	-	-
Final; Released Augu		Projects	693	617	1,823,667		661	661	633	544	544	542	112	111	111
Final; Released Augu		Projects	71	1,192	6,499,364		857	857	857	857	857	857	857	857	789
Final; Rele		Not evalu	Audits	5	-	-		-	-	-	-	-	-	-	-	-
Final; Rele		Gross refl	Facilities	6	4,151	205,346		3,498	-	-	-	-	-	-	-	-
Final; Released Augu		Projects	15	94	524,802		70	70	70	70	70	70	70	70	57
Final; Rele		Not evalu	Projects	118	5,876	33,885,712		3,066	3,066	3,066	3,066	3,066	3,066	3,066	3,066	3,066
Final; Rele		Not evalu	Projects	7	485	2,489,177		242	242	242	242	242	242	242	242	242

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	4	4	4	4	4	3	-	-	-	-	-	-	-	-	-	-	-
24	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-
1,693	1,693	1,693	1,693	1,693	1,693	1,693	1,693	1,693	1,341	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
111	102	102	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-
789	201	201	201	201	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,066	3,066	3,066	3,066	-	-	-	-	-	-	-	-	-	-	-	-	-	-
242	242	242	242	242	242	177	177	177	177	177	177	177	177	177	177	177	-

				Net Verified Annual Energy Savings at the End-User Level (kWh)									
2038	2039	2040		2011	2012	2013	2014	2015	2016	2017	2018	2019
-	-	-		21,438	21,438	21,438	10,248	-	-	-	-	-
-	-	-		1,238,865	1,238,865	1,238,865	1,235,024	845,705	-	-	-	-
-	-	-		1,188,091	1,188,091	1,188,091	1,188,091	1,085,828	974,110	734,417	731,737	945,719
-	-	-		810,293	810,293	810,293	810,293	745,857	675,463	534,237	530,959	665,790
-	-	-		3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047
-	-	-		2,830	-	-	-	-	-	-	-	-
-	-	-		-	-	-	-	-	-	-	-	-
-	-	-		-	-	-	-	-	-	-	-	-
-	-	-		20,936	-	-	-	-	-	-	-	-
-	-	-		1,693,346	1,693,346	1,614,579	1,362,735	1,362,338	1,358,309	305,906	304,862	304,862
-	-	-		4,805,916	4,805,916	4,805,916	4,805,916	4,805,916	4,805,916	4,805,916	4,805,916	4,504,954
-	-	-		-	-	-	-	-	-	-	-	-
-	-	-		205,346	-	-	-	-	-	-	-	-
-	-	-		402,527	402,527	402,527	402,527	402,527	402,527	402,527	402,527	357,485
-	-	-		17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219	17,700,219
-	-	-		1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
303,473	109,271	96,188	96,188	71,039	71,039	64,547	-	-	-	-	-
261,108	85,204	70,665	70,665	65,129	65,129	63,505	-	-	-	-	-
3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	3,070,047	2,755,498	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
304,862	247,791	247,791	1,557	1,557	1,557	-	-	-	-	-	-
4,504,954	1,115,148	1,115,148	1,115,148	1,115,148	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
357,485	-	-	-	-	-	-	-	-	-	-	-
17,700,219	17,700,219	17,700,219	17,700,219	-	-	-	-	-	-	-	-
1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	1,244,589	910,795	910,795	910,795	910,795	910,795	910,795

2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
910,795	910,795	910,795	910,795	910,795	-	-	-	-

Ontario Energy Board

2012 LDC

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-b. 2012 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2012 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2012 programs that become available in future evaluation audits are included in the 2012 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes
1	Tier 1	Business	Direct Install Lighting	Horizon U	C&I	EE	2012		Final; Released Augu	
2	Tier 1	Business	Retrofit	Horizon U	C&I	EE	2012		Final; Released Augu	
3	Tier 1	Business	Energy Audit	Horizon U	C&I	EE	2012		Final; Released Augu	
4	Tier 1	Business	High Performance New Construction	Horizon U	C&I	EE	2012		Final; Released Augu	
5	Tier 1	Consumer	Appliance Exchange	Horizon U	Residentia	EE	2012		Final; Released Augu	
6	Tier 1	Consumer	Appliance Retirement	Horizon U	Residentia	EE	2012		Final; Released Augu	
7	Tier 1	Consumer	Bi-Annual Retailer Event	Horizon U	Residentia	EE	2012		Final; Released Augu	
8	Tier 1	Consumer	Conservation Instant Coupon Booklet	Horizon U	Residentia	EE	2012		Final; Released Augu	
9	Tier 1	Consumer	HVAC Incentives	Horizon U	Residentia	EE	2012		Final; Released Augu	
10	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2012		Final; Released Augu	
11	Tier 1	Home Assistance	Home Assistance Program	Horizon U	Residentia	EE	2012		Final; Released Augu	
12	Tier 1	Industrial	Demand Response 3	Horizon U	Industrial	DR	2012		Final; Released Augu	
13	Tier 1	Pre-2011 Programs Completed in 2011	High Performance New Construction	Horizon U	C&I	EE	2012		Final; Released Augu	
14	Tier 1	Business	Demand Response 3 (part of the Industrial program schedule)	Horizon U	C&I	DR	2012		Final; Released Augu	
15	Tier 1	Industrial	Energy Manager	Horizon U	Industrial		2012		Final; Released Augus	
16	Tier 1	Business	Commercial Demand Response (part of the Residential program schedule)	Horizon U	C&I	DR	2012		Final; Released Augu	
17	Non-Tier 1	Consumer	Residential and Small Commercial Demand Response	Horizon U	Residentia	DR	2012		Final; Released Augu	
18	Non-Tier 1	Consumer	Residential and Small Commercial Demand Response	Horizon U	Residentia	DR	2012		Final; Released Augu	
19	Non-Tier 1	Consumer	Residential and Small Commercial Demand Response	Horizon U	Residentia	DR	2012		Final; Released Augu	
20	Non-Tier 1	Consumer	Residential and Small Commercial Demand Response	Horizon U	Residentia	DR	2012		Final; Released Augu	
21	Non-Tier 1	Industrial	Demand Response 3	Horizon U	Industrial	DR	2012		Final; Released Augu	
22	Non-Tier 1	Business	Residential and Small Commercial Demand Response	Horizon U	Business	DR	2012		Final; Released Augu	
23	Non-Tier 1	Business	Residential and Small Commercial Demand Response	Horizon U	Business	DR	2012		Final; Released Augu	
24	Non-Tier 1	Business	Residential and Small Commercial Demand Response	Horizon U	Business	DR	2012		Final; Released Augu	
25	Non-Tier 1	Business	Demand Response 3	Horizon U	Business	DR	2012		Final; Released Augu	
26	Tier 1 - 2011	Business	Retrofit	Horizon U	C&I	EE	2011		Final; Released Augu	
27	Tier 1 - 2011	Business	Direct Install Lighting	Horizon U	C&I	EE	2011		Final; Released Augu	
28	Tier 1 - 2011	Business	Energy Audit	Horizon U	C&I	EE	2011		Final; Released Augu	
29	Tier 1 - 2011	Pre-2011 Programs Completed in 2011	High Performance New Construction	Horizon U	C&I	EE	2011		Final; Released Augu	
30	Tier 1 - 2011	Consumer	HVAC Incentives	Horizon U	Residentia	EE	2011		Final; Released Augu	
31	Tier 1 - 2011	Consumer	Bi-Annual Retailer Event	Horizon U	Residentia	EE	2011		Final; Released Augu	
32	Tier 1 - 2011	Consumer	Conservation Instant Coupon Booklet	Horizon U	Residentia	EE	2011		Final; Released Augu	
etc.										

Supporting Documentation:
Persistence Savings Results from IESO

Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)	Net Verified Annual Peak Demand Savings at the End-User Level (kW)															
				2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Projects	662	608	1,079,789	-	550	550	534	467	467	136	136	136	136	136	127	127	-	-	-
Projects	178	2,207	12,768,626	-	1,659	1,640	1,597	1,568	1,565	1,418	1,390	1,385	1,330	999	969	969	490	337	337
Audits	3	21	42,023	-	16	16	16	16	-	-	-	-	-	-	-	-	-	-	-
Projects	2	0	20,893	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Appliance	131	25	65,609	-	19	19	19	19	-	-	-	-	-	-	-	-	-	-	-
Appliance	1671	127	1,424,425	-	96	96	96	93	51	-	-	-	-	-	-	-	-	-	-
Products	42891	80	1,181,405	-	60	60	60	60	55	46	35	35	35	22	9	9	9	9	9
Products	1249	12	56,527	-	9	9	9	9	9	9	8	8	8	8	0	0	0	0	0
Installatio	5007	1,451	4,424,797	-	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091	1,091
Devices	5393	3,590	13,650	-	2,699	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Projects	235	32	(7,876)	-	24	24	24	24	24	24	23	23	13	11	9	9	7	7	4
Facilities	7	8,571	(85,270)	-	6,445	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Projects	3	195	1,164,328	-	146	146	146	146	146	146	146	146	146	146	146	146	-	-	-
Facilities	4	706	7,718	-	531	-	-	-	-	-	-	-	-	-	-	-	-	-	-
st 31, 2013	3	80	531,516	-	60	60	60	60	60	60	60	60	60	60	60	60	60	60	-
Devices	9	8	33	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Devices	2,489.00	1,521	7,839	-	1,144	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Devices	67	44	235	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Devices	5,534.00	3,810	12,562	-	2,864	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Devices	2	1	7	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Facilities	9	39,248	711,166	-	29,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Devices	48	41	175	-	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Devices	2	2	7	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Devices	42	36	153	-	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Facilities	1	148	1,614	-	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Projects	16	149	813,113	112	112	112	112	112	111	96	48	48	48	47	45	25	25	25	25
Projects	22	30	65,529	28	28	28	26	26	26	7	7	7	7	7	7	-	-	-	-
Projects	10	52	251,763	52	52	52	52	52	-	-	-	-	-	-	-	-	-	-	-
Buildings	1	0	3,337,431	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	-
Installatio	-1069	(715)	(1,309,150)	(298)	(298)	(298)	(298)	(298)	(298)	(298)	(298)	(298)	(298)	(298)	(298)	(298)	(298)	(298)	(298)
Products	3308	5	95,962	4	4	4	4	4	4	2	2	2	1	0	0	0	0	0	0
Products	332	1	10,349	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0

															Net Verified Annual Energy Savings at the End-User Level (kWh)					
2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040		2011	2012	2013	2014	2015	2016
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	1,875,038	1,875,038	1,817,432	1,557,887	1,557,887
71	63	63	63	63	-	-	-	-	-	-	-	-	-		-	9,600,471	9,532,535	9,389,579	9,295,397	9,282,626
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	75,529	75,529	75,529	75,529	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	1,331	1,331	1,331	1,331	1,331
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	33,812	33,812	33,812	33,507	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	669,778	669,778	669,778	667,421	389,535
8	2	2	2	2	-	-	-	-	-	-	-	-	-		-	1,082,743	1,082,743	1,082,743	1,082,743	973,317
0	-	-	-	-	-	-	-	-	-	-	-	-	-		-	56,527	56,527	56,527	56,527	55,678
1,091	1,091	1,091	837	-	-	-	-	-	-	-	-	-	-		-	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	13,650	-	-	-	-
4	4	4	4	4	2	-	-	-	-	-	-	-	-		-	286,839	286,839	286,839	286,839	281,080
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	155,311	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	582,164	582,164	582,164	582,164	582,164
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	7,718	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	479,921	479,921	479,921	479,921	479,921
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	33	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	7,839	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	235	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	12,562	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	7	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	711,166	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	175	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	7	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	153	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	1,614	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		615,841	615,841	615,841	615,841	615,841	611,887
-	-	-	-	-	-	-	-	-	-	-	-	-	-		60,847	60,847	60,847	56,320	56,320	56,320
-	-	-	-	-	-	-	-	-	-	-	-	-	-		251,763	251,763	251,763	251,763	251,763	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-		1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716
(298)	(298)	(240)	-	-	-	-	-	-	-	-	-	-	-		(545,322)	(545,322)	(545,322)	(545,322)	(545,322)	(545,322)
-	-	-	-	-	-	-	-	-	-	-	-	-	-		88,271	88,271	88,271	88,271	88,271	80,213
-	-	-	-	-	-	-	-	-	-	-	-	-	-		11,144	11,144	11,144	11,144	11,144	10,182

2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
508,602	508,602	508,460	508,460	508,460	419,507	419,507	-	-	-	-	-	-	-	-
8,799,102	8,577,353	8,546,488	8,314,197	6,213,056	5,712,948	5,503,478	2,658,264	2,159,451	2,159,451	212,836	196,882	196,882	196,882	196,882
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,331	1,331	1,331	1,331	1,331	1,331	1,331	1,331	1,331	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
791,446	539,847	538,725	538,725	273,631	203,070	196,759	196,759	183,022	183,022	180,519	50,650	50,650	50,650	50,650
55,678	26,219	26,074	26,074	26,074	4,235	3,411	3,411	2,931	2,931	2,822	-	-	-	-
1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,843,136	1,615,824	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
281,080	265,687	259,543	71,679	69,194	53,331	53,331	47,225	47,225	18,875	18,267	18,267	18,267	18,267	18,267
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
582,164	582,164	582,164	582,164	582,164	582,164	582,164	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
479,921	479,921	479,921	479,921	479,921	479,921	479,921	479,921	479,921	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
545,801	248,054	248,054	248,054	227,146	219,730	85,282	85,282	84,548	84,548	-	-	-	-	-
15,838	15,838	15,838	15,838	14,610	14,610	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	1,668,716	-	-	-	-	-	-
(545,322)	(545,322)	(545,322)	(545,322)	(545,322)	(545,322)	(545,322)	(545,322)	(545,322)	(545,322)	(545,322)	(545,322)	(494,163)	-	-
43,306	43,297	43,297	9,552	8,025	7,369	7,369	6,115	6,115	6,108	-	-	-	-	-
6,247	6,238	6,238	2,210	998	726	726	652	652	645	-	-	-	-	-

2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
13,293	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

Ontario Energy Board

Supporting Documentation:
2013 LDC Persistence Savings Results from IESO

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-c. 2013 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2013 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2013 programs that become available in future evaluation audits are included in the 2013 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)	Net Verified Annual Peak Demand Savings at the End-User Level (kW)					
															2011	2012	2013	2014	2015	2016
1	LDC	Business	Energy Audit Funding	Horizon U	Commerc	EE	2012	Dx		N/A	Audit	1	5	25,176		5	5	5	5	-
2	LDC	Business	Energy Audit Funding	Horizon U	Commerc	EE	2013	Dx		N/A	Audit	8	107	586,485			71	71	71	71
3	LDC	Business	DR-3	Horizon U	Commerc	DR	2013	Dx		N/A	Facilities	5	-	-			597	-	-	-
4	LDC	Business	New Construction	Horizon U	Commerc	EE	2013	Dx		N/A		3	11	38,576			6	6	6	6
5	LDC	Business	peaksaverPLUS	Horizon U	Commerc	DR	2009	Dx		N/A	Devices	2	-	-			1	-	-	-
6	LDC	Business	peaksaverPLUS	Horizon U	Commerc	DR	2011	Dx		N/A	Devices	2	-	-			1	-	-	-
7	LDC	Business	peaksaverPLUS	Horizon U	Commerc	DR	2012	Dx		N/A	Devices	12	-	-			8	-	-	-
8	LDC	Business	peaksaverPLUS	Horizon U	Commerc	DR	2013	Dx		N/A	Devices	4	-	-			3	-	-	-
9	LDC	Business	peaksaverPLUS (IHD)	Horizon U	Commerc	DR	2012	Dx		N/A	Devices	10	-	-			-	-	-	-
10	LDC	Business	peaksaverPLUS (IHD)	Horizon U	Commerc	DR	2013	Dx		N/A	Devices	5	-	-			-	-	-	-
11	LDC	Business	Retrofit	Horizon U	Commerc	EE	2012	Dx		N/A	Projects	29	134	792,821		105	105	102	102	102
12	LDC	Business	Retrofit	Horizon U	Commerc	EE	2013	Dx		N/A	Projects	372	4,031	22,384,514			2,948	2,856	2,838	2,775
13	LDC	Business	Small Business Lighting	Horizon U	Commerc	EE	2013	Dx		N/A	Projects	415	479	1,528,270			453	453	447	414
14	LDC	Consumer	Annual Coupons	Horizon U	Residenti	EE	2013	Dx		Custom lo	measures	14,024	19	276,622			21	21	20	17
15	LDC	Consumer	Appliance Exchange	Horizon U	Residenti	EE	2013	Dx		Dehumidi	Appliance	178	70	124,940			37	37	37	37
16	LDC	Consumer	Appliance Retirement	Horizon U	Residenti	EE	2013	Dx		N/A	Appliance	877	124	793,096			57	57	57	56
17	LDC	Consumer	Bi-Annual Retailer Events	Horizon U	Residenti	EE	2013	Dx		Custom lo	measures	38,196	46	664,698			48	48	45	36
18	LDC	Consumer	Home Assistance Program	Horizon U	Residenti	EE	2013	Dx		N/A	Projects C	3,550	808	4,634,362			808	803	798	781
19	LDC	Consumer	HVAC	Horizon U	Residenti	EE	2012	Dx		Blended L	Equipmen	84	36	61,698		16	16	16	16	16
20	LDC	Consumer	HVAC	Horizon U	Residenti	EE	2013	Dx		Blended L	Equipmen	4,768	1,997	3,426,318			974	974	974	974
21	LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2006	Dx		N/A	Devices	135	-	-			53	-	-	-
22	LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2007	Dx		N/A	Devices	398	-	-			156	-	-	-
23	LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2008	Dx		N/A	Devices	857	-	-			335	-	-	-
24	LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2009	Dx		N/A	Devices	1,365	-	-			539	-	-	-
25	LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2010	Dx		N/A	Devices	1,034	-	-			404	-	-	-
26	LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2011	Dx		N/A	Devices	1,921	-	-			758	-	-	-
27	LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2012	Dx		N/A	Devices	1,617	-	-			628	-	-	-
28	LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2013	Dx		N/A	Devices	2,233	-	-			866	-	-	-
29	LDC	Consumer	peaksaverPLUS (IHD)	Horizon U	Residenti	DR	2012	Dx		N/A	Devices	3,917	-	-			-	-	-	-
30	LDC	Consumer	peaksaverPLUS (IHD)	Horizon U	Residenti	DR	2013	Dx		N/A	Devices	4,451	-	-			-	-	-	-
31	LDC	Industrial	DR-3	Horizon U	Industrial	DR	2013	Dx		N/A	Facilities	9	-	-			13,261	-	-	-
32	LDC	Industrial	Energy Manager	Horizon U	Industrial	EE	2013	Dx		N/A		5	25	198,003			23	17	17	17
33	Non-LDC	Business	peaksaverPLUS	Horizon U	Commerc	DR	2007	Dx		N/A	Devices	76	-	-			49	-	-	-
34	Non-LDC	Business	peaksaverPLUS	Horizon U	Commerc	DR	2008	Dx		N/A	Devices	2	-	-			1	-	-	-
35	Non-LDC	Business	peaksaverPLUS	Horizon U	Commerc	DR	2009	Dx		N/A	Devices	13	-	-			8	-	-	-
36	Non-LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2006	Dx		N/A	Devices	605	-	-			237	-	-	-
37	Non-LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2007	Dx		N/A	Devices	1,016	-	-			402	-	-	-
38	Non-LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2008	Dx		N/A	Devices	1,431	-	-			559	-	-	-
39	Non-LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2009	Dx		N/A	Devices	1,934	-	-			765	-	-	-
40	Non-LDC	Consumer	peaksaverPLUS	Horizon U	Residenti	DR	2010	Dx		N/A	Devices	1,212	-	-			476	-	-	-
41	Non-LDC	Industrial	DR-3	Horizon U	Industrial	DR	2013	Dx		N/A	Facilities	2	-	-			2,588	-	-	-
42	LDC	Consumer	Appliance Retirement	Horizon U	Residenti	EE	2013	Dx		N/A	Appliance	1	0	522			0	0	0	0
43	LDC	Consumer	HVAC	Horizon U	Residenti	EE	2012	Dx		Blended L	Equipmen	1	0	688		0	0	0	0	0
44																				
etc.																				

2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040		Net Verified Annual Energy Savings at the En		
																									2011	2012	2013
-	-	-	-	-	-	-	-																-		-	25,176	25,176
-	-	-	-	-	-	-	-																-		-	-	387,606
-	-	-	-	-	-	-	-																-		-	-	9,571
6	6	6	6	6	6	6	6	6	6														-		-	-	20,831
-	-	-	-	-	-	-	-																-		-	-	2
-	-	-	-	-	-	-	-																-		-	-	2
-	-	-	-	-	-	-	-																-		-	-	12
-	-	-	-	-	-	-	-																-		-	-	2
-	-	-	-	-	-	-	-																-		-	-	-
-	-	-	-	-	-	-	-																-		-	-	-
90	88	88	81	69	44	43	18	14	14														-		-	626,454	626,454
2,525	2,409	2,409	2,407	2,287	1,812	1,241	1,228	675	361	361	315	119	116	116	116								-		-	-	16,367,574
177	177	177	177	177	177	170	167																-		-	-	1,442,489
17	17	17	17	13	13	10	10	10	10	10	10	10	6	6	6								-		-	-	311,606
-	-	-	-	-	-	-	-																-		-	-	65,760
33	-	-	-	-	-	-	-																-		-	-	372,961
36	36	36	36	31	31	23	15	15	14	14	14	12	7	7	7								-		-	-	694,555
773	767	759	759	689	669	656	656	650	650	577	574	574	574	574	574	8							-		-	-	4,634,362
16	16	16	16	16	16	16	16	16	16	16	16	16	16	12									-		-	30,424	30,424
974	974	974	974	974	974	974	974	974	974	974	974	974	974	734									-		-	-	1,639,842
-	-	-	-	-	-	-	-																-		-	-	212
-	-	-	-	-	-	-	-																-		-	-	573
-	-	-	-	-	-	-	-																-		-	-	1,283
-	-	-	-	-	-	-	-																-		-	-	1,882
-	-	-	-	-	-	-	-																-		-	-	1,539
-	-	-	-	-	-	-	-																-		-	-	2,613
-	-	-	-	-	-	-	-																-		-	-	2,378
-	-	-	-	-	-	-	-																-		-	-	673
-	-	-	-	-	-	-	-																-		-	-	-
-	-	-	-	-	-	-	-																-		-	-	-
-	-	-	-	-	-	-	-																-		-	-	331,641
11	-	-	-	-	-	-	-																-		-	-	178,203
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-	-	-	-	-	-	-	-																-		-	-	1,437
-	-	-	-	-	-	-	-																-		-	-	2,040
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-	-	-	-	-	-	-	-																-		-	-	1,725
-	-	-	-	-	-	-	-																-		-	-	100,174
0	-	-	-	-	-	-	-																-		-	-	247
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									-		-	336	336

d-User Level (kWh)

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
25,176	25,176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
387,606	387,606	387,606	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20,831	20,831	20,831	20,831	20,831	20,831	20,831	20,831	20,831	20,831	20,831	20,831	20,831	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
615,907	615,907	615,907	573,378	565,373	565,373	543,805	495,265	385,108	382,363	244,070	229,016	229,016	76,817	-	-	-
16,081,473	16,026,304	15,831,594	14,987,208	14,408,587	14,408,587	14,355,091	13,955,334	10,888,141	6,761,355	6,317,794	3,221,818	2,242,421	2,242,421	1,871,003	341,537	332,980
1,442,489	1,420,165	1,300,853	586,963	586,963	586,963	586,963	586,963	586,963	521,430	511,194	-	-	-	-	-	-
311,606	299,598	253,821	253,821	253,821	253,821	253,609	184,417	184,417	167,680	165,292	165,292	164,613	164,613	164,474	159,391	93,559
65,760	65,760	65,760	-	-	-	-	-	-	-	-	-	-	-	-	-	-
372,961	372,961	371,628	221,738	-	-	-	-	-	-	-	-	-	-	-	-	-
694,555	652,707	509,888	509,888	509,888	509,888	509,287	428,281	428,281	372,673	239,593	239,593	226,949	226,949	225,325	194,494	114,163
4,542,446	4,441,123	4,111,708	3,950,956	3,831,294	3,692,431	3,684,889	2,333,239	2,314,718	2,185,230	2,111,270	2,092,025	2,092,025	1,517,727	1,492,359	1,492,359	1,492,359
30,424	30,424	30,424	30,424	30,424	30,424	30,424	30,424	30,424	30,424	30,424	30,424	30,424	30,424	30,424	30,424	26,486
1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842	1,639,842
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
126,236	126,236	126,236	74,270	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
247	247	247	134	-	-	-	-	-	-	-	-	-	-	-	-	-
336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	312

2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-							-
-	-	-							-
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-	-	-							-
-	-	-							-
-	-	-							-
332,980	332,980	-							-
-	-	-							-
93,559	93,559	-							-
-	-	-							-
-	-	-							-
114,163	114,163	-							-
1,492,359	1,492,359	60,612							-
-	-	-							-
1,424,952	-	-							-
-	-	-							-
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Ontario Energy Board

Supporting Documentation:
2014 LDC Persistence Savings Results from IESO

Legend

User Inputs (Green)
Instructions (Grey)

Table 7-d. 2014 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2014 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.
2. Please ensure that verified adjustments to 2014 programs that become available in future evaluation audits are included in the 2014 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)	Net Verified Annual Peak Demand Savings at the End-User Level (kW)								
															2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
1	LDC	Business	Building Commissioning	Horizon U	Commerci	EE	2014	Dx		n/a	Buildings	2	133	157,250				133	133	133					
2	LDC	Business	Direct Install Lighting	Horizon U	Commerci	EE	2014	Dx		n/a	Projects	991	852	2,940,240				852	847	789	497	497	497	497	497
3	LDC	Business	Energy Audit	Horizon U	Commerci	EE	2011	Dx		n/a	Audit	1	2	48,882	2	2	2	2							
4	LDC	Business	Energy Audit	Horizon U	Commerci	EE	2012	Dx		n/a	Audit	1	0	2,562		0	0	0	0						
5	LDC	Business	Energy Audit	Horizon U	Commerci	EE	2012	Dx		n/a	Audit	1	1	7,687		1	1	1	1						
6	LDC	Business	Energy Audit	Horizon U	Commerci	EE	2013	Dx		n/a	Audit	1	0	514			0	0	0	0					
7	LDC	Business	Energy Audit	Horizon U	Commerci	EE	2013	Dx		n/a	Audit	2	18	193,932			18	18	18	18					
8	LDC	Business	Energy Audit	Horizon U	Commerci	EE	2014	Dx		n/a	Audit	20	267	1,305,471				267	267	267					
9	LDC	Business	High Performance New Construction	Horizon U	Commerci	EE	2012	Dx		n/a		4	85	673,613		85	85	85	85	85	85	85	85	85	85
10	LDC	Business	High Performance New Construction	Horizon U	Commerci	EE	2013	Dx		n/a		4	581	6,403,939			581	581	581	581	581	581	581	581	573
11	LDC	Business	High Performance New Construction	Horizon U	Commerci	EE	2014	Dx		n/a		8	151	521,315				151	151	151	151	151	151	151	151
12	LDC	Business	Retrofit	Horizon U	Commerci	EE	2012	Dx		n/a	Projects	14	162	3,226,823		169	169	162	162	162	157	157	157	157	156
13	LDC	Business	Retrofit	Horizon U	Commerci	EE	2013	Dx		n/a	Projects	29	317	3,131,172			320	317	317	317	312	307	307	306	281
14	LDC	Business	Retrofit	Horizon U	Commerci	EE	2014	Dx		n/a	Projects	457	2,594	19,282,049				2,594	2,586	2,586	2,473	2,473	2,443	2,362	2,362
15	LDC	Consumer	Appliance Exchange	Horizon U	Residentia	EE	2014	Dx		Dehumidi	Appliance	203	42	74,996				42	42	42	42				
16	LDC	Consumer	Appliance Retirement	Horizon U	Residentia	EE	2014	Dx		n/a	Appliance	6	1	626				1	1	1					
17	LDC	Consumer	Appliance Retirement	Horizon U	Residentia	EE	2014	Dx		n/a	Appliance	8	1	2,525				1	1	1	1				
18	LDC	Consumer	Appliance Retirement	Horizon U	Residentia	EE	2014	Dx		n/a	Appliance	203	14	102,437				14	14	14	14				
19	LDC	Consumer	Appliance Retirement	Horizon U	Residentia	EE	2014	Dx		n/a	Appliance	386	23	157,732				23	23	23	23	23			
20	LDC	Consumer	Bi-Annual Retailer Event	Horizon U	Residentia	EE	2014	Dx		Custom lo	measures	195,058	325	4,968,775				325	284	262	262	262	262	262	262
21	LDC	Consumer	Conservation Instant Coupon Booklet	Horizon U	Residentia	EE	2013	Dx		Custom lo	measures	42	0	953			0	0	0	0	0	0	0	0	0
22	LDC	Consumer	Conservation Instant Coupon Booklet	Horizon U	Residentia	EE	2014	Dx		Custom lo	measures	42,295	86	1,153,159				86	81	79	79	79	79	79	79
23	LDC	Home Assist	Home Assistance Program	Horizon U	Residentia	EE	2012	Dx		n/a	Homes	12	1	26,031	1	1	1	1	1	1	1	1	1	1	0
24	LDC	Home Assist	Home Assistance Program	Horizon U	Residentia	EE	2013	Dx		n/a	Homes	206	199	1,418,207			200	200	199	198	197	197	197	197	192
25	LDC	Home Assist	Home Assistance Program	Horizon U	Residentia	EE	2014	Dx		n/a	Homes	3,538	713	8,689,063				717	713	696	689	683	683	680	680
26	LDC	Consumer	HVAC Incentives	Horizon U	Residentia	DR	2013	Dx		Blended L	Equipmen	255	55	190,430			55	55	55	55	55	55	55	55	55
27	LDC	Consumer	HVAC Incentives	Horizon U	Residentia	EE	2012	Dx		n/a	Equipmen	8	2	9,352		2	2	2	2	2	2	2	2	2	2
28	LDC	Consumer	HVAC Incentives	Horizon U	Residentia	EE	2014	Dx		n/a	Equipmen	5,772	1,109	2,035,819				1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109
29	LDC	Other	Time-of-Use Savings	Horizon U	Other	DR	2014	Dx		n/a	n/a		2,487	-				2,487							
30	LDC	Pre-2011 Pr	High Performance New Construction	Horizon U	Commerci	EE	2012	Dx		n/a		1	296	7,918,181		296	296	296	296	296	296	296	296	296	296
31	non-Tier 1	Business	Commercial Demand Response	Horizon U	Commerci	DR	2007	Dx		n/a	Devices	73						41							
32	non-Tier 1	Business	Commercial Demand Response	Horizon U	Commerci	DR	2008	Dx		n/a	Devices	2						1							
33	non-Tier 1	Business	Commercial Demand Response	Horizon U	Commerci	DR	2009	Dx		n/a	Devices	12						7							
34	non-Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2006	Dx		n/a	Devices	575						204							
35	non-Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2007	Dx		n/a	Devices	951						339							
36	non-Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2008	Dx		n/a	Devices	1,336						475							
37	non-Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2009	Dx		n/a	Devices	1,785						636							
38	non-Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2010	Dx		n/a	Devices	1,143						406							
39	non-Tier 1	Industrial	Demand Response 3	Horizon U	Industrial	DR	2014	Dx		n/a	Facilities	2						2,738							
40	Tier 1	Business	Demand Response 3	Horizon U	Commerci	DR	2014	Dx		n/a	Facilities	5						595							
41	Tier 1	Business	Commercial Demand Response	Horizon U	Commerci	DR	2007	Dx		n/a	Devices	2						1							
42	Tier 1	Business	Commercial Demand Response	Horizon U	Commerci	DR	2009	Dx		n/a	Devices	3						2							
43	Tier 1	Business	Commercial Demand Response	Horizon U	Commerci	DR	2011	Dx		n/a	Devices	2						1							
44	Tier 1	Business	Commercial Demand Response	Horizon U	Commerci	DR	2012	Dx		n/a	Devices	12						7							
45	Tier 1	Business	Commercial Demand Response	Horizon U	Commerci	DR	2013	Dx		n/a	Devices	2						1							
46	Tier 1	Business	Commercial Demand Response	Horizon U	Commerci	DR	2014	Dx		n/a	Devices	1						1							
47	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2006	Dx		n/a	Devices	149						53							
48	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2007	Dx		n/a	Devices	437						155							
49	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2008	Dx		n/a	Devices	900						320							
50	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2009	Dx		n/a	Devices	1,474						525							
51	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2010	Dx		n/a	Devices	1,085						386							
52	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2011	Dx		n/a	Devices	1,888						672							
53	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2012	Dx		n/a	Devices	1,572						558							
54	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2013	Dx		n/a	Devices	2,174						771							
55	Tier 1	Consumer	Residential Demand Response	Horizon U	Residentia	DR	2014	Dx		n/a	Devices	2,860						1,016							
56	Tier 1	Industrial	Demand Response 3	Horizon U	Industrial	DR	2014	Dx		n/a	Facilities	11						17,093							
57	Tier 1	Industrial	Energy Managers	Horizon U	Industrial	EE	2012	Dx		n/a		1	6	13,208		7	6	6	6	6	6	7	7	7	7
58	Tier 1	Industrial	Energy Managers	Horizon U	Industrial	EE	2013	Dx		n/a		3	(15)	(255,205)			(21)	(15)	(15)	(15)	(9)	3	3	3	3
59	Tier 1	Industrial	Energy Managers	Horizon U	Industrial	EE	2014	Dx		n/a		9	41	1,056,692				41	41	41	41	41	41	41	41
etc.																									

																			Net Verified Annual Energy Savings at the End-User Level (kWh)							
2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2,011	2,012	2,013	2,014	2,015	2,016	2,017	2,018
													-	-	-	-	-	-	-	-	-	157,250	157,250	157,250	-	-
497	497	488	198										-	-	-	-	-	-	-	-	-	2,940,240	2,919,374	2,709,943	1,775,115	1,775,115
													-	-	-	-	-	-	12,220	12,220	12,220	12,220	-	-	-	-
													-	-	-	-	-	-	-	854	854	854	854	-	-	-
													-	-	-	-	-	-	-	2,562	2,562	2,562	2,562	-	-	-
													-	-	-	-	-	-	-	-	257	257	257	257	-	-
													-	-	-	-	-	-	-	-	96,966	96,966	96,966	96,966	-	-
													-	-	-	-	-	-	-	-	-	1,305,471	1,305,471	1,305,471	1,305,471	-
85	84	84	84	84									-	-	-	-	-	-	-	224,538	224,538	224,538	224,538	224,538	224,388	224,388
573	562	562	562	562	562								-	-	-	-	-	-	-	-	3,201,970	3,201,970	3,201,970	3,201,970	3,201,970	3,201,970
151	151	151	151	151	151	151	0	0					-	-	-	-	-	-	-	-	-	521,315	521,315	521,315	521,315	521,315
155	155	9	9	9	9	9	9	9	9				-	-	-	-	-	-	-	1,220,400	1,220,400	1,200,907	1,200,907	1,200,907	1,183,780	1,183,342
245	186	175	164	154	154	127	4						-	-	-	-	-	-	-	-	1,570,842	1,560,330	1,560,330	1,560,330	1,541,513	1,514,546
2,260	1,920	1,566	1,549	1,012	931	931	638	191	191	191	191		-	-	-	-	-	-	-	-	-	19,282,049	19,255,189	19,255,189	18,858,307	18,858,307
													-	-	-	-	-	-	-	-	-	74,996	74,996	74,996	74,996	-
													-	-	-	-	-	-	-	-	-	626	626	626	-	-
													-	-	-	-	-	-	-	-	-	2,525	2,525	2,525	2,525	-
													-	-	-	-	-	-	-	-	-	102,437	102,437	102,437	102,437	-
													-	-	-	-	-	-	-	-	-	157,732	157,732	157,732	157,732	157,732
262	245	223	189	189	188	188	187	152	152	152	152		-	-	-	-	-	-	-	-	-	4,968,775	4,310,360	3,967,230	3,967,230	3,967,230
0	0	0	0	0	0	0	0	0	0	0			-	-	-	-	-	-	-	-	953	953	907	784	784	784
79	70	50	50	50	50	50	50	22	22	22	22		-	-	-	-	-	-	-	-	-	1,153,159	1,074,242	1,035,848	1,035,848	1,035,848
0	0	0	0	0	0	0	0	0	0	0	0		-	-	-	-	-	-	13,531	13,531	13,531	13,100	12,931	11,246	10,320	9,650
192	190	190	189	189	182	182	182	182	182	182	1		-	-	-	-	-	-	-	-	716,808	712,242	705,966	683,511	672,234	663,399
612	595	586	586	578	578	472	470	470	470	470	470	16	-	-	-	-	-	-	-	-	-	4,387,048	4,302,015	3,979,382	3,842,943	3,737,111
55	55	55	55	55	55	55	55	55	44				-	-	-	-	-	-	-	-	95,215	95,215	95,215	95,215	95,215	95,215
2	2	2	2	2	2	2	2	1					-	-	-	-	-	-	-	3,117	3,117	3,117	3,117	3,117	3,117	3,117
1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	984			-	-	-	-	-	-	-	-	-	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
296	296	296	296	296	296	296	296	296	296	296	296	296	296	296	-	-	-	-	-	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	61	-	-	-	-
													-	-	-	-	-	-	-	-	-	139	-	-	-	-
													-	-	-	-	-	-	-	-	-	155	-	-	-	-
													-	-	-	-	-	-	-	-	-	252	-	-	-	-
													-	-	-	-	-	-	-	-	-	133	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	32	-	-	-	-
													-	-	-	-	-	-	-	-	-	78	-	-	-	-
													-	-	-	-	-	-	-	-	-	165	-	-	-	-
													-	-	-	-	-	-	-	-	-	303	-	-	-	-
													-	-	-	-	-	-	-	-	-	188	-	-	-	-
													-	-	-	-	-	-	-	-	-	332	-	-	-	-
													-	-	-	-	-	-	-	-	-	238	-	-	-	-
													-	-	-	-	-	-	-	-	-	175	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
													-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2	2	2	2									-	-	-	-	-	-	-	5,452	3,878	3,878	3,878	3,878	3,878	5,452
3	3	3	3	3	3								-	-	-	-	-	-	-	-	(153,586)	(101,619)	(101,619)	(112,087)	(60,121)	12,575
41	41	41	39	25	25	25							-	-	-	-	-	-	-	-	-	1,056,692	1,056,692	1,055,205	1,055,205	1,055,205

2,019	2,020	2,021	2,022	2,023	2,024	2,025	2,026	2,027	2,028	2,029	2,030	2,031	2,032	2,033	2,034	2,035	2,036	2,037	2,038	2,039	2,040
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,775,115	1,775,115	1,775,115	1,775,115	1,775,115	1,689,166	647,251	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224,388	224,388	224,388	224,388	222,378	222,378	222,378	222,378	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,201,970	3,201,970	3,175,501	3,175,501	3,106,574	3,106,574	3,106,574	3,106,574	3,106,574	-	-	-	-	-	-	-	-	-	-	-	-	-
521,315	521,315	521,315	521,315	521,315	517,574	517,574	517,574	517,574	509,713	3,900	3,900	-	-	-	-	-	-	-	-	-	-
1,183,342	1,177,272	1,173,289	1,164,034	1,158,726	70,162	70,162	70,162	58,115	27,882	27,882	27,882	27,882	-	-	-	-	-	-	-	-	-
1,514,546	1,495,923	1,386,189	1,189,601	712,037	557,628	489,867	450,278	450,278	366,440	4,275	-	-	-	-	-	-	-	-	-	-	-
18,752,564	18,193,283	18,193,283	17,398,196	14,887,215	12,089,350	11,592,355	7,255,866	6,970,895	6,970,895	4,156,409	495,190	495,190	495,190	495,190	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,967,230	3,967,230	3,965,512	3,965,512	3,688,146	3,585,580	3,031,997	3,031,997	2,988,579	2,988,579	2,984,354	2,426,083	2,426,083	2,426,083	2,426,083	-	-	-	-	-	-	-
784	784	658	658	625	625	625	625	625	625	329	329	329	329	-	-	-	-	-	-	-	-
1,035,848	1,035,848	1,033,860	1,033,860	886,443	812,843	802,720	802,720	797,075	797,075	796,129	356,477	356,477	356,477	356,477	-	-	-	-	-	-	-
9,180	8,958	2,619	2,619	1,983	1,983	1,983	1,983	633	633	633	633	633	633	633	-	-	-	-	-	-	-
658,361	658,361	567,708	567,708	548,115	525,395	522,639	522,639	466,680	462,652	462,652	462,652	462,652	462,652	4,314	-	-	-	-	-	-	-
3,737,111	3,673,667	3,668,714	2,357,679	2,341,311	2,241,455	2,179,343	2,155,177	2,155,177	1,284,030	1,267,421	1,267,421	1,267,421	1,267,421	1,267,421	117,105	-	-	-	-	-	-
95,215	95,215	95,215	95,215	95,215	95,215	95,215	95,215	95,215	95,215	95,215	95,215	85,773	-	-	-	-	-	-	-	-	-
3,117	3,117	3,117	3,117	3,117	3,117	3,117	3,117	3,117	3,117	3,117	2,756	-	-	-	-	-	-	-	-	-	-
2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	2,035,819	1,924,156	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	2,639,394	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5,452	5,452	5,452	2,543	2,543	2,543	2,543	2,543	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12,575	12,575	12,575	12,575	12,575	12,575	12,575	12,575	12,575	-	-	-	-	-	-	-	-	-	-	-	-	-
1,055,205	1,055,205	1,055,205	1,055,205	1,055,205	1,055,205	1,042,263	635,665	635,665	635,665	-	-	-	-	-	-	-	-	-	-	-	-

Ontario Energy Board

Sup
2015 LDC Pers

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-e. 2015 Persisting Savings

Go to Tab 5.

1. LDCs are requested to paste a copy of the 2015 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2015 programs that become available in future evaluation audits are included in the 2015 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes
1		Coupon Initiative								
2		Bi-Annual Retailer Event Initiative								
3		Appliance Retirement Initiative								
4		HVAC Incentives Initiative								
5		Residential New Construction and Major Renovation Initiative								
6		Energy Audit Initiative								
7		Efficiency: Equipment Replacement Incentive Initiative								
8		Direct Install Lighting and Water Heating Initiative								
9		New Construction and Major Renovation Initiative								
10		Existing Building Commissioning Incentive Initiative								
11		Process and Systems Upgrades Initiatives - Project Incentive Initiative								
12		Process and Systems Upgrades Initiatives - Energy Manager Initiative								
13		Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative								
14		Low Income Initiative								
15		Loblaws Pilot								
16		Social Benchmarking Pliot								
17		Conservation Fund Pilot - SEG								
18		Conservation Fund Pilot - EnerNOC								
19		Aboriginal Conservation Program								
20		Program Enabled Savings								
21		Save on Energy Coupon Program								
22		Save on Energy Heating and Cooling Program								
23		Save on Energy Home Assistance Program								
24		Save on Energy Audit Funding Program								
25		Save on Energy Retrofit Program								
etc.										

porting Documentation:
sistence Savings Results from IESO

Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)		Net Verified Annual Peak Demand Savings at the End-User Level (kW)													
					2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
									38	37	37	37	37	37	37	37	37	37	32	32
									102	99	99	99	99	99	99	99	99	99	74	64
									13	13	13	13	7	0	0	0	0	0	0	0
									783	783	783	783	783	783	783	783	783	783	783	783
									62	62	62	62	62	62	62	62	62	62	62	62
									106	106	106	106	0	0	0	0	0	0	0	0
									2,370	2,370	2,330	2,330	2,330	2,324	2,246	2,246	2,190	1,936	1,245	1,194
									1,178	1,019	734	733	733	733	733	733	733	733	720	223
									39	39	39	39	39	39	39	39	39	39	39	39
									250	250	250	0	0	0	0	0	0	0	0	0
									3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	157	157
									116	116	116	116	116	103	103	103	100	92	65	12
									0	0	0	0	0	0	0	0	0	0	0	0
									20	17	17	16	16	16	16	16	12	12	11	11
									0	0	0	0	0	0	0	0	0	0	0	0
									505	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0
									252	250	250	250	250	250	250	249	249	249	224	224
									837	837	837	837	837	837	837	837	837	837	837	837
									0	0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0	0	0	0	0	0	0
									260	260	260	260	260	260	245	245	243	195	75	72

															Net Verified Annual Energy Savings at the End-User Level (kWh)						
2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040		2011	2012	2013	2014	2015	2016	2017
32	32	32	32	13	13	13	13	0	0	0	0	0	0						585,232	580,190	580,190
64	64	64	64	43	43	43	43	0	0	0	0	0	0						1,375,807	1,328,446	1,328,446
0	0	0	0	0	0	0	0	0	0	0	0	0	0						86,849	86,849	86,849
783	783	783	783	783	783	696	0	0	0	0	0	0	0						1,477,035	1,477,035	1,477,035
62	62	62	62	62	62	62	62	57	57	57	0	0	0						219,469	219,469	219,469
0	0	0	0	0	0	0	0	0	0	0	0	0	0						499,499	499,499	499,499
970	795	795	624	336	336	336	336	0	0	0	0	0	0						25,824,643	25,824,643	25,697,363
0	0	0	0	0	0	0	0	0	0	0	0	0	0						4,901,161	4,211,758	3,148,129
39	39	32	0	0	0	0	0	0	0	0	0	0	0						58,323	58,323	58,323
0	0	0	0	0	0	0	0	0	0	0	0	0	0						596,676	596,676	596,676
157	157	157	0	0	0	0	0	0	0	0	0	0	0						29,092,220	29,092,220	29,092,220
0	0	0	0	0	0	0	0	0	0	0	0	0	0						1,382,502	1,382,502	1,382,502
0	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0
11	11	2	2	2	2	2	2	1	0	0	0	0	0						237,547	185,413	176,726
0	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0						2,978,654	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0						417,923	417,923	417,923
224	223	223	222	61	61	61	61	0	0	0	0	0	0						3,913,143	3,879,729	3,879,729
837	837	837	837	837	837	752	0	0	0	0	0	0	0						1,587,453	1,587,453	1,587,453
0	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0	0
44	44	44	37	31	31	31	31	0	0	0	0	0	0						1,883,044	1,883,044	1,882,176

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
580,190	580,190	580,190	580,190	580,033	580,033	580,033	518,769	516,204	516,204	515,276	515,276	515,003	202,745	202,745	202,745	202,745	0
1,328,446	1,328,446	1,328,446	1,328,446	1,328,446	1,328,446	1,328,446	1,178,266	1,018,592	1,018,592	1,018,592	1,018,592	1,018,592	686,140	686,140	686,140	686,140	0
86,432	47,616	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,477,035	1,399,353	0	0
219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	219,469	143,902
499,499	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25,696,945	25,696,945	25,676,804	25,138,822	25,138,822	24,860,563	23,036,754	18,023,880	17,534,117	4,990,062	4,433,065	4,433,065	3,096,171	972,236	972,236	972,236	972,236	0
3,146,287	3,146,287	3,146,287	3,146,287	3,146,287	3,146,287	3,146,287	3,000,236	829,290	0	0	0	0	0	0	0	0	0
58,323	58,323	58,323	58,323	58,323	58,323	58,323	58,323	58,323	58,323	58,323	29,414	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29,092,220	29,092,220	29,092,220	29,092,220	29,092,220	29,092,220	29,092,220	1,377,500	1,377,500	1,377,500	1,377,500	1,377,500	0	0	0	0	0	0
1,382,502	1,358,635	1,320,160	1,320,160	1,312,773	1,299,574	528,341	442,298	80,814	2,948	2,948	2,948	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
169,475	169,475	169,475	166,931	166,831	86,294	85,862	81,001	80,388	79,825	79,825	8,230	8,134	8,134	8,134	8,134	8,134	4,649
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
417,923	417,923	417,923	417,923	417,923	417,923	417,923	417,923	417,923	417,923	417,923	417,923	0	0	0	0	0	0
3,879,729	3,879,729	3,879,729	3,879,729	3,877,505	3,877,505	3,877,505	3,636,835	3,616,432	3,616,432	3,540,890	3,540,890	3,532,881	975,158	975,158	975,158	975,158	0
1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,587,453	1,511,512	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1,882,176	1,882,176	1,882,176	1,786,538	1,786,538	1,755,270	1,432,240	564,489	485,719	149,063	149,063	149,063	94,214	75,233	75,233	75,233	75,233	0

2036	2037	2038	2039	2040
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
143,902	143,902	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year							
								2015	2016	2017	2018	2019	2020	2021	2022
1			Save on Energy Coupon Program				2015 Adjustment	25	25	25	25	25	25	25	25
2			Save on Energy Heating & Cooling Program				2015 Adjustment	90	90	90	90	90	90	90	90
3			Save on Energy New Construction Program				2015 Adjustment	-	-	-	-	-	-	-	-
4			Save on Energy Home Assistance Program				2015 Adjustment	-	-	-	-	-	-	-	-
5			Save on Energy Audit Funding Program				2015 Adjustment	16	16	16	16	16	16	16	16
6			Save on Energy Retrofit Program				2015 Adjustment	475	432	424	424	424	424	402	402
7			Coupon Initiative				2015 Adjustment								
8			Bi-Annual Retailer Event Initiative				2015 Adjustment								
9			HVAC Incentives Initiative				2015 Adjustment	20	20	20	20	20	20	20	20
10			Residential New Construction and Major Renovati				2015 Adjustment	42	42	42	42	42	42	42	42
11			Energy Audit Initiative				2015 Adjustment	72	72	72	72	188	188	188	188
12			Efficiency: Equipment Replacement Incentive Initi				2015 Adjustment	139	139	139	130	130	130	127	127
13			Direct Install Lighting and Water Heating Initiative				2015 Adjustment	-	-	-	-	-	-	-	-
14			New Construction and Major Renovation Initiative				2015 Adjustment	364	364	364	364	364	364	364	364
15			Existing Building Commissioning Incentive Initiativ				2015 Adjustment	-	-	-	-	-	-	-	-
16			Process and Systems Upgrades Initiatives - Project				2015 Adjustment	-	-	-	-	-	-	-	-
17			Process and Systems Upgrades Initiatives - Energy				2015 Adjustment	-	-	-	-	-	-	-	-
18			Process and Systems Upgrades Initiatives - Monito				2015 Adjustment	-	-	-	-	-	-	-	-
19			Low Income Initiative				2015 Adjustment	2	2	2	2	2	2	2	2
20			Save on Energy Coupon Program				2016		1,031	1,031	1,031	1,031	1,031	1,031	1,031
21			Save on Energy Heating & Cooling Program				2016		1,138	1,138	1,138	1,138	1,138	1,138	1,138
22			Save on Energy New Construction Program				2016		4	4	4	4	4	4	4
23			Save on Energy Home Assistance Program				2016		58	58	58	58	58	57	57
24			Save on Energy Audit Funding Program				2016		21	21	21	21	21	21	21
25			Save on Energy Retrofit Program				2016		3,341	3,203	3,203	3,203	3,203	3,185	3,185
26			Save on Energy Small Business Lighting Program				2016		12	12	12	11	11	10	9
27			Save on Energy High Performance New Constructi				2016		64	64	64	64	64	64	64
28			Home Depot Home Appliance Market Uplift Conse				2016								

2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
25	25	22	22	22	22	22	22	11	11	11	11	-	-	-	-	-
90	90	90	90	90	90	90	90	90	90	83	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	16	16	16	11	-	-	-	-	-	-	-	-	-	-	-
398	328	98	67	44	44	44	28	3	3	3	3	-	-	-	-	-
20	20	20	20	20	20	20	20	20	20	18	-	-	-	-	-	-
42	42	42	42	42	42	42	42	10	10	10	10	9	9	9	-	-
188	188	188	188	188	131	-	-	-	-	-	-	-	-	-	-	-
127	113	100	100	67	67	67	51	4	4	4	4	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
364	364	364	364	364	364	158	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
1,031	1,031	1,027	984	984	984	983	853	853	368	-	-	-	-	-	-	-
1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,018	-	-	-	-	-
4	4	4	4	4	4	4	4	-	-	-	-	-	-	-	-	-
57	57	45	44	44	43	43	43	43	43	43	43	43	-	-	-	-
21	21	21	5	-	-	-	-	-	-	-	-	-	-	-	-	-
3,185	3,172	3,172	3,142	2,190	605	605	324	113	113	113	113	113	-	-	-	-
8	7	6	4	3	1	1	1	1	-	-	-	-	-	-	-	-
64	64	64	64	64	64	64	64	23	-	-	-	-	-	-	-	-

		Net Verified Annual Energy Savings at the End-User Level (kWh)										
2040		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
-						388,248	382,738	382,738	382,738	382,738	382,738	382,738
-						172,830	172,830	172,830	172,830	172,830	172,830	172,830
-						-	-	-	-	-	-	-
-						-	-	-	-	-	-	-
-						76,159	76,159	76,159	76,159	76,159	76,159	76,159
-						3,004,373	2,867,197	2,840,727	2,840,727	2,840,727	2,840,727	2,695,898
						3,141	3,081	3,081	3,081	3,081	3,081	3,081
						-	-	-	-	-	-	-
-						37,584	37,584	37,584	37,584	37,584	37,584	37,584
-						807,475	807,475	807,475	807,475	807,475	807,475	807,475
-						338,247	338,247	338,247	338,247	837,746	837,746	837,746
-						679,088	679,088	679,088	650,499	650,499	650,499	623,767
-						-	-	-	-	-	-	-
-						878,463	878,463	878,463	878,463	878,463	878,463	878,463
-						-	-	-	-	-	-	-
-						-	-	-	-	-	-	-
-						-	-	-	-	-	-	-
-						-	-	-	-	-	-	-
-						21,591	17,590	16,949	16,308	16,308	16,308	15,788
-							15,788,572	15,788,572	15,788,572	15,788,572	15,788,572	15,788,572
-							3,798,500	3,798,500	3,798,500	3,798,500	3,798,500	3,798,500
-							18,591	18,591	18,591	18,591	18,591	18,591
-							747,287	747,287	747,287	747,287	747,287	745,739
-							157,712	157,712	157,712	157,712	157,712	157,712
-							24,740,964	23,977,370	23,977,370	23,977,370	23,977,370	23,855,235
-							65,908	65,908	62,249	56,749	53,584	44,903
-							339,878	339,878	339,878	339,878	339,878	339,878
							2,781	2,781	2,781	2,781	2,781	2,781

2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
382,396	382,396	382,396	357,819	357,256	357,256	355,162	355,162	354,426	181,989	181,989
172,830	172,830	172,830	172,830	172,830	172,830	172,830	172,830	172,830	172,830	172,830
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
76,159	76,159	76,159	76,159	76,159	76,159	53,311	-	-	-	-
2,695,898	2,681,930	2,223,924	853,115	740,441	517,391	517,391	517,391	342,200	1,553	1,553
3,064	3,064	3,064	3,103	3,103	3,103	3,066	3,066	3,064	-	-
-	-	-	-	-	-	-	-	-	-	-
37,584	37,584	37,584	37,584	37,584	37,584	37,584	37,584	37,584	37,584	37,584
807,475	807,475	807,475	807,475	807,475	807,475	807,475	807,475	807,475	204,021	204,021
837,746	837,746	837,746	837,746	837,746	837,746	586,422	-	-	-	-
623,767	623,767	510,518	399,681	399,681	204,589	204,589	204,589	155,734	11,858	11,858
-	-	-	-	-	-	-	-	-	-	-
878,463	878,463	878,463	878,463	878,463	878,463	878,463	381,173	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
15,788	9,881	9,881	9,408	9,408	9,408	9,408	1,917	1,917	1,917	1,917
15,788,572	15,786,158	15,786,158	15,715,829	15,495,884	15,486,648	15,486,648	15,404,325	13,341,553	13,341,553	5,859,918
3,798,500	3,798,500	3,798,500	3,798,500	3,798,500	3,798,500	3,798,500	3,798,500	3,798,500	3,798,500	3,798,500
18,591	18,591	18,591	18,591	17,929	17,929	17,929	17,929	17,929	5,463	-
745,739	745,739	745,739	656,028	636,258	636,258	630,946	630,946	630,946	630,946	630,946
157,712	157,712	157,712	157,712	38,937	-	-	-	-	-	-
23,855,235	23,855,235	23,799,097	23,799,097	23,572,348	17,818,087	4,351,452	4,351,452	1,486,326	96,302	96,302
42,087	33,654	27,309	22,379	13,657	9,898	5,288	3,846	3,846	3,846	-
339,878	339,878	339,878	339,878	339,878	339,878	339,878	339,878	339,878	122,121	-
2,781	2,781	2,781	2,781	2,781	2,781	2,781	2,781	1,738	1,738	1,738

2033	2034	2035	2036	2037	2038	2039	2040
181,989	181,989	-	-	-	-	-	-
166,478	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,553	1,553	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
35,925	-	-	-	-	-	-	-
204,021	204,021	192,325	192,325	192,325	-	-	-
-	-	-	-	-	-	-	-
11,858	11,858	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,917	1,917	1,917	-	-	-	-	-
-	-	-	-	-	-	-	-
3,798,500	3,691,334	-	-	-	-	-	-
-	-	-	-	-	-	-	-
630,946	630,946	630,946	-	-	-	-	-
-	-	-	-	-	-	-	-
96,302	96,302	96,302	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,738	-	-	-	-	-	-	-

Energy savings attributed to street lighting project in IESO results

Year	Gross	NTG	Net
2015	12,983,154	78%	10,067,645

Peak Demand Savings attributed to LED Street Lighting Project

Month	Billed kW	SL billed kW prior LED SL Project	Gross kW Reduction	NTG Ratio	Net kW Reduction
Jan-15	6,602.14				
Feb-15	6,594.32				
Mar-15	6,573.63				
Apr-15	6,538.58				
May-15	6,198.97				
Jun-15	5,930.84				
Jul-15	5,691.54				
Aug-15	5,466.39				
Sep-15	5,003.90				
Oct-15	4,966.22				
Nov-15	4,969.82				
Dec-15	4,951.74				
2015 total	**69,488.09**	**80,726**	**11,237.91**	**78%**	**8,714.31**

Ontario Energy Board

Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 2.0 (2017)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	**Tables 1-a and 1-b** provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	**Tables X-1 and X-2** include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	**Tables 2-a, 2-b and 2-c** include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	**Tables 3-a and 3-b** include the distribution rates that are used to calculate lost revenues.
4. 2011-2014 LRAM	**Tables 4-a, 4-b, 4-c and 4-d** include the template 2011-2014 LRAMVA work forms.
5. 2015-2020 LRAM	**Tables 5-a, 5-b, 5-c and 5-d** include the template 2015-2020 LRAMVA work forms.
6. Carrying Charges	**Table 6-b** includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Data	**Tables 7-a to 7-j** should be populated with CDM savings persistence data provided to LDCs from the IESO.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

Ontario Energy Board

LRAMVA Work Form: Inputs-Outputs Schematic

Version 2.0 (2017)

General Note on the LRAMVA Model

The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2017, 2018, 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA work form.

The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA ($) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Legend

	Drop Down List (Blue)

Important Checklist Items

	Highlighted changes to this work form, if any, and provided rationale for the change in Tab 1-a
	Included any necessary assumptions in the "Notes" section of the work form tables and summarized important assumptions in Tab 1-a
	Included the basis and source of the LRAMVA threshold to determine forecast CDM savings in Tab 2
	Included initiative-level persistence savings information as provided by the IESO directly in this work form (pasted in Tabs 7-a, 7-b, etc.)
	Applied IESO verified savings adjustments back to year of program implementation in Tabs 4 and 5
	Included documentation or data substantiating program savings that are included in the claim, but not provided in the IESO's verified results reports, in a new tab in this work form (streetlighting projects, etc.)
	Included documentation or analysis of how rate class allocations were determined each year in a new tab in this work form

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs	Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	LDC	
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c		
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets	
LRAMVA ($) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			Tables 1-a and 1-b
+ Carrying Charges ($) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6		Table 6-a
Total LRAMVA ($) by Rate Class	Tab "1. LRAMVA Summary"			

Service Classifications	Billing Unit	Year
Residential	kWh	2006
GS<50 kW	kWh	2007
GS>50 kW	kW	2008
General Service ≥ 1,000 kW	kW	2009
General Service ≥ 1,500 kW	kW	2010
General Service 1,000 kW and Greater	kW	2011
General Service 1,000 to 4,999 kW	kW	2012
General Service 1,000 to 4,999 kW (co-generation)	kW	2013
General Service 1,500 to 4,999 kW	kW	2014
General Service 3,000 to 4,999 kW	kW	2015
General Service 50 to 1,499 kW	kW	2016
General Service 50 to 2,999 kW	kW	2017
General Service 50 to 4,999 kW	kW	2018
General Service 50 to 499 kW	kW	2019
General Service 50 to 699 kW	kW	2020
General Service 50 to 999 kW	kW	
General Service 500 to 1,499 kW	kW	
General Service 500 to 4,999 kW	kW	
General Service 700 to 4,999 kW	kW	
General Service Demand Billed (50 kW and above) - GSd	kW	
General Service Intermediate 1,000 to 4,999 kW	kW	
Intermediate With Self Generation	kW	
Intermediate With Self Generation - excluding MUSH customers	kW	
Sub-Transmission (Embedded supply to LDC or loads > 500 kW) - ST	kW	
Unmetered Scattered Load	kWh	
Urban General Service Demand Billed (50 kW and above) - UGd	kW	
Embedded Distributor	kW	
Large Use	kW	
Sentinel Lighting	kW	
Standby Power	kW	
Standby Power - 1,500 - 4,999 kW	kW	
Standby Power - 1000-4999 kW	kW	
Standby Power - 50 - 1,499 kW	kW	
Standby Power - 50 - 499 kW	kW	
Standby Power - 50 - 4999 kW	kW	
Standby Power - 50 - 999 kW	kW	
Standby Power - 500 - 4999 kW	kW	
Standby Power - Large Use	kW	
Street Lighting	kW	

Response	Threshold	Tabs
Yes	2013	1. LRAMVA Summary
No	0	2. LRAMVA Threshold
Not Applicable		3. Distribution Rates
		4. 2011-2014 LRAM
		5. 2015-2020 LRAM
		6. Carrying Charges
		7. Persistence Data

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LRAMVA Work Form: Summary Tab

Version 2.0 (2017)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Auto Populated Cells (White)
	Instructions (Grey)

LDC Name	
	Alectra -former PowerStream

Application Details

Please fill in the requested information: a) the amounts approved in the previous LRAMVA application, b) details on the current application, and c) documentation of changes if applicable.

A. Previous LRAMVA Application

Previous LRAMVA Application (EB#)	EB-2014-0108/EB-2015-0003
Application of Previous LRAMVA Claim	2015 IRM Application/2016 CIR
Period of LRAMVA Claimed in Previous Application	2011-2012/2013
Amount of LRAMVA Claimed in Previous Application	$ 206,935.00

B. Current LRAMVA Application

Current LRAMVA Application (EB#)		EB-2017-0024
Application of Current LRAMVA Claim		2018 IRM Application
Period of New LRAMVA in this Application		2014-2015
Actual Lost Revenues ($)	A	**$ 4,938,275**
Forecast Lost Revenues ($)	B	**$ 3,022,977**
Carrying Charges ($)	C	**$ 62,106**
LRAMVA ($) for Account 1568	A-B+C	**$ 1,977,404**

C. Documentation of Changes

Original Amount	$ 1,977,404.34
Amount for Final Disposition	$ 1,977,404.34

Table 1-a. LRAMVA Totals by Rate Class

Please update the customer rate classes applicable to the LDC in Table 1-a below. This will update all tables throughout the workform. The LRAMVA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or IRM Rate Generator Model. If the LDC has more than 14 customer classes, LDCs are required to add rows to Table 1-a and update all tables and formulas in the work form accordingly. Please also ensure that the principle amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMVA claim.

Customer Class	Billing Unit	Principle ($)	Carrying Charges ($)	Total LRAMVA ($)	
Residential	kWh	$5,337	-$1,308	$4,029	charge
GS<50 kW	kWh	$912,141	$31,097	$943,238	charge
GS>50 kW	kW	$931,602	$30,096	$961,697	charge
Large Use	kW	-$10,420	-$363	-$10,784	credit to customer
Unmetered Scattered Load	kWh	-$6,551	-$229	-$6,779	credit to customer
Sentinel Lighting	kW	-$318	-$11	-$329	credit to customer
Street Lighting	kW	$83,508	$2,825	$86,332	charge
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
		$0	$0	$0	
Total		**$1,915,298**	**$62,106**	**$1,977,404**	net revenue

Table 1-b. Annual LRAMVA Breakdown by Year and Rate Class

In column C of Table 1-b below, please indicate with a 'check mark' the years in which LRAMVA has been claimed. This is to ensure that there are no amounts claimed retroactively. If you have inserted a check-mark for a particular year, please delete the amounts associated with actual and forecast lost revenues for all rate classes for that year, up to and including the total. Any prior years that a distributor has claimed lost revenues should not be included in the current LRAMVA disposition, with the exception of the case noted below.

If LDCs are seeking to claim true-up amounts that were previously approved by the OEB, please note that the "Amount Cleared" rows are applicable to the LDC and should be filled out. This may relate to claiming the difference in LRAM approved before the May 19, 2016 Peak Demand Consultation, and the lost revenues that would have been incurred after that consultation, as approved by the OEB. If this is the case, reference to the decision must be noted in the rate application. If this is not the case, LDCs are requested to leave those rows blank.

Depending on the period of LRAMVA to be claimed in the current application, LDCs are expected to adjust the applicable totals for carrying charges in row 83 of this table and the years included in the Total LRAMVA balance in row 84, as appropriate.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting								Total
		kWh	kWh	kW	kW	kWh	kW	kW								
2011 Actuals	Yes								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2011 Forecast									$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared	$0.00															$0.00
2012 Actuals	Yes								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2012 Forecast									$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared	$0.00															$0.00
2013 Actuals	Yes								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
2013 Forecast									$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared	$0.00															$0.00
2014 Actuals		$502,427.32	$635,000.79	$928,484.83	$0.00	$0.00	$0.00	$34,757.24	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,100,670.18
2014 Forecast		($610,069.46)	($232,688.52)	($640,526.18)	($5,204.11)	($3,275.44)	($158.61)	($18,795.83)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($1,510,718.16)
Amount Cleared																
2015 Actuals		$723,048.14	$742,517.17	$1,285,654.38	$0.00	$0.00	$0.00	$86,385.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,837,605.04
2015 Forecast		($610,069.46)	($232,688.52)	($642,011.46)	($5,216.05)	($3,275.44)	($158.98)	($18,839.13)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($1,512,259.05)
Amount Cleared																
Carrying Charges		($1,307.82)	$31,097.08	$30,095.51	($363.49)	($228.56)	($11.08)	$2,824.69	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$62,106.33
Total LRAMVA Balance		**$4,029**	**$943,238**	**$961,697**	**-$10,784**	**-$6,779**	**-$329**	**$86,332.32**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$1,977,404**

Note: LDC to make note of assumptions included above, if any

Table 1-c. Breakdown of Incremental and Persisting Lost Revenues Amounts (Dollars)

LDCs are requested to clear the cells in the table to show only the amounts related to this LRAMVA application. This table is a check on the LRAMVA disposition providing a breakdown of actual incremental and persisting savings by year.

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
2011	$ 228,116.24	$ 171,770.54	$ 232,594.26	$ 288,821.63	$ 271,320.34	$ 260,983.71	$ 207,697.55	$ 63,349.27	$ -	$ -	$ 1,724,653.55
2012		$ 322,570.04	$ 427,117.71	$ 421,946.30	$ 402,457.73	$ 406,018.89	$ 367,235.84	$ 40,965.42	$ -	$ -	$ 2,388,311.93
2013			$ 505,005.73	$ 492,130.78	$ 484,957.18	$ 471,386.76	$ 420,678.17	$ 46,700.69	$ -	$ -	$ 2,420,859.30
2014				$ 863,014.23	$ 803,338.40	$ 810,916.64	$ 801,208.51	$ 125,796.10	$ -	$ -	$ 3,404,273.88
2015					$ 789,146.03	$ 802,739.26	$ 826,036.82	$ 180,264.95	$ -	$ -	$ 2,598,187.07
2016						$ -	$ -	$ -	$ -	$ -	$ -
2017							$ -	$ -	$ -	$ -	$ -
2018								$ -	$ -	$ -	$ -
2019									$ -	$ -	$ -
2020										$ -	$ -
Actual Lost Revenues	$ 228,116.24	$ 494,340.58	$ 1,164,717.70	$ 2,065,912.94	$ 2,751,219.69	$ 2,752,045.25	$ 2,622,856.89	$ 457,076.44	$ -	$ -	$ 12,536,285.73
Forecast Lost Revenues	$ -	$ -	$ 1,491,063.05	$ 1,510,718.16	$ 1,512,259.05	$ 1,553,735.04	$ -	$ -	$ -	$ -	$ 6,067,775.29
Carrying Charges	$ -	$ -	$ -	$ 4,028.12	$ 18,054.48	$ 39,122.75	$ 62,106.33	$ 62,106.33	$ 62,106.33	$ 62,106.33	$ 309,630.67
Total	$ 228,116.24	$ 494,340.58	-$ 326,345.35	$ 559,222.91	$ 1,257,015.12	$ 1,237,432.97	$ 2,684,963.22	$ 519,182.77	$ 62,106.33	$ 62,106.33	$ 6,778,141.12

Note: LDC to make note of assumptions included above, if any

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LRAMVA Work Form: Summary of Changes

Version 2.0 (2017)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Instructions (Grey)

Table X-1. Changes in Assumptions from Generic Inputs in Work Form

Please document any changes in assumptions made to the work form that affect the calculation of LRAMVA. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between savings and adjustments; claiming historical savings persistence beyond a re-basing year; inclusion of additional adjustments affecting distribution rates; use of a different LRAMVA threshold; etc. All important changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	4. 2011-2014 LRAM	B325	Replaced "Small Commercial Demand Response (HD)" with "Business Refrigeration Local	Not in the list of programs; there are no additional rows to enter programs that not listed
2	4. 2011-2014 LRAM	B454	Replaced "Small Commercial Demand Response (HD)" with "Business Refrigeration Local	Not in the list of programs; there are no additional rows to enter programs that not listed
3				
4	4. 2011-2014 LRAM	N326-N326, N454-N455	Added Monthly Multiplies of 12	Business Refrigeration program - savings for GS<50 and GS>50 classes
5	1. LRAMVA Summary			
6		Added Tab 8	Tab added to include S/L adjustment into the LRAMVa model and total claim	For consistent reporting purposes
7	1. LRAMVA Summary	E34, F34	Added principal and carrying interest from Tab 8	For consistent reporting purposes
8				
9				
10				
11				
12				
13				
14				
etc.				

Table X-2. Updates to LRAMVA Disposition

LDCs are requested to document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
etc.				

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LRAMVA Work Form: Forecast Lost Revenues

Version 2.0 (2017)

Legend

User Inputs (Green)
Drop Down List (Blue)
Auto Populated Cells (White)
Instructions (Grey)

Table 2-a. LRAMVA Threshold

2013

Please provide the LRAMVA threshold approved in the cost of service (COS) application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting							
		kWh	kWh	kW	kW	kWh	kW	kW							
kWh	137,099,754	44,207,932	16,984,563	73,463,176	1,251,684	208,627	7,674	976,097							
kW	202,051			195,431	3,732		20	2,868							
Summary		44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0

Basis of Threshold: 0.5* 201X + 20XX + 0.5 * 20XX (if available)

Source of Threshold: 2013 Settlement Agreement, p. X

Table 2-b. LRAMVA Threshold

Please provide the LRAMVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total				Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting							
		kWh	kWh	kW	kW	kWh	kW	kW							
kWh	0														
kW	0														
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Basis of Threshold: 0.5* 201X + 20XX + 0.5 * 20XX (if available)

Source of Threshold: 20XX Settlement Agreement, p. X

Table 2-c. Inputs for LRAMVA Thresholds

Please complete Table 2-c below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option, although it is generally expected that 2 COS applications would have been approved during the 2011 to 2020 period. The LRAMVA threshold values in Table 2-c will be auto-populated in Tabs 4 and 5 of this work form.

Year	LRAMVA Threshold (select year)	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting							
		kWh	kWh	kW	kW	kWh	kW	kW							
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	2013	44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0
2014	2013	44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0
2015	2013	44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0
2016	2013	44,207,932	16,984,563	195,431	3,732	208,627	20	2,868	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above, if any

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LRAMVA Work Form: Distribution Rates

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Tables

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

The rate classes in column B of Table 3 below are auto-populated from the customer class inputs in Table 1-a of the Summary Tab. Please provide the distribution rates by rate year and applicable adjustments per rate class starting from column D of Table 3 below. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months from January to the start of the LDC's rate year, entered in row 16 of Table 3 (referred to as period 1). If rates are already on a January 1 to December 31 timeline, please enter 0 in row 16.

	Billing Unit	May 1, 2010 to Apr 30, 2011	May 1, 2011 to Apr 30, 2012	May 1, 2011 to Dec 31, 2012	Jan 1, 2013 to Dec 31, 2013	Jan 1, 2014 to Dec 31, 2014	Jan 1, 2015 to Dec 31, 2015	Jan 1, 2016 to Dec 31, 2016	Jan 1, 2017 to Dec 31, 2017	update	update	update	update
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months)		*4*	*4*	*4*	*1*	*2*	*12*	*9*	*12*				
Period 2 (# months)		*8*	*8*	*5*	*11*	*10*	*0*	*3*	*0*	*12*	*12*	*12*	*12*
Residential	kWh	$ 0.0134	$ 0.0134	$ 0.0135	$ 0.0136	$ 0.0138	$ 0.0140	$ 0.0143	$ 0.0130				
Adjusted rate		$ 0.0134	$ 0.0134	$ 0.0135	$ 0.0136	$ 0.0138	$ 0.0140	$ 0.0143	$ 0.0130	$ -	$ -	$ -	
Calendar year equivalent			**$ 0.0134**	**$ 0.0101**	**$ 0.0136**	**$ 0.0138**	**$ 0.0138**	**$ 0.0141**	**$ 0.0143**	**$ 0.0098**	**$ -**	**$ -**	
GS<50 kW	kWh	$ 0.0115	$ 0.0115	$ 0.0116	$ 0.0135	$ 0.0137	$ 0.0139	$ 0.0142	$ 0.0183				
Adjusted rate		$ 0.0115	$ 0.0115	$ 0.0116	$ 0.0135	$ 0.0137	$ 0.0139	$ 0.0151	$ 0.0183	$ -	$ -	$ -	
Calendar year equivalent			**$ 0.0115**	**$ 0.0087**	**$ 0.0133**	**$ 0.0137**	**$ 0.0137**	**$ 0.0142**	**$ 0.0151**	**$ -**	**$ -**	**$ -**	
GS>50 kW	kW	$ 3.4668	$ 3.4730	$ 3.5036	$ 3.2397	$ 3.2851	$ 3.3278	$ 3.3877	$ 4.2037				
Adjusted rate		$ 3.4668	$ 3.4730	$ 3.5036	$ 3.2397	$ 3.2851	$ 3.3278	$ 3.5734	$ 4.2037	$ -	$ -	$ -	
Calendar year equivalent			**$ 3.4709**	**$ 2.6175**	**$ 3.2617**	**$ 3.2775**	**$ 3.2851**	**$ 3.3892**	**$ 3.5734**	**$ -**	**$ -**	**$ -**	
Large Use	kW	$ 1.0374	$ 1.0393	$ 1.0484	$ 1.3784	$ 1.3977	$ 1.4159	$ 1.4414	$ 2.2421				
Adjusted rate		$ 1.0374	$ 1.0393	$ 1.0484	$ 1.3784	$ 1.3977	$ 1.4159	$ 1.5173	$ 2.2421	$ -	$ -	$ -	
Calendar year equivalent			**$ 1.0387**	**$ 0.7833**	**$ 1.3509**	**$ 1.3945**	**$ 1.3977**	**$ 1.4413**	**$ 1.5173**	**$ -**	**$ -**	**$ -**	
Unmetered Scattered Load	kWh	$ 0.0086	$ 0.0086	$ 0.0087	$ 0.0155	$ 0.0157	$ 0.0159	$ 0.0162	$ 0.0195				
Adjusted rate		$ 0.0086	$ 0.0086	$ 0.0087	$ 0.0155	$ 0.0157	$ 0.0159	$ 0.0171	$ 0.0195	$ -	$ -	$ -	
Calendar year equivalent			**$ 0.0086**	**$ 0.0065**	**$ 0.0149**	**$ 0.0157**	**$ 0.0157**	**$ 0.0162**	**$ 0.0171**	**$ -**	**$ -**	**$ -**	
Sentinel Lighting	kW	$ 9.2931	$ 9.3098	$ 9.3917	$ 7.8050	$ 7.9143	$ 8.0172	$ 9.8694	$ 8.1615				
Adjusted rate		$ 9.2931	$ 9.3098	$ 9.3917	$ 7.8050	$ 7.9143	$ 8.0172	$ 10.2926	$ 8.1615	$ -	$ -	$ -	
Calendar year equivalent			**$ 9.3042**	**$ 7.0165**	**$ 7.9372**	**$ 7.8961**	**$ 7.9143**	**$ 8.5861**	**$ 10.2926**	**$ -**	**$ -**	**$ -**	
Street Lighting	kW	$ 4.8105	$ 4.8192	$ 4.8616	$ 6.4785	$ 6.5692	$ 6.6546	$ 6.3222	$ 6.7744				
Adjusted rate		$ 4.8105	$ 4.8192	$ 4.8616	$ 6.4785	$ 6.5692	$ 6.6546	$ 6.5943	$ 6.7744	$ -	$ -	$ -	
Calendar year equivalent			**$ 4.8163**	**$ 3.6321**	**$ 6.3438**	**$ 6.5541**	**$ 6.5692**	**$ 6.6395**	**$ 6.5943**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	

Note: LDC to make note of assumptions affecting the distribution rates above, if any

Table 3-a. Distribution Rates by Rate Class

Table 3-a below pulls the average distribution rates from Table 3 above. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used by clearing the rates for year(s) that are not part of the LRAMVA claim. The distribution rates that remain in Table 3-a will be carried over to Tabs 4 and 5 of the work form to calculate lost revenues.

Year	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting							
	kWh	kWh	kW	kW	kWh	kW	kW							
2011	$0.0134	$0.0115	$3.4709	$1.0387	$0.0086	$9.3042	$4.8163	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2012	$0.0101	$0.0087	$2.6175	$0.7833	$0.0065	$7.0165	$3.6321	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2013	$0.0136	$0.0133	$3.2617	$1.3509	$0.0149	$7.9372	$6.3438	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2014	$0.0138	$0.0137	$3.2775	$1.3945	$0.0157	$7.8961	$6.5541	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2015	$0.0138	$0.0137	$3.2851	$1.3977	$0.0157	$7.9143	$6.5692	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2016	$0.0141	$0.0142	$3.3892	$1.4413	$0.0162	$8.5861	$6.6395	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000

Note: LDC to make note of assumptions affecting the distribution rates above, if any

Ontario Energy Board

LRAMVA Work Form:
2011 - 2014 Lost Revenues Work Form

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in

4. LDC are requested to input the applicable rate class allocation percentages indicating the customer's share of consumption to allocate actual savings to the rate classes. The generic template

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if

Tables

Table 4-a. 2011 Lost Revenues Work Form

Program	Results Status	Net Energy Savings (kWh)	Net Demand Savings (kW)	Rate Allocations for LRAMVA							
		2011	2011	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Consumer Program				kWh	kWh	kW	kW	kWh	kW	kW	

Actual CDM Savings in 2011		**33,668,862**	**14,617**	**3,782,022**	**7,280,610**	**26,999**	**0**	**0**	**0**	**0**		
Forecast CDM Savings in 2011				**0**	**0**	**0**	**0**	**0**	**0**	**0**		
Variance to CDM 2011-2014 report		**5,192,089**	**0**									
Distribution Rate in 2011				$0.01340	$0.01150	$3.47090	$1.03870	$0.00860	$9.30420	$4.81630		
Lost Revenue in 2011 from 2011 programs				**$50,679.10**	**$83,727.02**	**$93,710.12**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$**	**228,116.24**
Forecast Lost Revenues in 2011				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$**	**-**
LRAMVA in 2011											**$**	**228,116.24**
2011 Savings Persisting in 2012				3,763,723	7,262,488	26,962	0	0	0	0		
2011 Savings Persisting in 2013				3,763,723	7,028,982	26,956	0	0	0	0		
2011 Savings Persisting in 2014				8,945,422	5,627,647	26,934	0	0	0	0		
2011 Savings Persisting in 2015				8,346,549	5,396,438	25,024	0	0	0	0		
2011 Savings Persisting in 2016				7,195,284	5,355,323	24,686	0	0	0	0		
2011 Savings Persisting in 2017				6,507,195	2,250,186	22,574	0	0	0	0		
2011 Savings Persisting in 2018				6,497,362	2,071,472	20,401	0	0	0	0		
2011 Savings Persisting in 2019				7,064,750	1,941,431	18,078	0	0	0	0		
2011 Savings Persisting in 2020				5,305,397	1,941,431	18,078	0	0	0	0		

Note: LDC to make note of assumptions included above

Table 4-b. 2012 Lost Revenues Work Form Return to top

Program	Results Status	Net Energy Savings (kWh)	Net Demand Savings (kW)	Rate Allocations for LRAMVA							
		2012	2012	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Consumer Program				kWh	kWh	kW	kW	kWh	kW	kW	
Actual CDM Savings in 2012		**47,585,871**	**18,513**	**5,913,745**	**11,605,581**	**61,842**	**0**	**0**	**0**	**0**	
Forecast CDM Savings in 2012				**0**	**0**	**0**	**0**	**0**	**0**	**0**	
Variance to CDM 2011-2014 report		**-1**	**1**								
Distribution Rate in 2012				$0.01010	$0.00870	$2.61750	$0.78330	$0.00650	$7.01650	$3.63210	
Lost Revenue in 2012 from 2011 programs				$38,013.60	$63,183.65	$70,573.29	$0.00	$0.00	$0.00	$0.00	$ 171,770.54
Lost Revenue in 2012 from 2012 programs				$59,728.83	$100,968.56	$161,872.66	$0.00	$0.00	$0.00	$0.00	$ 322,570.04
Total Lost Revenues in 2012				**$97,742.43**	**$164,152.20**	**$232,445.95**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 494,340.58**
Forecast Lost Revenues in 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2012											**$ 494,340.58**
2012 Savings Persisting in 2013				5,866,225	11,410,518	59,962	0	0	0	0	
2012 Savings Persisting in 2014				5,866,225	10,562,874	59,887	0	0	0	0	
2012 Savings Persisting in 2015				5,863,821	9,278,551	59,183	0	0	0	0	
2012 Savings Persisting in 2016				5,400,626	9,277,427	58,499	0	0	0	0	
2012 Savings Persisting in 2017				4,690,258	6,643,803	55,925	0	0	0	0	
2012 Savings Persisting in 2018				4,201,582	6,522,381	54,990	0	0	0	0	
2012 Savings Persisting in 2019				4,196,916	6,513,004	54,990	0	0	0	0	
2012 Savings Persisting in 2020				3,959,486	6,281,978	52,136	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 4-c. 2013 Lost Revenues Work Form Return to top

		Net Energy Savings (kWh)	Net Demand Savings (kW)	Rate Allocations for LRAMVA

Program	Results Status	2013	2013	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Consumer Program				kWh	kWh	kW	kW	kWh	kW	kW	
Actual CDM Savings in 2013		**58,023,337**	**32,555**	**5,785,909**	**9,516,689**	**91,899**	**0**	**0**	**0**	**0**	
Forecast CDM Savings in 2013				**44,207,932**	**16,984,563**	**195,431**	**3,732**	**208,627**	**20**	**2,868**	
Variance to CDM 2011-2014 report		**-1**	**0**								
Distribution Rate in 2013				$0.01360	$0.01330	$3.26170	$1.35090	$0.01490	$7.93720	$6.34380	
Lost Revenue in 2013 from 2011 programs				$51,186.63	$93,485.46	$87,922.17	$0.00	$0.00	$0.00	$0.00	$ 232,594.26
Lost Revenue in 2013 from 2012 programs				$79,780.66	$151,759.89	$195,577.16	$0.00	$0.00	$0.00	$0.00	$ 427,117.71
Lost Revenue in 2013 from 2013 programs				$78,688.36	$126,571.96	$299,745.40	$0.00	$0.00	$0.00	$0.00	$ 505,005.73
Total Lost Revenues in 2013				**$209,655.66**	**$371,817.31**	**$583,244.73**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 1,164,717.70**
Forecast Lost Revenues in 2013				**$601,227.88**	**$225,894.69**	**$637,438.36**	**$5,041.40**	**$3,108.54**	**$159.44**	**$18,192.73**	**$ 1,491,063.05**
LRAMVA in 2013											**-$ 326,345.35**
2013 Savings Persisting in 2014				5,752,822	9,494,260	86,246	0	0	0	0	
2013 Savings Persisting in 2015				5,661,202	9,046,628	86,114	0	0	0	0	
2013 Savings Persisting in 2016				5,273,110	7,579,947	85,428	0	0	0	0	
2013 Savings Persisting in 2017				5,035,852	4,208,329	79,789	0	0	0	0	
2013 Savings Persisting in 2018				4,789,814	4,170,654	77,525	0	0	0	0	
2013 Savings Persisting in 2019				4,758,129	4,170,654	77,525	0	0	0	0	
2013 Savings Persisting in 2020				4,745,439	4,155,187	77,503	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 4-d. 2014 Lost Revenues Work Form Return to Top

Program	Results Status	Net Energy Savings (kWh)	Net Demand Savings (kW)	Rate Allocations for LRAMVA							
		2014	2014	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Consumer Program				kWh	kWh	kW	kW	kWh	kW	kW	
Actual CDM Savings in 2014		**87,740,970**	**42,675**	**15,843,307**	**20,665,641**	**110,223**	**0**	**0**	**0**	**0**	
Forecast CDM Savings in 2014				**44,207,932**	**16,984,563**	**195,431**	**3,732**	**208,627**	**20**	**2,868**	
Variance to CDM 2011-2014 report		**0**	**0**								
Distribution Rate in 2014				$0.01380	$0.01370	$3.27750	$1.39450	$0.01570	$7.89610	$6.55410	
Lost Revenue in 2014 from 2011 programs				$123,446.83	$77,098.77	$88,276.03	$0.00	$0.00	$0.00	$0.00	$ 288,821.63
Lost Revenue in 2014 from 2012 programs				$80,953.91	$144,711.38	$196,281.01	$0.00	$0.00	$0.00	$0.00	$ 421,946.30
Lost Revenue in 2014 from 2013 programs				$79,388.95	$130,071.36	$282,670.47	$0.00	$0.00	$0.00	$0.00	$ 492,130.78
Lost Revenue in 2014 from 2014 programs				$218,637.64	$283,119.28	$361,257.32	$0.00	$0.00	$0.00	$0.00	$ 863,014.23
Total Lost Revenues in 2014				**$502,427.32**	**$635,000.79**	**$928,484.83**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 2,065,912.94**
Forecast Lost Revenues in 2014				**$610,069.46**	**$232,688.52**	**$640,526.18**	**$5,204.11**	**$3,275.44**	**$158.61**	**$18,795.83**	**$ 1,510,718.16**
LRAMVA in 2014											**$ 555,194.78**
2014 Savings Persisting in 2015				13,845,910	18,513,635	109,168	0	0	0	0	
2014 Savings Persisting in 2016				13,159,783	18,007,059	109,168	0	0	0	0	
2014 Savings Persisting in 2017				13,141,079	15,093,923	107,845	0	0	0	0	
2014 Savings Persisting in 2018				12,902,164	15,093,923	103,033	0	0	0	0	
2014 Savings Persisting in 2019				12,683,366	14,758,566	100,468	0	0	0	0	
2014 Savings Persisting in 2020				12,674,558	14,542,210	97,954	0	0	0	0	

Note: LDC to make note of assumptions included above

Ontario Energy Board

LRAMVA Work Form:
2015 - 2020 Lost Revenues Work Form

Legend

- User Inputs (Green)
- Auto Populated Cells (White)
- Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2016 programs that were reported by

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers

4. LDC are requested to input the applicable rate class allocation percentages indicating the customer's share of consumption to allocate actual savings to the rate classes. The generic

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year)

Tables

Table 5-a. 2015 Lost Revenues Work Form Go to Persistence Report

Program	Results Status	Net Energy Savings (kWh)	Net Demand Savings (kW)	Rate Allocations for LRAMVA															
		2015	2015	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting									Total
Legacy Framework				kWh	kWh	kW	kW	kWh	kW	kW									
Actual CDM Savings in 2015		**99,706,929**	**15,543**	**18,677,311**	**11,963,081**	**111,870**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
Forecast CDM Savings in 2015				**44,207,932**	**16,984,563**	**195,431**	**3,732**	**208,627**	**20**	**2,868**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
Variance to CDM Final Verified 2016 report		**0**	**0**																
Distribution Rate in 2015				$0.01380	$0.01370	$3.28510	$1.39770	$0.01570	$7.91430	$6.56920	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2015 from 2011 programs				$115,182.38	$73,931.20	$82,206.76	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 271,320.34
Lost Revenue in 2015 from 2012 programs				$80,920.73	$127,116.15	$194,420.84	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 402,457.73
Lost Revenue in 2015 from 2013 programs				$78,124.58	$123,938.80	$282,893.80	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 484,957.18
Lost Revenue in 2015 from 2014 programs				$191,073.55	$253,636.80	$358,628.05	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 803,338.40
Lost Revenue in 2015 from 2015 programs				$257,746.89	$163,894.22	$367,504.93	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 789,146.03
Total Lost Revenues in 2015				**$723,048.14**	**$742,517.17**	**$1,285,654.38**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 2,751,219.69**
Forecast Lost Revenues in 2015				**$610,069.46**	**$232,688.52**	**$642,011.46**	**$5,216.05**	**$3,275.44**	**$158.98**	**$18,839.13**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 1,512,259.05**
LRAMVA in 2015																			**$ 1,238,960.64**
2015 Savings Persisting in 2016				18,498,335	11,869,887	110,298	0	0	0	0	0	0	0	0	0	0	0	0	
2015 Savings Persisting in 2017				18,493,785	11,241,823	109,650	0	0	0	0	0	0	0	0	0	0	0	0	
2015 Savings Persisting in 2018				18,488,713	11,241,823	108,212	0	0	0	0	0	0	0	0	0	0	0	0	
2015 Savings Persisting in 2019				18,426,148	11,241,823	108,212	0	0	0	0	0	0	0	0	0	0	0	0	
2015 Savings Persisting in 2020				18,331,323	11,241,823	100,988	0	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Ontario Energy Board

LRAMVA Work Form:
Carrying Charges by Rate Class

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. The quarterly interest rates are used to calculate the carrying charges for LRAMVA. Starting from column I, the principle will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rates from column H to determine the monthly variances on carrying charges for each rate class by year.
2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.

Table 6. Prescribed Interest Rates

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	
2018 Q2	
2018 Q3	
2018 Q4	
2019 Q1	
2019 Q2	
2019 Q3	
2019 Q4	
2020 Q1	
2020 Q2	
2020 Q3	

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Month	Period	Quarter	Monthly Rate	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Jan-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2011				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Opening Balance for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

2020 Q4	

Check OEB website

Oct-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-14	2011-2014	Q1	0.12%	-$10.99	$41.07	$29.40	-$0.53	-$0.33	-$0.02	$0.00	$58.59
Mar-14	2011-2014	Q1	0.12%	-$21.98	$82.14	$58.79	-$1.06	-$0.67	-$0.03	$0.00	$117.19
Apr-14	2011-2014	Q2	0.12%	-$32.97	$123.21	$88.19	-$1.59	-$1.00	-$0.05	$2.59	$178.37
May-14	2011-2014	Q2	0.12%	-$43.95	$164.28	$117.58	-$2.13	-$1.34	-$0.06	$5.35	$239.73
Jun-14	2011-2014	Q2	0.12%	-$54.94	$205.35	$146.98	-$2.66	-$1.67	-$0.08	$7.77	$300.74
Jul-14	2011-2014	Q3	0.12%	-$65.93	$246.42	$176.37	-$3.19	-$2.01	-$0.10	$11.61	$363.18
Aug-14	2011-2014	Q3	0.12%	-$76.92	$287.49	$205.77	-$3.72	-$2.34	-$0.11	$16.17	$426.33
Sep-14	2011-2014	Q3	0.12%	-$87.91	$328.56	$235.17	-$4.25	-$2.67	-$0.13	$20.91	$489.67
Oct-14	2011-2014	Q4	0.12%	-$98.90	$369.62	$264.56	-$4.78	-$3.01	-$0.15	$27.06	$554.41
Nov-14	2011-2014	Q4	0.12%	-$109.88	$410.69	$293.96	-$5.31	-$3.34	-$0.16	$31.45	$617.40
Dec-14	2011-2014	Q4	0.12%	-$120.87	$451.76	$323.35	-$5.84	-$3.68	-$0.18	$37.95	$682.49
Total for 2014				**-$725.24**	**$2,710.58**	**$1,940.12**	**-$35.06**	**-$22.07**	**-$1.07**	**$160.86**	**$4,028.12**
Amount Cleared											
Opening Balance for 2015				**-$725.24**	**$2,710.58**	**$1,940.12**	**-$35.06**	**-$22.07**	**-$1.07**	**$160.86**	**$4,028.12**
Jan-15	2011-2015	Q1	0.12%	-$131.86	$492.83	$352.75	-$6.38	-$4.01	-$0.19	$43.39	$746.53
Feb-15	2011-2015	Q1	0.12%	-$120.33	$544.88	$418.45	-$6.91	-$4.35	-$0.21	$44.18	$875.72
Mar-15	2011-2015	Q1	0.12%	-$108.80	$596.92	$484.16	-$7.44	-$4.68	-$0.23	$54.43	$1,014.37
Apr-15	2011-2015	Q2	0.09%	-$72.78	$485.62	$411.46	-$5.97	-$3.75	-$0.18	$43.41	$857.81
May-15	2011-2015	Q2	0.09%	-$64.15	$524.57	$460.63	-$6.36	-$4.00	-$0.19	$49.30	$959.79
Jun-15	2011-2015	Q2	0.09%	-$55.52	$563.51	$509.80	-$6.76	-$4.25	-$0.21	$52.34	$1,058.91
Jul-15	2011-2015	Q3	0.09%	-$46.89	$602.46	$558.97	-$7.16	-$4.50	-$0.22	$59.41	$1,162.06
Aug-15	2011-2015	Q3	0.09%	-$38.26	$641.40	$608.13	-$7.56	-$4.75	-$0.23	$64.73	$1,263.46
Sep-15	2011-2015	Q3	0.09%	-$29.63	$680.35	$657.30	-$7.96	-$5.00	-$0.24	$68.40	$1,363.21
Oct-15	2011-2015	Q4	0.09%	-$21.00	$719.29	$706.47	-$8.36	-$5.25	-$0.25	$76.63	$1,467.52
Nov-15	2011-2015	Q4	0.09%	-$12.37	$758.24	$755.63	-$8.75	-$5.50	-$0.27	$85.95	$1,572.92
Dec-15	2011-2015	Q4	0.09%	-$3.74	$797.18	$804.80	-$9.15	-$5.75	-$0.28	$100.99	$1,684.05
Total for 2015				**-$1,430.56**	**$10,117.84**	**$8,668.68**	**-$123.82**	**-$77.89**	**-$3.77**	**$904.01**	**$18,054.48**
Amount Cleared											
Opening Balance for 2016				**-$1,430.56**	**$10,117.84**	**$8,668.68**	**-$123.82**	**-$77.89**	**-$3.77**	**$904.01**	**$18,054.48**
Jan-16	2011-2016	Q1	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Feb-16	2011-2016	Q1	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Mar-16	2011-2016	Q1	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Apr-16	2011-2016	Q2	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
May-16	2011-2016	Q2	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Jun-16	2011-2016	Q2	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Jul-16	2011-2016	Q3	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Aug-16	2011-2016	Q3	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Sep-16	2011-2016	Q3	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Oct-16	2011-2016	Q4	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Nov-16	2011-2016	Q4	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Dec-16	2011-2016	Q4	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Total for 2016				**-$1,371.86**	**$20,151.39**	**$18,916.29**	**-$238.44**	**-$149.95**	**-$7.27**	**$1,822.60**	**$39,122.75**
Amount Cleared											
Opening Balance for 2017				**-$1,371.86**	**$20,151.39**	**$18,916.29**	**-$238.44**	**-$149.95**	**-$7.27**	**$1,822.60**	**$39,122.75**
Jan-17	2011-2017	Q1	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Feb-17	2011-2017	Q1	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Mar-17	2011-2017	Q1	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Apr-17	2011-2017	Q2	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
May-17	2011-2017	Q2	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Jun-17	2011-2017	Q2	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Jul-17	2011-2017	Q3	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Aug-17	2011-2017	Q3	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Sep-17	2011-2017	Q3	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Oct-17	2011-2017	Q4	0.13%	$6.67	$1,140.18	$1,164.50	-$13.03	-$8.19	-$0.40	$104.38	$2,394.12
Nov-17	2011-2017	Q4	0.13%	$6.67	$1,140.18	$1,164.50	-$13.03	-$8.19	-$0.40	$104.38	$2,394.12
Dec-17	2011-2017	Q4	0.13%	$6.67	$1,140.18	$1,164.50	-$13.03	-$8.19	-$0.40	$104.38	$2,394.12
Total for 2017				**-$1,307.82**	**$31,097.08**	**$30,095.51**	**-$363.49**	**-$228.56**	**-$11.08**	**$2,824.69**	**$62,106.33**
Amount Cleared											

Ontario Energy Board

Supporting Documentation:
LDC Persistence Savings Results from IESO

Version 2.0 (2017)

Legend | Instructions (Grey)

Supporting Documentation

The following tabs 7-a to 7-j must be populated with the verified savings results from the IESO's (or former OPA's) persistence reports.
The persistence data tabs have been structured in a way to match the formatting of the persistence report provided by the IESO.

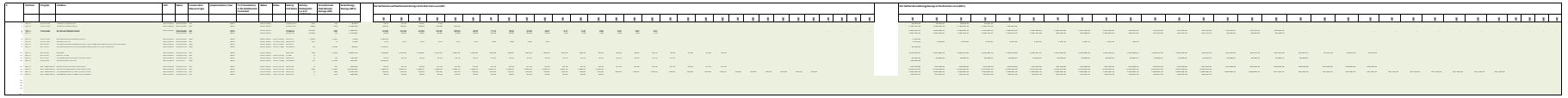
Ontario Energy Board

Supporting Documentation:
2011 LDC Persistence Savings Results from IESO

Legend: User Inputs (Green); Instructions (Grey)

Table 7-a: 2011 Persisting Savings

1. LDCs are requested to waste a copy of the 2011 "LDC CDM Process Results Persistence Report" in the search below as it relates to the calculation of LRAMVA.
2. Please ensure that verified adjustments to 2011 evaluation that become available in future evaluation audits are included in the 2012 Input below.



Ontario Energy Board

Supporting 2012 LDC Persistence

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-b. 2012 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2012 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2012 programs that become available in future evaluation audits are included in the 2012 form below.

	#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)
	1	Tier 1	Consumer	Appliance Exchange	PowerStream	Residential	EE	2012		Final; Released August 31,		Appliances	110	31	55,075
	2	Tier 1	Consumer	Appliance Retirement	PowerStream	Residential	EE	2012		Final; Released August 31,		Appliances	1,664	202	1,412,653
	3	Tier 1	Consumer	Bi-Annual Retailer Event	PowerStream	Residential	EE	2012		Final; Released August 31,		Products	70,426	108	1,939,860
	4	Tier 1	Consumer	Conservation Instant Coupon Booklet	PowerStream	Residential	EE	2012		Final; Released August 31,		Products	2,051	15	88,018
	5	Tier 1				Residential	EE	2012		Final; Released August 31,		Installations	7,614	3,278	5,614,936
	6	Tier 1	Consumer	Residential Demand Response	PowerStream	Residential	DR	2012		Final; Released August 31,		Devices	7,780	3,873	28,587
	7	Tier 1	Business	Direct Install Lighting	PowerStream	C&I	EE	2012		Final; Releasi		Projects	1,628	1,523	5,758,088
	8	Tier 1	Business	Retrofit	PowerStream	C&I	EE	2012		Final; Released August 31,		Projects	388	6,207	33,903,387
	9	Tier 1	Business	Energy Audit	PowerStream	C&I	EE	2012		Final; Released August 31,		Audits	10	52	251,763
	10	Tier 1	Business	Demand Response 3 (part of the Industrial program schedule)	PowerStream	C&I	DR	2012		Final; Released August 31,		Facilities	11	1,232	17,913
	11	Tier 1	Home Assistance	Home Assistance Program	PowerStream	Residential	EE	2012		Final; Released August 31,		Projects	258	36	313
	12	Tier 1	Industrial	Demand Response 3	PowerStream	Industrial	DR	2012		Final; Released August 31,		Facilities	12	3,186	76,793
	13	Tier 1	Industrial	Energy Manager	PowerStream	Industrial		2012		Final; Released August 31,		2013	2	21	40,000
	14	Tier 1	Pre-2011 Progra	High Performance New Construction	PowerStream	C&I	EE	2012		Final; Releasi		Projects	9	644	2,745,770
	15	Tier 1	Other	Program Enabled Savings	PowerStream	Inc.		2012		Final; Released August 31,		2013	11	-	-
for 2011	**16**	**Tier 1 True Up**	**Business**	**Retrofit**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Projects**	**26**	**287**	**1,915,166**
for 2011	**17**	**Tier 1 True Up**	**Business**	**Direct Install Lighting**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Projects**	**2**	**3**	**5,333**
for 2011	**18**	**Tier 1 True Up**	**Business**	**Energy Audit**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Projects**	**1**	**5**	**25,176**
for 2011	**19**	**Tier 1 True Up**	**Business**	**High Performance New Construction**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Buildings**	**1**	**(2)**	**46**
for 2011	**20**	**Tier 1 True Up**	**Pre-2011 Progra**	**High Performance New Construction**	**PowerStrear**	**C&I**	**EE**	**2011**		**Final; Released August 3**		**Buildings**	**5**	**663**	**1,466,819**
for 2011	**21**	**Tier 1 True Up**	**Consumer**	**Residential New Construction**	**PowerStrear**	**Residential**	**EE**	**2011**		**Final; Released August 3**		**Buildings**	**9**	**0**	**4,872**
for 2011	**22**	**Tier 1 True Up**	**Consumer**	**HVAC Incentives**	**PowerStrear**	**Residential**	**EE**	**2011**		**Final; Released August 3**		**Installations**	**(1,634)**	**(445)**	**(445)**
Grouped wit	**23**	**Tier 1 True Up**	**Consumer**	**Bi-Annual Retailer Event**	**PowerStrear**	**Residential**	**EE**	**2011**		**Final; Released August 3**		**Products**	**5,431**	**8**	**157,569**
	24														
	25														
	etc.														

Documentation:
Savings Results from IESO

Net Verified Annual Peak Demand Savings at the End-User Level (kW)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
-	16.1	16.1	16.1	15.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	93.6	93.6	93.6	91.3	54.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	98.2	98.2	98.2	98.2	89.9	76.1	57.0	56.8	56.8	36.6	14.3	14.3	14.3	14.1	14.1	13.7	3.9	3.9	3.9	3.9	-	-	-	-	-	-
-	15.3	15.3	15.3	15.3	15.2	15.2	13.0	13.0	13.0	13.0	0.2	0.2	0.2	0.2	0.2	0.2	-	-	-	-	-	-	-	-	-	-
-	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,635.2	1,253.6	-	-	-	-	-	-	-
-	3,872.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,437.1	1,435.0	1,234.1	946.7	946.4	244.0	244.0	234.6	234.6	234.6	218.8	218.8	14.7	14.7	14.7	-	-	-	-	-	-	-	-	-	-	-
-	4,689.8	4,669.6	4,662.0	4,590.8	4,590.8	4,349.0	4,254.2	4,254.2	4,008.7	2,730.4	2,629.9	2,629.9	980.6	937.7	937.7	222.5	155.3	155.3	155.3	155.3	-	-	-	-	-	-
-	51.8	51.8	51.8	51.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,232.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	35.9	34.5	34.5	34.5	34.4	34.4	33.5	33.5	26.1	23.7	22.2	22.2	18.1	18.1	10.7	10.1	10.1	10.1	10.1	10.1	1.3	-	-	-	-	-
-	3,186.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	644.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210.6	**210.6**	**210.6**	**209.4**	**205.1**	**205.1**	**169.5**	**104.3**	**89.7**	**89.7**	**87.9**	**87.9**	**11.9**	**0.8**	**0.7**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**s**	**-**	**-**	**-**	**-**
2.5	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
5.2	**5.2**	**5.2**	**5.2**	**5.2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
(0.9)	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**(0.9)**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
331.3	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**331.3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
0.2	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
(445.3)	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(445.3)**	**(358.3)**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
7.2	**7.2**	**7.2**	**7.2**	**7.2**	**6.5**	**3.7**	**3.7**	**3.7**	**1.2**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

				Net Verified Annual Energy Savings at the End-User Level (kWh)															
2038	2039	2040		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
-	-	-		-	28,384.0	28,384.0	28,384.0	28,029.6	-	-	-	-	-	-	-	-	-	-
-	-	-		-	662,322.5	662,322.5	662,322.5	660,272.8	411,737.3	-	-	-	-	-	-	-	-	-
-	-	-		-	1,777,858.0	1,777,858.0	1,777,858.0	1,777,858.0	1,598,181.3	1,299,549.6	886,426.1	884,583.5	884,583.5	449,301.1	333,440.0	323,077.3	323,077.3	300,521.7
-	-	-		-	92,817.4	92,817.4	92,817.4	92,817.4	91,422.9	91,422.9	43,050.7	42,813.1	42,813.1	42,813.1	6,953.5	5,600.0	5,600.0	4,812.4
-	-	-		-	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8
-	-	-		-	28,586.8	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-		-	5,424,342.7	5,415,635.0	4,573,454.4	3,341,962.3	3,340,837.5	891,386.3	891,386.3	882,009.2	882,009.2	882,009.2	726,932.6	726,932.6	14,695.8	14,695.8
-	-	-		-	25,834,396.8	25,767,976.2	25,742,596.8	25,509,177.4	25,509,177.4	24,717,523.6	24,157,030.4	24,157,030.4	23,087,410.6	15,754,901.7	14,199,021.1	14,131,085.3	4,337,256.2	4,196,413.5
-	-	-		-	251,762.5	251,762.5	251,762.5	251,762.5	-	-	-	-	-	-	-	-	-	-
-	-	-		-	17,912.5	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-		-	313.1	287.5	287.5	287.5	284.1	284.1	267.8	266.2	123.5	121.3	108.2	108.2	94.8	94.8
-	-	-		-	76,793.0	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-		-	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	36,000.0	-	-	-
-	-	-		-	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	2,745,769.9	-	-
-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	**-**	**-**		**1,423,968.7**	**1,423,968.7**	**1,423,968.7**	**1,419,671.9**	**1,403,001.4**	**1,402,953.0**	**1,252,094.4**	**910,524.5**	**854,405.4**	**854,405.4**	**831,143.2**	**800,103.1**	**291,728.5**	**249,103.9**	**248,859.2**
-	**-**	**-**		**4,951.6**	**4,951.6**	**4,951.6**	**4,951.6**	**4,951.6**	**4,951.6**	**691.4**	**691.4**	**691.4**	**691.4**	**486.8**	**486.8**	**-**	**-**	**-**
-	**-**	**-**		**25,176.3**	**25,176.3**	**25,176.3**	**25,176.3**	**25,176.3**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
-	**-**	**-**		**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**	**22.8**
-	**-**	**-**		**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**	**733,409.4**
-	**-**	**-**		**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**	**2,436.2**
-	**-**	**-**		**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**	**(814,450.3)**
-	**-**	**-**		**144,940.9**	**144,940.9**	**144,940.9**	**144,940.9**	**144,940.9**	**131,709.7**	**71,108.6**	**71,094.1**	**71,094.1**	**15,683.9**	**13,176.2**	**12,099.8**	**12,099.8**	**10,041.0**	**10,041.0**

2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
300,521.7	296,410.7	83,167.1	83,167.1	83,167.1	83,167.1	-	-	-	-	-	-	-	-	-
4,812.4	4,634.4	-	-	-	-	-	-	-	-	-	-	-	-	-
2,761,284.8	2,761,284.8	2,761,284.8	2,761,284.8	2,420,037.4	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14,695.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,196,413.5	646,031.5	460,511.6	460,511.6	460,511.6	460,511.6	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36.7	31.8	31.8	31.8	31.8	31.8	9.5	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
245,946.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(814,450.3)	**(814,450.3)**	**(814,450.3)**	**(736,838.6)**	-	-	-	-	-	-	-	-	-	-	-
10,028.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Ontario Energy Board

Supp
2013 LDC Persi

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-c. 2013 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2013 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2013 programs that become available in future evaluation audits are included in the 2013 form below.

	#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)
for 2012	1	LDC	Business	Energy Audit Funding	PowerStrean	Commercial	EE	2012	Dx		N/A	Audit	1.0	5.2	25,176.3
	2	LDC	Business	Energy Audit Funding	PowerStream	Commercial &	EE	2013	Dx		N/A	Audit	9.0	120.8	659,796.2
	3	LDC	Business	DR-3	PowerStream	Commercial &	DR	2013	Dx		N/A	Facilities	17.0		
	4	LDC	Business	New Construction	PowerStream	Commercial &	EE	2013	Dx		N/A		4.0	1,441.2	2,925,209.4
for 2012	5	LDC				Commercial	EE	2012	Dx		N/A	Projects	47.0	755.2	4,063,658.7
	6	LDC	Business	Retrofit	PowerStream	Commercial &	EE	2013	Dx		N/A	Projects	727.0	7,036.7	38,768,552.6
for 2012	7	LDC	Business	Small Business Lighting	PowerStrean	Commercial	EE	2012	Dx		N/A	Projects	3.0	3.4	14,832.5
	8	LDC	Business	Small Business Lighting	PowerStream	Commercial &	EE	2013	Dx		N/A	Projects	2,315.0	2,463.2	8,416,741.6
	9	LDC	Consumer	Annual Coupons	PowerStream	Residential	EE	2013	Dx		Custom loads	measures	23,028.1	30.8	454,211.3
	10	LDC	Consumer	Appliance Exchange	PowerStream	Residential	EE	2013	Dx		Dehumidifier	Appliances	187.0	73.6	131,257.6
	11	LDC	Consumer	Appliance Retirement	PowerStream	Residential	EE	2013	Dx		N/A	Appliances	830.0	113.5	752,637.7
	12	LDC	Consumer	Bi-Annual Retailer Events	PowerStream	Residential	EE	2013	Dx		Custom loads	measures	62,717.2	75.8	1,091,430.9
	13	LDC	Consumer	Home Assistance Program	PowerStream	Residential	EE	2013	Dx		N/A	Projects Com	906.0	45.5	595,251.2
	14	LDC	Consumer	HVAC	PowerStream	Residential	EE	2013	Dx		Blended Load	Equipment	7,946.0	3,411.6	5,927,244.8
for 2011	15	LDC	Consumer	HVAC	PowerStrean	Residential	EE	2011	Dx		Blended Loa	Equipment	5.0	2.3	4,253.8
for 2012	16	LDC	Consumer	HVAC	PowerStrean	Residential	EE	2012	Dx		Blended Loa	Equipment	160.0	74.1	132,515.3
	17	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2006	Dx		N/A	Devices	48.0		
	18	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2007	Dx		N/A	Devices	487.0		
	19	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2008	Dx		N/A	Devices	623.0		
	20	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2009	Dx		N/A	Devices	3,537.0		
	21	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2010	Dx		N/A	Devices	1,418.0		
	22	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2011	Dx		N/A	Devices	2,182.0		
	23	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2012	Dx		N/A	Devices	1,855.0		
	24	LDC	Consumer	peaksaverPLUS	PowerStream	Residential	DR	2013	Dx		N/A	Devices	11,002.0		
	25	LDC	Consumer	peaksaverPLUS (IHD)	PowerStream	Residential	DR	2012	Dx		N/A	Devices	6,205.0		
	26	LDC	Consumer	peaksaverPLUS (IHD)	PowerStream	Residential	DR	2013	Dx		N/A	Devices	13,473.0		
	27	LDC	Industrial	DR-3	PowerStream	Industrial	DR	2013	Dx		N/A	Facilities	10.0		
	28	LDC	Industrial	DR-3	PowerStream	Industrial	DR	2013	Dx		N/A	Facilities	5.0		
	29	LDC	Industrial	Energy Manager	PowerStream	Industrial	EE	2013	Dx		N/A		40.0	467.5	4,130,757.4
for 2011	30	LDC	Other	Program Enabled Savings	PowerStrean	Other	EE	2011	Dx		N/A		1.0	3.2	5,574.0
for 2012	31	LDC	Other	Program Enabled Savings	PowerStrean	Other	EE	2012	Dx		N/A		16.0	184.7	1,234,217.0
	32	LDC	Other	Program Enabled Savings	PowerStream	Other	EE	2013	Dx		N/A		4.0	5.2	7,515.0
	33	LDC	Pre-2011	HPNC	PowerStream	Commercial &	EE	2013	Dx		N/A		1.0		
	34	LDC	Consumer	Appliance Retirement	PowerStream	Residential	EE	2013	Dx		N/A	Appliances	0.9	0.1	856.5
for 2012	35	LDC	Consumer	HVAC	PowerStrean	Residential	EE	2012	Dx		Blended Loa	Equipment	1.3	0.6	1,129.4

›orting Documentation:
‹istence Savings Results from IESO

Net Verified Annual Peak Demand Savings at the End-User Level (kW)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
	5.2	5.2	5.2	5.2																				
		79.3	79.3	79.3	79.3																			
		1,921.5																						
		778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3	778.3	729.2	729.2	729.2	729.2	726.4	-	-	-	-	-	-	-	-
	493.8	493.8	493.6	490.4	490.4	479.3	475.4	475.4	468.0	442.0	382.9	371.9	327.0	321.9	321.9	234.1	13.7	13.7	13.7	13.7	-	-	-	-
		5,114.5	5,108.3	5,098.2	5,060.0	4,867.3	4,789.9	4,789.9	4,788.2	4,659.9	4,124.1	3,485.7	3,471.8	1,505.0	1,463.4	1,463.4	1,263.6	421.7	414.9	414.9	414.9	-	-	-
	3.2	3.2	3.2	2.8	2.8	0.5	0.5	0.5	0.5	0.5	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-
		2,326.6	2,326.6	2,206.9	1,825.6	760.5	756.6	756.6	743.5	743.5	743.5	717.6	324.7	27.2	27.2	27.2	-	-	-	-	-	-	-	-
-	-	34.3	34.3	33.1	28.3	28.3	28.3	28.3	28.3	21.2	21.2	17.0	17.0	17.0	17.0	17.0	17.0	16.4	9.6	9.6	9.6	-	-	-
		38.7	38.7	38.7	38.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		53.0	53.0	53.0	52.0	32.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	78.6	78.6	74.3	59.5	59.5	59.5	59.5	59.4	51.1	51.1	37.1	23.9	23.9	23.5	23.5	23.2	20.0	11.8	11.8	11.8	-	-	-
-	-	45.5	44.1	44.0	40.8	39.4	38.3	37.0	37.0	23.3	23.0	18.9	18.9	15.9	15.9	6.0	4.9	4.9	4.9	4.9	4.9	3.1	-	-
		1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,657.8	1,286.8	-	-	-	-
1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.1	-	-	-	-	-	-
	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	27.1	-	-	-	-
		27.2																						
		276.0																						
		353.1																						
		1,987.9																						
		795.2																						
		1,220.3																						
		1,038.7																						
		6,198.8																						
		-																						
		-																						
		4,959.4																						
		1,446.9																						
-	-	420.8	95.7	95.7	84.7	20.0	0.7	0.7	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2	3.2	3.2	3.2	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	184.7	184.7	184.7	184.7	184.7	170.0	170.0	170.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	52.0	52.0	52.0	52.0	52.0	-	-	-	-
-	-	5.2	5.2	5.2	5.2	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5											
-	-	0.1	0.1	0.1	0.1	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	-	-	-	-

						Net Verified Annual Energy Savings at the End-User Level (kWh)												
2036	2037	2038	2039	2040		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
							25,176.3	**25,176.3**	**25,176.3**	**25,176.3**								
								436,056.9	436,056.9	436,056.9	436,056.9							
								28,335.8										
-	-	-	-	-		-	-	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,579,613.1	1,274,189.2
-	**-**	**-**	**-**	**-**		**-**	**2,712,548.2**	**2,712,548.2**	**2,711,913.9**	**2,700,377.5**	**2,700,377.5**	**2,660,248.3**	**2,642,538.8**	**2,642,538.8**	**2,612,035.6**	**2,494,611.5**	**2,221,019.9**	**2,175,842.0**
-	-	-	-	-		-	-	28,469,682.0	28,448,544.1	28,412,483.3	28,293,824.3	27,648,870.3	27,240,344.3	27,240,344.3	27,195,210.4	26,756,851.7	23,875,070.1	20,057,295.8
-	**-**	**-**	**-**	**-**			**13,972.8**	**13,972.8**	**13,972.8**	**12,582.6**	**12,582.6**	**3,085.0**	**3,085.0**	**3,085.0**	**3,085.0**	**3,085.0**	**1,313.9**	**1,313.9**
-	-	-	-	-				7,944,312.5	7,944,312.5	7,498,603.0	6,038,248.3	2,701,017.2	2,688,801.7	2,688,801.7	2,675,740.5	2,675,740.5	2,675,740.5	2,440,160.2
-	-	-	-	-		-	-	511,654.7	511,654.7	491,937.7	416,772.7	416,772.7	416,772.7	416,772.7	416,425.4	302,811.2	302,811.2	275,330.0
-	-	-	-	-				69,085.3	69,085.3	69,085.3	69,085.3	-	-	-	-	-	-	-
-	-	-	-	-				354,569.7	354,569.7	354,569.7	353,646.8	219,260.2	-	-	-	-	-	-
-	-	-	-	-		-	-	1,140,455.9	1,140,455.9	1,071,740.7	837,233.1	837,233.1	837,233.1	837,233.1	836,246.5	703,234.7	703,234.7	611,927.6
-	-	-	-	-		-	-	595,251.2	568,879.2	566,404.8	504,869.8	478,089.0	456,920.9	431,665.8	422,616.0	159,748.1	159,456.1	123,635.3
-	-	-	-	-				2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8
-	**-**	**-**	**-**	**-**		**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**
-	**-**	**-**	**-**	**-**			**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**
								61.6										
								646.7										
								806.8										
								5,016.0										
								2,113.6										
								3,120.7										
								2,639.2										
								1,843.8										
								-										
								-										
								124,709.8										
								32,946.1										
-	-	-	-	-		-	-	3,717,681.6	1,523,477.5	1,523,477.5	1,356,131.5	693,704.6	510,624.0	510,624.0	510,624.0	-	-	-
-	**-**	**-**	**-**	**-**		**5,574.0**	**5,574.0**	**5,574.0**	**5,574.0**	**5,574.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
-	**-**	**-**	**-**	**-**		**-**	**1,234,217.0**	**1,234,217.0**	**1,234,217.0**	**1,234,217.0**	**1,234,217.0**	**1,182,970.0**	**1,182,970.0**	**1,182,970.0**	**841,617.0**	**841,617.0**	**841,617.0**	**841,617.0**
-	-	-	-	-		-	-	7,515.0	7,515.0	7,515.0	7,515.0	7,515.0	-	-	-	-	-	-
								221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0	221,916.0
-	-	-	-	-		-	-	406.0	406.0	406.0	406.0	219.3	-	-	-	-	-	-
-	**-**	**-**	**-**	**-**		**-**	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**

2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
1,274,189.2	1,274,189.2	1,274,189.2	1,257,812.7	-	-	-	-	-	-	-	-	-	-	-	-	-
1,905,964.5	**1,887,539.0**	**1,887,539.0**	**1,359,885.8**	**35,763.0**	**35,763.0**	**35,763.0**	**35,763.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
19,683,069.9	8,197,275.5	8,046,095.0	8,046,095.0	6,637,302.8	885,974.3	870,640.1	870,640.1	870,640.1	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
965,484.2	27,183.5	27,183.5	27,183.5	-	-	-	-	-	-	-	-	-	-	-	-	-
271,409.1	271,409.1	270,293.4	270,293.4	270,064.7	261,719.3	153,623.4	153,623.4	153,623.4	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
393,410.3	393,410.3	372,648.7	372,648.7	369,982.8	319,357.3	187,455.6	187,455.6	187,455.6	-	-	-	-	-	-	-	-
123,635.3	113,504.0	113,504.0	36,414.7	27,437.7	27,437.7	27,437.7	27,437.7	27,437.7	22,729.6	-	-	-	-	-	-	-
2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,830,425.8	2,498,643.1	-	-	-	-	-	-	-	-	-
2,560.2	**2,560.2**	**2,560.2**	**2,560.2**	**2,560.2**	**2,278.6**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
64,771.2	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**64,771.2**	**59,593.7**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
841,617.0	**841,617.0**	**841,617.0**	**379,600.0**	**379,600.0**	**379,600.0**	**379,600.0**	**379,600.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
221,916.0																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
551.0	**551.0**	**551.0**	**551.0**	**551.0**	**551.0**	**512.8**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Ontario Energy Board

Supporting Doc
2014 LDC Persistence Sav

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-d. 2014 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2014 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2014 programs that become available in future evaluation audits are included in the 2014 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)
1		Consumer	Appliance Retirement				2014							
2		Consumer	Appliance Exchange				2014							
3		Consumer	HVAC				2014							
4		Consumer	Conservation Instant Coupons Initiative				2014							
5							2014							
6		Consumer	New Construction				2014							
7		Business	Retrofit				2014							
8		Business	SBL				2014							
9		Business	Commissioning				2014							
10		Business	New Construction				2014							
11		Business	Audit Funding				2014							
12		Industrial	EEM				2014							
13		Industrial	REM				2014							
14		Low Income	HAP				2014							
15		Business	Loblaws Pilot				2014							
16		Program Enabled	Program Enabled Savings											
17														
18														
19														
20														
21														
22														
23														
24														
25														
etc.														

umentation:
ings Results from IESO

Net Verified Annual Peak Demand Savings at the End-User Level (kW)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
0	0	0	52	52	52	51	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	49	49	49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	2,097	1,887	0	0	0	0	0	0	0	0
0	0	0	150	141	136	136	136	136	136	136	136	120	85	85	85	85	85	84	37	37	37	37	0	0	0	0	0	0	0
0	0	0	534	466	431	431	431	431	431	430	430	402	366	310	310	308	308	308	250	250	250	250	0	0	0	0	0	0	0
0	0	0	9	9	9	9	9	9	9	9	9	9	9	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
0	0	0	6,546	6,545	6,545	6,434	6,434	6,434	6,190	6,190	5,880	4,849	3,759	3,664	2,211	2,207	2,207	1,778	465	465	465	465	0	0	0	0	0	0	0
0	0	0	2,609	2,556	2,429	1,561	1,561	1,561	1,561	1,560	1,560	1,560	1,536	455	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	58	58	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,555	2,544	2,542	2,542	2,517	11	11	0	0	0	0	0	0	0	0	0	0
0	0	0	401	401	401	401	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	221	205	205	205	205	205	205	205	205	205	130	67	65	65	59	48	48	48	48	48	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	34	34	32	31	30	30	29	29	19	19	17	17	15	15	4	4	4	4	4	4	2	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	217	217	217	217	217	12	12	12	12	12	12	12	12	12	12	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Net Verified Annual Energy Savings at the End-User Level (kWh)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
0	0	0	347,037	347,037	347,037	346,306	218,798	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	86,818	86,818	86,818	86,818	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,877,285	3,688,983	0
0	0	0	2,017,781	1,874,707	1,798,259	1,798,259	1,798,259	1,798,259	1,798,259	1,794,996	1,794,996	1,549,058	1,369,921	1,353,300	1,353,300	1,345,466	1,345,466	1,342,411	586,130	586,130	586,130	586,130
0	0	0	8,158,701	7,077,587	6,514,170	6,514,170	6,514,170	6,514,170	6,514,170	6,511,348	6,511,348	6,055,916	5,887,503	4,978,522	4,978,522	4,907,230	4,907,230	4,900,292	3,983,616	3,983,616	3,983,616	3,983,616
0	0	0	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	150,061	107,285	107,285	107,285	107,285	107,285	107,285	107,285	107,285
0	0	0	43,902,735	43,900,082	43,900,082	43,507,635	43,507,635	43,507,635	41,962,234	41,962,234	40,321,102	33,509,881	26,297,460	25,370,302	15,675,913	15,663,945	15,663,945	12,405,527	1,075,928	1,075,928	1,075,928	1,075,928
0	0	0	9,552,857	9,343,643	8,837,067	5,978,873	5,978,873	5,978,873	5,978,873	5,978,303	5,978,303	5,978,303	5,753,472	1,486,043	9,627	9,627	9,627	0	0	0	0	0
0	0	0	109,537	109,537	109,537	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,971,154	7,952,311	7,947,990	7,947,990	7,736,655	83,792	83,792	0	0	0
0	0	0	1,958,207	1,958,207	1,958,207	1,958,207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	1,183,172	814,239	391,376	322,485	322,485	309,525	295,779	295,779	295,779	295,779	295,779
0	0	0	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	2,009	0	0	0	0	0	0	0	0
0	0	0	433,704	432,415	386,154	368,180	343,592	343,592	334,783	329,674	132,539	132,141	118,774	118,774	109,986	109,986	20,541	19,291	19,291	19,291	19,291	19,291
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1,291,513	1,291,513	1,291,513	1,291,513	1,291,513	112,076	112,076	112,076	112,076	112,076	112,076	112,076	112,076	112,076	112,076	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2034	2035	2036	2037	2038	2039	2040
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
107,285	107,285	107,285	107,285	107,285	107,285	107,285
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
15,192	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

Ontario Energy Board

Supporting Docu
2015 LDC Persistence Saving

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-e. 2015 Persisting Savings

Go to Tab 5.

1. LDCs are requested to paste a copy of the 2015 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2015 programs that become available in future evaluation audits are included in the 2015 form below.

	#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)
	1		Coupon Initiative												
	2		Bi-Annual Retailer Event Initiative												
	3		Appliance Retirement Initiative												
	4		HVAC Incentives Initiative												
	5														
	6		Energy Audit Initiative												
	7		Efficiency: Equipment Replacement Incentive Initiative												
	8		Direct Install Lighting and Water Heating Initiative												
	9		New Construction and Major Renovation Initiative												
	10		Existing Building Commissioning Incentive Initiative												
	11		Process and Systems Upgrades Initiatives - Project Incentive Initiative												
	12		Process and Systems Upgrades Initiatives - Energy Manager Initiative												
	13		Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative												
	14		Low Income Initiative												
	15		Loblaws Pilot												
	16		Social Benchmarking Pliot												
	17		Conservation Fund Pilot - SEG												
	18		Conservation Fund Pilot - EnerNOC												
	19		Aboriginal Conservation Program												
	20		Program Enabled Savings												
New Framewo	21		Save on Energy Coupon Program												
New Framewo	22		Save on Energy Heating and Cooling Program												
New Framewo	23		Save on Energy Home Assistance Program												
New Framewo	24		Save on Energy Audit Funding Program												
New Framewo	etc.		Save on Energy Retrofit Program												

nentation:
gs Results from IESO

Net Verified Annual Peak Demand Savings at the End-User Level (kW)																															Net Verified A
2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040		2011
				69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	56.0	56.0	56.0	56.0	56.0	56.0	22.0	22.0	22.0	22.0	-	-	-	-	-	-		
				163.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	118.0	102.0	102.0	102.0	102.0	102.0	69.0	69.0	69.0	69.0	-	-	-	-	-	-		
				23.0	23.0	23.0	22.0	14.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,685.0	1,495.0	-	-	-	-	-	-		
				21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	-	-	-		
				187.0	187.0	187.0	187.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				6,257.0	6,257.0	6,218.0	6,218.0	6,218.0	6,218.0	6,047.0	6,047.0	5,859.0	5,299.0	3,809.0	3,736.0	2,621.0	2,603.0	2,603.0	1,866.0	308.0	308.0	308.0	308.0	-	-	-	-	-	-		
				487.0	465.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	306.0	132.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	315.0	315.0	315.0	315.0	314.0	314.0	276.0	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				274.0	220.0	200.0	200.0	196.0	175.0	158.0	150.0	138.0	123.0	45.0	21.0	21.0	21.0	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	7.0	7.0	7.0	7.0	6.0	6.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	-	-	-	-	-		
				131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				27.0	27.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				424.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	370.0	369.0	369.0	367.0	367.0	366.0	101.0	101.0	101.0	101.0	-	-	-	-	-	-		
				1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,696.0	1,526.0	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
				592.0	592.0	581.0	581.0	581.0	581.0	553.0	553.0	542.0	450.0	229.0	229.0	110.0	110.0	110.0	92.0	71.0	71.0	71.0	71.0	-	-	-	-	-	-		

nnual Energy Savings at the End-User Level (kWh)

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
			1,027,535.0	1,018,620.0	1,018,620.0	1,018,620.0	1,018,620.0	1,018,620.0	1,018,620.0	1,018,276.0	1,018,276.0	1,018,276.0	897,223.0	892,900.0	892,900.0	891,106.0	891,106.0	890,669.0	346,273.0	346,273.0	346,273.0
			2,194,924.0	2,119,365.0	2,119,365.0	2,119,365.0	2,119,365.0	2,119,365.0	2,119,365.0	2,119,365.0	2,119,365.0	2,119,365.0	1,879,773.0	1,625,033.0	1,625,033.0	1,625,033.0	1,625,033.0	1,625,033.0	1,094,648.0	1,094,648.0	1,094,648.0
			155,424.0	155,424.0	155,424.0	154,902.0	94,825.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,175,791.0	3,006,226.0
			58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0	58,971.0
			875,115.0	875,115.0	875,115.0	875,115.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			51,722,543.0	51,722,543.0	51,599,822.0	51,599,822.0	51,599,822.0	51,599,822.0	50,635,032.0	50,635,032.0	49,277,020.0	45,797,398.0	34,800,889.0	32,466,175.0	17,844,990.0	17,789,612.0	17,789,612.0	12,430,736.0	808,201.0	808,201.0	808,201.0
			2,024,454.0	1,931,260.0	1,339,668.0	1,339,668.0	1,339,668.0	1,339,668.0	1,339,668.0	1,339,668.0	1,339,668.0	1,339,668.0	1,288,435.0	512,252.0	-	-	-	-	-	-	-
			1,437,827.0	1,437,827.0	1,437,827.0	1,437,827.0	1,437,827.0	1,437,827.0	1,437,827.0	1,437,827.0	1,434,849.0	1,434,849.0	1,434,849.0	1,434,849.0	1,426,262.0	1,426,262.0	1,330,511.0	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			1,293,617.0	949,437.0	808,737.0	808,737.0	793,295.0	752,682.0	643,670.0	620,972.0	590,250.0	492,441.0	199,030.0	55,120.0	55,120.0	55,120.0	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			147,287.0	115,538.0	110,988.0	106,438.0	103,950.0	103,950.0	101,695.0	98,746.0	50,947.0	50,839.0	50,075.0	50,075.0	48,541.0	48,541.0	4,848.0	4,848.0	4,848.0	4,848.0	4,848.0
			901,493.0	901,493.0	901,493.0	901,493.0	901,493.0	901,493.0	901,493.0	901,493.0	901,493.0	901,493.0	901,493.0	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			130,073.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			235,240.0	235,240.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6,484,457.0	6,429,030.0	6,429,030.0	6,429,030.0	6,429,030.0	6,429,030.0	6,429,030.0	6,424,967.0	6,424,967.0	6,424,967.0	5,994,848.0	5,961,614.0	5,961,614.0	5,839,430.0	5,839,430.0	5,826,645.0	1,606,139.0	1,606,139.0	1,606,139.0
			3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,220,099.0	3,068,338.0
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			4,388,100.0	4,388,100.0	4,353,851.0	4,353,851.0	4,353,851.0	4,353,851.0	4,182,174.0	4,182,174.0	4,142,538.0	3,581,795.0	2,225,182.0	2,217,083.0	603,928.0	603,928.0	603,928.0	460,858.0	175,878.0	175,878.0	175,878.0

2034	2035	2036	2037	2038	2039	2040
346,273.0	-	-	-	-	-	-
1,094,648.0	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
58,971.0	51,586.0	51,586.0	51,586.0	-	-	-
-	-	-	-	-	-	-
808,201.0	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
4,848.0	4,140.0	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
1,606,139.0	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
175,878.0	-	-	-	-	-	-

Ontario Energy Board

Legend	User Inputs (Green)
	Instructions (Grey)

Table 7-f. 2016 Persisting Savings

Go to Tab 5.

1. LDCs are requested to paste a copy of the 2016 "LDC CDM Program Results Pe

2. Please ensure that verified adjustments to 2016 programs that become available

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
etc.	

2016 LD

rsistence Report" in the space below as it relates to the calculation of LRAMVA.
in future evaluation audits are included in the 2016 form below.

(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)

Supporting Documentation:
C Persistence Savings Results from IESC

Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)		Net Verified Annual Peak Demand Savings at the En				
			2011	2012	2013	2014	2015

d-User Level (kW)

2016	2017	2018	2019	2020	2021	2022	2023	2024

2025	2026	2027	2028	2029	2030	2031	2032	2033

2034	2035	2036	2037	2038	2039	2040		2011
								Net Verifi

ed Annual Energy Savings at the End-User Level (kWh)

2012	2013	2014	2015	2016	2017	2018	2019	2020

2029
2028
2027
2026
2025
2024
2023
2022
2021

2038
2037
2036
2035
2034
2033
2032
2031
2030

2039	2040

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. The quarterly interest rates are used to calculate the carrying charges for LRAMVA. Starting from column I, the principle will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rates from column H to determine the monthly variances on carrying charges for each rate class by year.
2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.

Table 6. Prescribed Interest Rates

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	
2017 Q4	
2018 Q1	
2018 Q2	
2018 Q3	
2018 Q4	
2019 Q1	
2019 Q2	
2019 Q3	
2019 Q4	
2020 Q1	
2020 Q2	
2020 Q3	
2020 Q4	

Check OEB website

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Month	Period	Quarter	Monthly Rate	Residential	GS<50 kW	GS>50 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Jan-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-11	2011	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-11	2011	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-11	2011	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2011				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-12	2011-2012	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-12	2011-2012	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-12	2011-2012	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-12	2011-2012	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2012				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-13	2011-2013	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-13	2011-2013	Q2	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-13	2011-2013	Q3	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-13	2011-2013	Q4	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2013				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Amount Cleared											
Opening Balance for 2014				**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**
Jan-14	2011-2014	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-14	2011-2014	Q1	0.12%	-$10.99	$41.07	$29.40	-$0.53	-$0.33	-$0.02	$1.63	$60.22
Mar-14	2011-2014	Q1	0.12%	-$21.98	$82.14	$58.79	-$1.06	-$0.67	-$0.03	$3.26	$120.45
Apr-14	2011-2014	Q2	0.12%	-$32.97	$123.21	$88.19	-$1.59	-$1.00	-$0.05	$4.89	$180.67
May-14	2011-2014	Q2	0.12%	-$43.95	$164.28	$117.58	-$2.13	-$1.34	-$0.06	$6.52	$240.90
Jun-14	2011-2014	Q2	0.12%	-$54.94	$205.35	$146.98	-$2.66	-$1.67	-$0.08	$8.15	$301.12
Jul-14	2011-2014	Q3	0.12%	-$65.93	$246.42	$176.37	-$3.19	-$2.01	-$0.10	$9.78	$361.35
Aug-14	2011-2014	Q3	0.12%	-$76.92	$287.49	$205.77	-$3.72	-$2.34	-$0.11	$11.41	$421.57
Sep-14	2011-2014	Q3	0.12%	-$87.91	$328.56	$235.17	-$4.25	-$2.67	-$0.13	$13.04	$481.79
Oct-14	2011-2014	Q4	0.12%	-$98.90	$369.62	$264.56	-$4.78	-$3.01	-$0.15	$14.66	$542.02
Nov-14	2011-2014	Q4	0.12%	-$109.88	$410.69	$293.96	-$5.31	-$3.34	-$0.16	$16.29	$602.24
Dec-14	2011-2014	Q4	0.12%	-$120.87	$451.76	$323.35	-$5.84	-$3.68	-$0.18	$17.92	$662.47
Total for 2014				**-$725.24**	**$2,710.58**	**$1,940.12**	**-$35.06**	**-$22.07**	**-$1.07**	**$107.54**	**$3,974.80**
Amount Cleared											
Opening Balance for 2015				**-$725.24**	**$2,710.58**	**$1,940.12**	**-$35.06**	**-$22.07**	**-$1.07**	**$107.54**	**$3,974.80**
Jan-15	2011-2015	Q1	0.12%	-$131.86	$492.83	$352.75	-$6.38	-$4.01	-$0.19	$19.55	$722.69
Feb-15	2011-2015	Q1	0.12%	-$120.33	$544.88	$418.45	-$6.91	-$4.35	-$0.21	$26.45	$857.99
Mar-15	2011-2015	Q1	0.12%	-$108.80	$596.92	$484.16	-$7.44	-$4.68	-$0.23	$33.34	$993.28
Apr-15	2011-2015	Q2	0.09%	-$72.78	$485.62	$411.46	-$5.97	-$3.75	-$0.18	$30.11	$844.51
May-15	2011-2015	Q2	0.09%	-$64.15	$524.57	$460.63	-$6.36	-$4.00	-$0.19	$35.27	$945.76
Jun-15	2011-2015	Q2	0.09%	-$55.52	$563.51	$509.80	-$6.76	-$4.25	-$0.21	$40.43	$1,047.00
Jul-15	2011-2015	Q3	0.09%	-$46.89	$602.46	$558.97	-$7.16	-$4.50	-$0.22	$45.59	$1,148.24
Aug-15	2011-2015	Q3	0.09%	-$38.26	$641.40	$608.13	-$7.56	-$4.75	-$0.23	$50.75	$1,249.48
Sep-15	2011-2015	Q3	0.09%	-$29.63	$680.35	$657.30	-$7.96	-$5.00	-$0.24	$55.91	$1,350.72
Oct-15	2011-2015	Q4	0.09%	-$21.00	$719.29	$706.47	-$8.36	-$5.25	-$0.25	$61.07	$1,451.96
Nov-15	2011-2015	Q4	0.09%	-$12.37	$758.24	$755.63	-$8.75	-$5.50	-$0.27	$66.23	$1,553.21
Dec-15	2011-2015	Q4	0.09%	-$3.74	$797.18	$804.80	-$9.15	-$5.75	-$0.28	$71.39	$1,654.45
Total for 2015				**-$1,430.56**	**$10,117.84**	**$8,668.68**	**-$123.82**	**-$77.89**	**-$3.77**	**$643.63**	**$17,794.09**
Amount Cleared											
Opening Balance for 2016				**-$1,430.56**	**$10,117.84**	**$8,668.68**	**-$123.82**	**-$77.89**	**-$3.77**	**$643.63**	**$17,794.09**
Jan-16	2011-2016	Q1	0.09%	$4.89	$836.13	$853.97	-$9.55	-$6.00	-$0.29	$76.55	$1,755.69
Feb-16	2011-2016	Q1	0.09%	$10.61	$874.21	$903.84	-$9.96	-$6.26	-$0.30	$75.09	$1,847.23
Mar-16	2011-2016	Q1	0.09%	$16.33	$912.29	$953.72	-$10.37	-$6.52	-$0.32	$73.64	$1,938.77
Apr-16	2011-2016	Q2	0.09%	$22.05	$950.37	$1,003.60	-$10.78	-$6.78	-$0.33	$72.19	$2,030.30
May-16	2011-2016	Q2	0.09%	$27.77	$988.45	$1,053.47	-$11.20	-$7.04	-$0.34	$70.73	$2,121.84
Jun-16	2011-2016	Q2	0.09%	$33.49	$1,026.53	$1,103.35	-$11.61	-$7.30	-$0.36	$69.28	$2,213.38
Jul-16	2011-2016	Q3	0.09%	$39.21	$1,064.60	$1,153.22	-$12.02	-$7.55	-$0.37	$67.82	$2,304.92
Aug-16	2011-2016	Q3	0.09%	$44.93	$1,102.68	$1,203.10	-$12.43	-$7.81	-$0.38	$66.37	$2,396.45
Sep-16	2011-2016	Q3	0.09%	$50.64	$1,140.76	$1,252.98	-$12.84	-$8.07	-$0.40	$64.91	$2,487.99
Oct-16	2011-2016	Q4	0.09%	$56.36	$1,178.84	$1,302.85	-$13.25	-$8.33	-$0.41	$63.46	$2,579.53
Nov-16	2011-2016	Q4	0.09%	$62.08	$1,216.92	$1,352.73	-$13.66	-$8.59	-$0.42	$62.00	$2,671.07
Dec-16	2011-2016	Q4	0.09%	$67.80	$1,255.00	$1,402.60	-$14.07	-$8.84	-$0.44	$60.55	$2,762.60
Total for 2016				**-$994.40**	**$22,664.62**	**$22,208.11**	**-$265.56**	**-$166.99**	**-$8.14**	**$1,466.22**	**$44,903.85**
Amount Cleared											
Opening Balance for 2017				**-$994.40**	**$22,664.62**	**$22,208.11**	**-$265.56**	**-$166.99**	**-$8.14**	**$1,466.22**	**$44,903.85**
Jan-17	2011-2017	Q1	0.09%	$73.52	$1,293.08	$1,452.48	-$14.48	-$9.10	-$0.45	$59.09	$2,854.14
Feb-17	2011-2017	Q1	0.09%	$125.81	$1,338.57	$1,555.06	-$14.48	-$9.10	-$0.45	$59.09	$3,054.50
Mar-17	2011-2017	Q1	0.09%	$178.10	$1,384.06	$1,657.63	-$14.48	-$9.10	-$0.45	$59.09	$3,254.86
Apr-17	2011-2017	Q2	0.09%	$230.39	$1,429.55	$1,760.21	-$14.48	-$9.10	-$0.45	$59.09	$3,455.21
May-17	2011-2017	Q2	0.09%	$282.68	$1,475.04	$1,862.79	-$14.48	-$9.10	-$0.45	$59.09	$3,655.57
Jun-17	2011-2017	Q2	0.09%	$334.97	$1,520.53	$1,965.37	-$14.48	-$9.10	-$0.45	$59.09	$3,855.93
Jul-17	2011-2017	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-17	2011-2017	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-17	2011-2017	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-17	2011-2017	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-17	2011-2017	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-17	2011-2017	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2017				**$231.06**	**$31,105.46**	**$32,461.64**	**-$352.46**	**-$221.61**	**-$10.83**	**$1,820.79**	**$65,034.06**
Amount Cleared											
Opening Balance for 2018				**$231.06**	**$31,105.46**	**$32,461.64**	**-$352.46**	**-$221.61**	**-$10.83**	**$1,820.79**	**$65,034.06**
Jan-18	2011-2018	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-18	2011-2018	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-18	2011-2018	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-18	2011-2018	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-18	2011-2018	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-18	2011-2018	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-18	2011-2018	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-18	2011-2018	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-18	2011-2018	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-18	2011-2018	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-18	2011-2018	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Dec-18	2011-2018	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2018				**$231.06**	**$31,105.46**	**$32,461.64**	**-$352.46**	**-$221.61**	**-$10.83**	**$1,820.79**	**$65,034.06**
Amount Cleared											
Opening Balance for 2019				**$231.06**	**$31,105.46**	**$32,461.64**	**-$352.46**	**-$221.61**	**-$10.83**	**$1,820.79**	**$65,034.06**
Jan-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-19	2011-2019	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-19	2011-2019	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-19	2011-2019	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-19	2011-2019	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2019				**$231.06**	**$31,105.46**	**$32,461.64**	**-$352.46**	**-$221.61**	**-$10.83**	**$1,820.79**	**$65,034.06**
Amount Cleared											
Opening Balance for 2020				**$231.06**	**$31,105.46**	**$32,461.64**	**-$352.46**	**-$221.61**	**-$10.83**	**$1,820.79**	**$65,034.06**
Jan-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Mar-20	2011-2020	Q1	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apr-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
May-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jun-20	2011-2020	Q2	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Jul-20	2011-2020	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Aug-20	2011-2020	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Sep-20	2011-2020	Q3	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Oct-20	2011-2020	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Nov-20	2011-2020	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Dec-20	2011-2020	Q4	0.00%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total for 2020				**$231.06**	**$31,105.46**	**$32,461.64**	**-$352.46**	**-$221.61**	**-$10.83**	**$1,820.79**	**$65,034.06**
Amount Cleared											

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Ontario Energy Board

LRAMVA Work Form:
Street Light Adjustment

NOTE:
This tab calculates an adjustment for the SL LED projects. This amount is incremental to the LRAMVA amounts accounted for in the LRAMVA Work Form (tabs 4. 2011-2014 LRAM and 5. 2015-2020 LRAM).

Table 8-1: Impact on Revenues - 2014 (according to billing dates)

Street Lights Rates	2014	2015
	$6.5692	$6.6546

Year	NTG Ratio
2015	76%

2014	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
LED Replacements:													
# of LED replacements			4,494			1,509	1,745	1,108					**8,856**
Running # of LED replacements			4,494	4,494	4,494	6,003	7,748	8,856	8,856	8,856	8,856	8,856	**8,856**
Load Reduction:													
kW Load Removed			690.276			232.844	256.833	259.377					**1,439.330**
Replacement kW Load			260.514			87.554	99.895	116.792					**564.755**
Reduction in kW demand	-	-	429.762	-	-	145.290	156.938	142.585	-	-	-	-	**874.575**
Reduction in Monthly kW demand			429.762	429.762	429.762	575.052	731.990	874.575	874.575	874.575	874.575	874.575	**5,290.939**
Revenue Reduction			**$ 2,143.34**	**$ 2,143.34**	**$ 2,143.34**	**$ 2,867.93**	**$ 3,650.63**	**$ 4,361.73**	**$ 4,361.73**	**$ 4,361.73**	**$ 4,361.73**	**$ 4,361.73**	**$ 34,757.24**
Accum. Revenue Reduction (2014 YTD)			$ 2,143.34	$ 4,286.67	$ 6,430.01	$ 9,297.94	$ 12,948.57	$ 17,310.30	$ 21,672.03	$ 26,033.77	$ 30,395.50	$ 34,757.24	**$ 34,757.24**
Carrying Charges:													
Principal balance	$ -	$ -	$ -	$ 2,143.34	$ 4,286.67	$ 6,430.01	$ 9,297.94	$ 12,948.57	$ 17,310.30	$ 21,672.03	$ 26,033.77	$ 30,395.50	
Interest Rate	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	1.47%	
Days	31	28	31	30	31	30	31	31	30	31	30	31	**365**
Interest	$ -	$ -	$ -	$ 2.59	$ 5.35	$ 7.77	$ 11.61	$ 16.17	$ 20.91	$ 27.06	$ 31.45	$ 37.95	**$ 160.86**
Accumulated interest		$ -	$ -	$ 2.59	$ 7.94	$ 15.71	$ 27.32	$ 43.48	$ 64.40	$ 91.46	$ 122.91	$ 160.86	

Table 8-2: Impact on Revenues - 2015 (according to billing dates)

2015	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
LED Replacements:													
# of LED replacements				358	448	725		727		11,423			**13,681**
Running # of LED replacements	8,856	8,856	8,856	9,214	9,662	10,387	10,387	11,114	11,114	22,537	22,537	22,537	**22,537**
Load Reduction:													
kW Load Removed				107.400	134.400	217.500		215.350		2,042.693			**2,717.343**
Replacement kW Load				40.288	61.737	104.481		82.432		721.700			**1,010.638**
Reduction in kW demand	-	-	-	67.112	72.663	113.019	-	132.918	-	1,320.993	-	-	**1,706.705**
Reduction in Monthly kW demand	874.575	874.575	874.575	941.687	1,014.350	1,127.369	1,127.369	1,260.287	1,260.287	2,581.280	2,581.280	2,581.280	**12,981.299**
Revenue Reduction	**$ 4,418.44**	**$ 4,418.44**	**$ 4,418.44**	**$ 4,757.49**	**$ 5,124.59**	**$ 5,695.58**	**$ 5,695.58**	**$ 6,367.09**	**$ 6,367.09**	**$ 13,040.87**	**$ 13,040.87**	**$ 13,040.87**	**$ 86,385.35**
Accum. Revenue Reduction (2014-2015)	$ 39,175.67	$ 43,594.11	$ 48,012.55	$ 52,770.04	$ 57,894.63	$ 63,590.21	$ 69,285.78	$ 75,652.88	$ 82,019.97	$ 95,060.84	$ 108,101.71	$ 121,142.59	**$ 121,142.59**
Carrying Charges:													
Principal balance	$ 34,757.24	$ 39,175.67	$ 43,594.11	$ 48,012.55	$ 52,770.04	$ 57,894.63	$ 63,590.21	$ 69,285.78	$ 75,652.88	$ 82,019.97	$ 95,060.84	$ 108,101.71	
Interest Rate	1.47%	1.47%	1.47%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	1.10%	
Days	31	28	31	30	31	30	31	31	30	31	30	31	**365**
Interest	$ 43.39	$ 44.18	$ 54.43	$ 43.41	$ 49.30	$ 52.34	$ 59.41	$ 64.73	$ 68.40	$ 76.63	$ 85.95	$ 100.99	**$ 743.15**
Accumulated interest	$ 204.25	$ 248.43	$ 302.86	$ 346.27	$ 395.57	$ 447.91	$ 507.32	$ 572.05	$ 640.45	$ 717.07	$ 803.02	$ 904.01	

Table 8-3: LRAMVA - Street Light LED Adjustment SUMMARY (2014-2015)

	2014	2015	Total
LED Replacements in year	8,856	13,681	22,537
Reduction in kW demand	874.58	1,706.71	2,581.28
Reduction in billed kW	5,290.94	12,981.30	18,272.24
Revenue Reduction	$ 34,757.24	$ 86,385.35	$ 121,142.59
Carrying Charges	$ 160.86	$ 743.15	$ 904.01
Adjustment to Street Lighting LRAMVA	**$ 34,918.10**	**$ 87,128.51**	**$ 122,046.60**

Ontario Energy Board

Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 2.0 (2017)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	**Tables 1-a and 1-b** provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	**Tables X-1 and X-2** include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	**Tables 2-a, 2-b and 2-c** include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	**Tables 3-a and 3-b** include the distribution rates that are used to calculate lost revenues.
4. 2011-2014 LRAM	**Tables 4-a, 4-b, 4-c and 4-d** include the template 2011-2014 LRAMVA work forms.
5. 2015-2020 LRAM	**Tables 5-a, 5-b, 5-c and 5-d** include the template 2015-2020 LRAMVA work forms.
6. Carrying Charges	**Table 6-b** includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Data	**Tables 7-a to 7-j** should be populated with CDM savings persistence data provided to LDCs from the IESO.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.

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LRAMVA Work Form: Inputs-Outputs Schematic

Version 2.0 (2017)

General Note on the LRAMVA Model

The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2017, 2018, 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA work form.

The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA ($) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Legend	Drop Down List (Blue)

Important Checklist Items

Yes	Highlighted changes to this work form, if any, and provided rationale for the change in Tab 1-a
Yes	Included any necessary assumptions in the "Notes" section of the work form tables and summarized important assumptions in Tab 1-a
Yes	Included the basis and source of the LRAMVA threshold to determine forecast CDM savings in Tab 2
Yes	Included initiative-level persistence savings information as provided by the IESO directly in this work form (pasted in Tabs 7-a, 7-b, etc.)
Yes	Applied IESO verified savings adjustments back to year of program implementation in Tabs 4 and 5
Yes	Included documentation or data substantiating program savings that are included in the claim, but not provided in the IESO's verified results reports, in a new tab in this work form (streetlighting projects, etc.)
	Included documentation or analysis of how rate class allocations were determined each year in a new tab in this work form

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs	Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	LDC	
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c		
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets	
LRAMVA ($) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			Tables 1-a and 1-b
+ Carrying Charges ($) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6		Table 6-a
Total LRAMVA ($) by Rate Class	Tab "1. LRAMVA Summary"			

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LRAMVA Work Form: Summary Tab

Version 2.0 (2017)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Auto Populated Cells (White)
	Instructions (Grey)

LDC Name Alectra Utilities - Legacy Enersource Corporation

Application Details

Please fill in the requested information: a) the amounts approved in the previous LRAMVA application, b) details on the current application, and c) documentation of changes if applicable.

A. Previous LRAMVA Application

Previous LRAMVA Application (EB#)	EB-2013-0024
Application of Previous LRAMVA Claim	2013 LRAM Application
Period of LRAMVA Claimed in Previous Application	2005-2010
Amount of LRAMVA Claimed in Previous Application	$ 1,753,174.00

B. Current LRAMVA Application

Current LRAMVA Application (EB#)		EB-20XX-XXXX
Application of Current LRAMVA Claim		2018 COS/IRM Application
Period of New LRAMVA in this Application		2011-2015
Actual Lost Revenues ($)	A	$ 7,200,687
Forecast Lost Revenues ($)	B	$ 5,225,701
Carrying Charges ($)	C	$ 102,149
LRAMVA ($) for Account 1568	A-B+C	$ 2,077,134

C. Documentation of Changes

Original Amount	
Amount for Final Disposition	

Table 1-a. LRAMVA Totals by Rate Class

Please update the customer rate classes applicable to the LDC in Table 1-a below. This will update all tables throughout the workform. The LRAMVA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or IRM Rate Generator Model. If the LDC has more than 14 customer classes, LDCs are required to add rows to Table 1-a and update all tables and formulas in the work form accordingly. Please also ensure that the principle amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMVA claim.

Customer Class	Billing Unit	Principle ($)	Carrying Charges ($)	Total LRAMVA ($)
Residential	kWh	-$325,347	-$10,428	-$335,775
GS<50 kW	kWh	$361,636	$26,002	$387,638
General Service 50 to 499 kW	kW	$2,626,747	$117,249	$2,743,996
General Service 500 to 4,999 kW	kW	$614,678	$26,939	$641,618
Large Use	kW	$149,252	$5,601	$154,853
Street Lighting	kW	-$1,451,981	-$63,214	-$1,515,195
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
		$0	$0	$0
Total		**$1,974,985**	**$102,149**	**$2,077,134**

Table 1-b. Annual LRAMVA Breakdown by Year and Rate Class

In column C of Table 1-b below, please indicate with a 'check mark' the years in which LRAMVA has been claimed. This is to ensure that there are no amounts claimed retroactively. If you have inserted a check-mark for a particular year, please delete the amounts associated with actual and forecast lost revenues for all rate classes for that year, up to and including the total. Any prior years that a distributor has claimed lost revenues should not be included in the current LRAMVA disposition, with the exception of the case noted below.

If LDCs are seeking to claim true-up amounts that were previously approved by the OEB, please note that the "Amount Cleared" rows are applicable to the LDC and should be filled out. This may relate to claiming the difference in LRAM approved before the May 19, 2016 Peak Demand Consultation, and the lost revenues that would have been incurred after that consultation, as approved by the OEB. If this is the case, reference to the decision must be noted in the rate application. If this is not the case, LDCs are requested to leave those rows blank.

Depending on the period of LRAMVA to be claimed in the current application, LDCs are expected to adjust the applicable totals for carrying charges in row 83 of this table and the years included in the Total LRAMVA balance in row 84, as appropriate.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting										Total
		kWh	kWh	kW	kW	kW	kW										
2011 Actuals	☐	$67,388.67	$156,919.97	$162,769.29	$37,080.30	$1,071.36	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$425,229.59
2011 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																	
2012 Actuals	☐	$112,890.80	$256,183.56	$349,503.20	$78,877.14	$6,546.59	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$804,001.28
2012 Forecast		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Amount Cleared																	
2013 Actuals	☐	$181,735.73	$331,075.18	$522,334.84	$133,139.14	$64,721.02	$31,329.04	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,264,334.93
2013 Forecast		($469,542.25)	($454,471.87)	($80,705.47)	($34,806.42)	($41,095.56)	($640,711.80)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($1,721,333.37)
Amount Cleared																	
2014 Actuals	☐	$306,458.04	$435,258.12	$757,547.30	$180,605.78	$81,992.23	$158,475.74	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,920,337.21
2014 Forecast		($469,542.25)	($462,375.73)	($81,960.86)	($35,287.25)	($41,849.45)	($647,781.82)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($1,738,797.35)
Amount Cleared																	
2015 Actuals	☐	$421,974.90	$569,326.79	$1,080,407.32	$290,868.10	$120,322.22	$303,884.22	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,786,783.56
2015 Forecast		($476,710.84)	($470,279.59)	($83,148.75)	($35,798.72)	($42,456.88)	($657,175.97)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	($1,765,570.75)
Amount Cleared																	
Carrying Charges		($10,428.03)	$26,001.61	$117,248.94	$26,939.47	$5,601.36	($63,214.19)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$102,149.17
Total LRAMVA Balance		**-$335,775**	**$387,638**	**$2,743,996**	**$641,618**	**$154,853**	**-$1,515,195**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$2,077,134**

Note: LDC to make note of assumptions included above, if any

Table 1-c. Breakdown of Incremental and Persisting Lost Revenues Amounts (Dollars)

LDCs are requested to clear the cells in the table to show only the amounts related to this LRAMVA application. This table is a check on the LRAMVA disposition providing a breakdown of actual incremental and persisting savings by year.

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
2011	$ 425,229.59	$ 425,700.90	$ 439,007.15	$ 431,393.43	$ 433,232.20	$ -	$ -	$ -	$ -	$ -	$ 2,154,563.26
2012		$ 378,300.38	$ 389,015.93	$ 389,571.85	$ 380,399.59	$ -	$ -	$ -	$ -	$ -	$ 1,537,287.75
2013			$ 404,982.82	$ 405,063.91	$ 404,791.58	$ -	$ -	$ -	$ -	$ -	$ 1,214,838.31
2014				$ 535,832.28	$ 529,404.69	$ -	$ -	$ -	$ -	$ -	$ 1,065,236.97
2015					$ 735,071.27	$ -	$ -	$ -	$ -	$ -	$ 735,071.27
2016						$ -	$ -	$ -	$ -	$ -	$ -
2017							$ -	$ -	$ -	$ -	$ -
2018								$ -	$ -	$ -	$ -
2019									$ -	$ -	$ -
2020										$ -	$ -
Actual Lost Revenues	$ 425,229.59	$ 804,001.28	$ 1,233,005.90	$ 1,761,861.47	$ 2,482,899.33	$ -	$ -	$ -	$ -	$ -	$ 6,706,997.57
Forecast Lost Revenues	$ -	$ -	$ 1,721,333.37	$ 1,738,797.35	$ 1,765,570.75	$ -	$ -	$ -	$ -	$ -	$ 5,225,701.47
Carrying Charges	$ 2,864.98	$ 14,532.82	$ 29,523.48	$ 42,098.43	$ 58,699.49	$ 80,424.33	$ 102,149.17	$ 102,149.17	$ 102,149.17	$ 102,149.17	$ 636,740.20
Total	$ 428,094.57	$ 818,534.10	-$ 458,803.99	$ 65,162.54	$ 776,028.08	$ 80,424.33	$ 102,149.17	$ 102,149.17	$ 102,149.17	$ 102,149.17	$ 2,118,036.31

Note: LDC to make note of assumptions included above, if any

Ontario Energy Board

LRAMVA Work Form: Summary of Changes

Version 2.0 (2017)

Legend	
	User Inputs (Green)
	Drop Down List (Blue)
	Instructions (Grey)

Table X-1. Changes in Assumptions from Generic Inputs in Work Form

Please document any changes in assumptions made to the work form that affect the calculation of LRAMVA. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between savings and adjustments; claiming historical savings persistence beyond a re-basing year; inclusion of additional adjustments affecting distribution rates; use of a different LRAMVA threshold; etc. All important changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	1. LRAMVA Summary	I59,I62,I65	2013-2015 Actual Street Lighting (SL) Amount	The SL amount is calculated using the net Peak Demand kW reduction on tab "8. Street Lighting" and m
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
etc.				

Table X-2. Updates to LRAMVA Disposition

LDCs are requested to document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
etc.				

Ontario Energy Board

LRAMVA Work Form: Forecast Lost Revenues

Version 2.0 (2017)

Legend

User Inputs (Green)	
Drop Down List (Blue)	
Auto Populated Cells (White)	
Instructions (Grey)	

Table 2-a. LRAMVA Threshold

2013

Please provide the LRAMVA threshold approved in the cost of service (COS) application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting								
		kWh	kWh	kW	kW	kW	kW								
kWh	119,146,362	35,842,920	39,519,293	6,718,613	7,166,687	8,983,655	20,915,195								
kW	111,837			19,284	16,135	15,417	61,001								
Summary		35,842,920	39,519,293	19,284	16,135	15,417	61,001	0	0	0	0	0	0	0	0

Basis of Threshold	0.5* 201X + 20XX + 0.5 * 20XX (if available)
Source of Threshold	EB-2012-0033, P53

Table 2-b. LRAMVA Threshold

2013

Please provide the LRAMVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-I. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting								
		kWh	kWh	kW	kW	kW	kW								
kWh	119,146,362	35,842,920	39,519,293	6,718,613	7,166,687	8,983,655	20,915,195								
kW	111,837			19,284	16,135	15,417	61,001								
Summary		35,842,920	39,519,293	19,284	16,135	15,417	61,001	0	0	0	0	0	0	0	0

Basis of Threshold	0.5* 201X + 20XX + 0.5 * 20XX (if available)
Source of Threshold	EB-2012-0033, P53

Table 2-c. Inputs for LRAMVA Thresholds

Please complete Table 2-c below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option, although it is generally expected that 2 COS applications would have been approved during the 2011 to 2020 period. The LRAMVA threshold values in Table 2-c will be auto-populated in Tabs 4 and 5 of this work form.

Year	LRAMVA Threshold (select year)	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting								
		kWh	kWh	kW	kW	kW	kW								
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	2013	35,842,920	39,519,293	19,284	16,135	15,417	61,001	0	0	0	0	0	0	0	0
2014	2013	35,842,920	39,519,293	19,284	16,135	15,417	61,001	0	0	0	0	0	0	0	0
2015	2013	35,842,920	39,519,293	19,284	16,135	15,417	61,001	0	0	0	0	0	0	0	0
2016		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above, if any

Ontario Energy Board

LRAMVA Work Form: Distribution Rates

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Tables

Table 3
Table 3-a.

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

The rate classes in column B of Table 3 below are auto-populated from the customer class inputs in Table 1-a of the Summary Tab. Please provide the distribution rates by rate year and applicable adjustments per rate class starting from column D of Table 3 below. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months from January to the start of the LDC's rate year, entered in row 16 of Table 3 (referred to as period 1). If rates are already on a January 1 to December 31 timeline, please enter 0 in row 16.

	Billing Unit	EB-2009-0193; May 1, 2010 to April 30, 2011	EB-2010-0078; May 1, 2011 to April 30, 2012	EB-2011-0100; May 1, 2012 to January 31, 2013	EB-2012-0033; February 1, 2013 to December 31, 2013	EB-2013-0124; January 1, 2014 to December 31, 2014	EB-2014-0068; January 1, 2015 to December 31, 2015	update	update	update	update	update	update
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months)		*4*	*4*	*4*	*1*	*0*	*0*						
Period 2 (# months)		*8*	*8*	*8*	*11*	*12*	*12*	*12*	*12*	*12*	*12*	*12*	*12*
Residential	kWh	$ 0.0118	$ 0.0118	$ 0.0119	$ 0.0129	$ 0.0131	$ 0.0133						
Rate rider for tax sharing		-$ 0.0002	-$ 0.0003	-$ 0.0004									
Rate rider for foregone revenue					$ 0.0003								
Changes in Transformer Allowance													
Adjusted rate		$ 0.0116	$ 0.0115	$ 0.0115	$ 0.0132	$ 0.0131	$ 0.0133	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 0.0115**	**$ 0.0115**	**$ 0.0131**	**$ 0.0131**	**$ 0.0133**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
GS<50 kW	kWh	$ 0.0115	$ 0.0115	$ 0.0116	$ 0.0115	$ 0.0117	$ 0.0119						
Rate rider for tax sharing		-$ 0.0001	-$ 0.0003	-$ 0.0003									
Rate rider for foregone revenue													
Changes in Transformer Allowance													
Adjusted rate		$ 0.0114	$ 0.0112	$ 0.0113	$ 0.0115	$ 0.0117	$ 0.0119	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 0.0113**	**$ 0.0113**	**$ 0.0115**	**$ 0.0117**	**$ 0.0119**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
General Service 50 to 499 kW	kW	$ 4.1602	$ 4.1677	$ 4.2044	$ 4.1853	$ 4.2502	$ 4.3118						
Rate rider for tax sharing		-$ 0.0296	-$ 0.0516	-$ 0.0626									
Rate rider for foregone revenue					$ 0.0037								
Changes in Transformer Allowance													
Adjusted rate		$ 4.1306	$ 4.1161	$ 4.1418	$ 4.1890	$ 4.2502	$ 4.3118	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 4.1209**	**$ 4.1332**	**$ 4.1851**	**$ 4.2502**	**$ 4.3118**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
General Service 500 to 4,999 kW	kW	$ 2.0761	$ 2.0798	$ 2.0981	$ 2.1536	$ 2.1870	$ 2.2187						
Rate rider for tax sharing		-$ 0.0234	-$ 0.0408	-$ 0.0494									
Rate rider for foregone revenue					$ 0.0135								
Changes in Transformer Allowance													
Adjusted rate		$ 2.0527	$ 2.0390	$ 2.0487	$ 2.1671	$ 2.1870	$ 2.2187	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 2.0436**	**$ 2.0455**	**$ 2.1572**	**$ 2.1870**	**$ 2.2187**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Large Use	kW	$ 2.8918	$ 2.8970	$ 2.9225	$ 2.6731	$ 2.7145	$ 2.7539						
Rate rider for tax sharing		-$ 0.0238	-$ 0.0414	-$ 0.0502									
Rate rider for foregone revenue					-$ 0.0263								
Changes in Transformer Allowance													
Adjusted rate		$ 2.8680	$ 2.8556	$ 2.8723	$ 2.6468	$ 2.7145	$ 2.7539	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 2.8597**	**$ 2.8667**	**$ 2.6656**	**$ 2.7145**	**$ 2.7539**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Street Lighting	kW	$ 10.1509	$ 10.1692	$ 10.2587	$ 10.4571	$ 10.6192	$ 10.7732						
Rate rider for tax sharing		-$ 0.1068	-$ 0.1860	-$ 0.2253									
Rate rider for foregone revenue					$ 0.0889								
Changes in Transformer Allowance													
Adjusted rate		$ 10.0441	$ 9.9832	$ 10.0334	$ 10.5460	$ 10.6192	$ 10.7732	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ 10.0035**	**$ 10.0167**	**$ 10.5033**	**$ 10.6192**	**$ 10.7732**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
0													
Adjusted rate		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Calendar year equivalent			**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	

Note: LDC to make note of assumptions affecting the distribution rates above, if any

Table 3-a. Distribution Rates by Rate Class

Table 3-a below pulls the average distribution rates from Table 3 above. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used by clearing the rates for year(s) that are not part of the LRAMVA claim. The distribution rates that remain in Table 3-a will be carried over to Tabs 4 and 5 of the work form to calculate lost revenues.

Year	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting								
	kWh	kWh	kW	kW	kW	kW								
2011	$0.0115	$0.0113	$4.1209	$2.0436	$2.8597	$10.0035	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2012	$0.0115	$0.0113	$4.1332	$2.0455	$2.8667	$10.0167	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2013	$0.0131	$0.0115	$4.1851	$2.1572	$2.6656	$10.5033	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2014	$0.0131	$0.0117	$4.2502	$2.1870	$2.7145	$10.6192	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2015	$0.0133	$0.0119	$4.3118	$2.2187	$2.7539	$10.7732	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000
2016	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000	$0.0000

Note: LDC to make note of assumptions affecting the distribution rates above, if any

Ontario Energy Board

LRAMVA Work Form:
2011 - 2014 Lost Revenues Work Form

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2011-2014 period. Please input or manually link the savings, adjustments and program savings persistence in these tables from the LDC's Persistence Reports provided by the IESO (which are pasted following Tab 7. Persistence Data, tabs "7-a. 2011, 7-b. 2012, ... 7-j. 2020") to complete the tables below.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments can be claimed as past approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless suported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the change.

4. LDC are requested to input the applicable rate class allocation percentages indicating the customer's share of consumption to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for programs and its savings adjustments. If a different allocation is proposed for savings adjustments, please highlight the change and provide rationale in Tab 1-a. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1. LDCs would need to manually update the tables and formulas below if more rate classes are needed.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. LDCs are requested to provide assumptions about the years that persistence is captured in the load forecast calculation in the "Notes" section below each table. If this is not the case, the LDC is requested to clearly articulate the rationale for including the persistence of future savings beyond the re-basing year in Tab 1-a.

Tables

Table 4-a. 2011 Lost Revenues Work Form Go to Persistence Report

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA									Total
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting						
	Consumer Program																							kWh	kWh	kW	kW	kW	kW						
1	Appliance Retirement	Verified	812,064	812,064	812,064	811,350	618,340	-		-				110	110	110	109	81	-	-	-			100.00%										100%
	Adjustment to 2011 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Appliance Exchange	Verified	11,343	11,343	11,343	5,414	-	-		-				10	10	10	3	-	-	-	-			100.00%										100%
	Adjustment to 2011 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	HVAC Incentives	Verified	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070		1,995	1,995	1,995	1,995	1,995	1,995	1,995	1,995	1,995	1,995	100.00%										100%
	Adjustment to 2011 savings	True-up	-592,333	-592,333	-592,333	-592,333	-592,333	-592,333	-592,333	-592,333	-592,333	-592,333		-327	-327	-327	-327	-327	-327	-327	-327	-327	-327	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	Conservation Instant Coupon Booklet	Verified	763,430	763,430	763,430	763,430	702,240	635,393	498,237	495,051	623,089	238,796		47	47	47	47	44	41	35	34	40	23	100.00%										100%
	Adjustment to 2011 savings	True-up	10,824	10,824	10,824	10,824	10,824	9,889	6,067	6,059	6,059	2,146		1	1	1	1	1	1	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Bi-Annual Retailer Event	Verified	1,153,895	1,153,895	1,153,895	1,153,895	1,054,575	946,072	713,278	710,676	918,499	294,738		66	66	66	66	61	56	46	45	55	26	100.00%										100%
	Adjustment to 2011 savings	True-up	85,731	85,731	85,731	85,731	85,731	77,904	42,060	42,051	42,051	9,277		4	4	4	4	4	4	2	2	2	1	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6	Retailer Co-op	Verified	87	87	87	87	87	87	49	49	49	12			0	0	0	0	0	0	0	0	0	0	100.00%										100%
	Adjustment to 2011 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Residential Demand Response	Verified	773											298					-	-	-	-		100.00%										100%
	Adjustment to 2011 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Residential Demand Response (IHD)	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	Residential New Construction	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Business Program																																	
10	Retrofit	Verified	12,075,272	12,075,272	12,075,272	12,075,272	12,075,272	12,075,272	12,075,272	12,075,272	9,675,568	9,675,568	12	2,236	2,236	2,236	2,236	2,236	2,236	2,236	2,236	1,733	1,733		19.00%	63.00%	26.00%	1.00%						109%
	Adjustment to 2011 savings	True-up	1,702,657	1,702,657	1,702,657	1,702,657	1,702,657	1,530,308	1,276,471	756,134	726,513	726,513	12	464	464	464	464	464	464	464	419	348	182	175	175	0.00%	19.00%	63.00%	26.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11	Direct Install Lighting	Verified	8,483,296	8,481,220	8,234,295	7,110,797	7,110,797	7,065,244	1,115,244	1,109,301	1,109,301	1,109,301	12	3,359	3,359	3,274	2,887	2,887	2,887	415	407	407	407		100.00%										100%
	Adjustment to 2011 savings	True-up	124,183	124,183	123,614	103,162	103,162	102,817	11,875	11,875	11,875	11,875	12	53	53	53	44	44	44	4	4	4	4		0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Building Commissioning	Verified											3																					0%
	Adjustment to 2011 savings	True-up											3												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	New Construction	Verified											12																					0%
	Adjustment to 2011 savings	True-up											12												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14	Energy Audit	Verified											12													11.00%	22.00%	67.00%							100%
	Adjustment to 2011 savings	True-up	237,585	237,585	237,585	237,585	226,586	0	0	0	0	0	12	49	49	49	49	47	0	0	0	0	0		0.00%	11.00%	22.00%	67.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15	Small Commercial Demand Response	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Small Commercial Demand Response (IHD)	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	Demand Response 3	Verified	70,271											1,800												50.00%	50.00%							100%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																	
18	Process & System Upgrades	Verified											12																					0%
	Adjustment to 2011 savings	True-up											12												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Monitoring & Targeting	Verified											12																					0%
	Adjustment to 2011 savings	True-up											12												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Energy Manager	Verified											12																					0%
	Adjustment to 2011 savings	True-up											12												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	Retrofit	Verified	1,994,497	1,994,497	1,994,497	1,994,497	1,994,497	1,994,497	1,994,497	1,994,497	1,932,922	1,932,922	12	422	422	422	422	422	422	422	422	402	402		19.00%	56.00%	25.00%	1.00%						101%
	Adjustment to 2011 savings	True-up											12												0.00%	19.00%	56.00%	25.00%	1.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Demand Response 3	Verified	189,961											3,236													25.00%	75.00%							100%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	25.00%	75.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Home Assistance Program																																	
23	Home Assistance Program	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Aboriginal Program																																	
24	Home Assistance Program	Verified																																0%
	Adjustment to 2011 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25	Direct Install Lighting	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pre-2011 Programs completed in 2011																																	
26	Electricity Retrofit Incentive Program	Verified	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12	2,148	2,148	2,148	2,148	2,148	2,148	2,148	2,148	2,148	2,148		17.00%	56.00%	28.00%	0.00%						101%
	Adjustment to 2011 savings	True-up											12												0.00%	17.00%	56.00%	28.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	High Performance New Construction	Verified	828,974	828,974	828,974	828,974	828,974	828,974	828,974	828,974	828,974	828,974	12	161	161	161	161	161	161	161	161	161	161		17.00%	56.00%	28.00%	0.00%						101%
	Adjustment to 2011 savings	True-up	93,683	93,683	93,683	93,683	93,683	93,683	93,683	93,683	93,683	93,683	12	90	90	90	90	90	90	90	90	90	90		0.00%	17.00%	56.00%	28.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Toronto Comprehensive	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Multifamily Energy Efficiency Rebates	Verified	314	314	314	314	314	314	314	314	314	314	0	0	0	0	0	0	0	0	0	0	0		17.00%	56.00%	28.00%	0.00%						101%
	Adjustment to 2011 savings	True-up											0												0.00%	17.00%	56.00%	28.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	LDC Custom Programs	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																	
31	Program Enabled Savings	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Time of Use Savings	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33	LDC Pilots	Verified											0																					0%
	Adjustment to 2011 savings	True-up											0												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2011		44,010,248	43,747,165	43,499,671	42,349,076	41,579,146	40,731,862	34,027,429	33,495,344	31,340,305	30,295,527		16,222	10,887	10,802	10,398	10,357	10,156	7,576	7,400	6,886	6,838	5,859,884	13,886,723	39,498	18,145	375	0	0	0	0	0	0	0
	Forecast CDM Savings in 2011																							0	0	0	0	0	0	0	0	0	0	0	0
	Distribution Rate in 2011																							$0.01150	$0.01130	$4.12090	$2.04360	$2.85970	$10.00350	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
	Lost Revenue in 2011 from 2011 programs																							**$67,388.67**	**$156,919.97**	**$162,769.29**	**$37,080.30**	**$1,071.36**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 425,229.59**
	Forecast Lost Revenues in 2011																							**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
	LRAMVA in 2011																																	**$ 425,229.59**

2011 Savings Persisting in 2012																															
2011 Savings Persisting in 2013																															
2011 Savings Persisting in 2014																															
2011 Savings Persisting in 2015																															
2011 Savings Persisting in 2016																															
2011 Savings Persisting in 2017																															
2011 Savings Persisting in 2018																															
2011 Savings Persisting in 2019																															
2011 Savings Persisting in 2020																															

2011 Savings Persisting in 2012													5,859,110	13,884,648	39,495	18,142	375	0	0	0	0	0	0	0	0	0					
2011 Savings Persisting in 2013													5,859,110	13,637,153	39,495	18,142	375	0	0	0	0	0	0	0	0	0					
2011 Savings Persisting in 2014													5,852,467	12,493,303	39,495	18,142	375	0	0	0	0	0	0	0	0	0					
2011 Savings Persisting in 2015													5,493,533	12,491,993	39,489	18,124	375	0	0	0	0	0	0	0	0	0					
2011 Savings Persisting in 2016													4,691,083	12,388,424	39,027	17,610	369	0	0	0	0	0	0	0	0	0					
2011 Savings Persisting in 2017													4,281,428	6,299,254	38,493	17,389	361	0	0	0	0	0	0	0	0	0					
2011 Savings Persisting in 2018													4,275,623	6,194,447	37,240	16,872	341	0	0	0	0	0	0	0	0	0					
2011 Savings Persisting in 2019													4,611,484	5,721,176	33,245	15,219	277	0	0	0	0	0	0	0	0	0					
2011 Savings Persisting in 2020													3,566,706	5,721,176	33,245	15,219	277	0	0	0	0	0	0	0	0	0					

Note: LDC to make note of assumptions included above

Table 4-b. 2012 Lost Revenues Work Form Return to top Go to Persistence Report

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)										Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									
			2012	2013	2014	2015	2016	2017	2018	2019	2020	2021			2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	Consumer Program																							
1	Appliance Retirement	Verified	430,436	430,436	430,436	429,719	276,505	0	0	0	0	0			59	59	59	58	36	0	0	0	0	0
	Adjustment to 2012 savings	True-up																						
2	Appliance Exchange	Verified	30,332	30,332	30,332	29,954	0	0	0	0	0	0			17	17	17	17	0	0	0	0	0	0
	Adjustment to 2012 savings	True-up																						
3	HVAC Incentives	Verified	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291			1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202
	Adjustment to 2012 savings	True-up	54,157	54,157	54,157	54,157	54,157	54,157	54,157	54,157	54,157	54,157			28	28	28	28	28	28	28	28	28	28
4	Conservation Instant Coupon Booklet	Verified	54,900	54,900	54,900	54,900	54,075	54,075	25,464	25,323	25,323	25,323			9	9	9	9	9	9	8	8	8	8
	Adjustment to 2012 savings	True-up																						
5	Bi-Annual Retailer Event	Verified	1,051,579	1,051,579	1,051,579	1,051,579	945,302	768,666	524,309	523,219	523,219	265,755			58	58	58	58	53	45	34	34	34	22
	Adjustment to 2012 savings	True-up																						
6	Retailer Co-op	Verified																						
	Adjustment to 2012 savings	True-up																						
7	Residential Demand Response	Verified	10,075												1,262									
	Adjustment to 2012 savings	True-up																						
8	Residential Demand Response (IHD)	Verified																						
	Adjustment to 2012 savings	True-up																						
9	Residential New Construction	Verified																						
	Adjustment to 2012 savings	True-up																						
	Business Program																							
10	Retrofit	Verified	24,392,637	24,288,756	24,131,826	23,935,785	23,935,785	23,037,690	22,455,199	22,455,199	21,163,793	13,698,164		12	4,531	4,500	4,452	4,392	4,392	4,118	4,020	4,020	3,671	2,361
	Adjustment to 2012 savings	True-up	4,785,698	4,785,698	4,767,246	4,659,434	4,659,434	4,458,711	4,435,037	4,435,037	4,200,209	4,039,802		12	772	772	766	732	732	669	665	665	599	568
11	Direct Install Lighting	Verified	4,893,220	4,893,180	4,693,914	3,837,661	3,837,428	853,403	853,403	845,458	845,458	845,458		12	1,340	1,340	1,294	1,093	1,093	241	241	233	233	233
	Adjustment to 2012 savings	True-up	16,743	16,743	16,743	5,278	5,278	505	505	505	505	505		12	4	4	4	1	1	0	0	0	0	0
12	Building Commissioning	Verified												3										
	Adjustment to 2012 savings	True-up												3										
13	New Construction	Verified	247,001	247,001	247,001	247,001	247,001	247,001	247,001	247,001	247,001	247,001		12	97	97	97	97	97	97	97	97	97	97
	Adjustment to 2012 savings	True-up												12										
14	Energy Audit	Verified	931,521	931,521	931,521	931,521	0	0	0	0	0	0		12	192	192	192	192	0	0	0	0	0	0
	Adjustment to 2012 savings	True-up	301,583	301,583	301,583	301,583	0	0	0	0	0	0		12	62	62	62	62	0	0	0	0	0	0
15	Small Commercial Demand Response	Verified																						
	Adjustment to 2012 savings	True-up																						
16	Small Commercial Demand Response (IHD)	Verified																						
	Adjustment to 2012 savings	True-up																						
17	Demand Response 3	Verified	31,557												2,171									
	Adjustment to 2012 savings	True-up																						
	Industrial Program																							
18	Process & System Upgrades	Verified												12										
	Adjustment to 2012 savings	True-up												12										
19	Monitoring & Targeting	Verified												12										
	Adjustment to 2012 savings	True-up												12										
20	Energy Manager	Verified	17,296	17,296	17,296	17,296	17,296	17,296	17,296	17,296	17,296	17,296		12	3	3	3	3	3	3	3	3	3	3
	Adjustment to 2012 savings	True-up												12										
21	Retrofit	Verified												12										
	Adjustment to 2012 savings	True-up												12										
22	Demand Response 3	Verified	88,449												3,670									
	Adjustment to 2012 savings	True-up																						
	Home Assistance Program																							
23	Home Assistance Program	Verified	261,837	261,837	261,837	236,273	235,659	235,659	228,576	227,170	109,776	109,119			40	38	38	38	38	38	38	38	32	31
	Adjustment to 2012 savings	True-up	47,874	47,874	47,412	47,370	44,621	41,395	40,188	38,778	38,186	22,660			7	7	7	7	7	7	7	7	7	6
	Aboriginal Program																							
24	Home Assistance Program	Verified																						
	Adjustment to 2012 savings	True-up																						
25	Direct Install Lighting	Verified												0										
	Adjustment to 2012 savings	True-up												0										
	Pre-2011 Programs completed in 2011																							
26	Electricity Retrofit Incentive Program	Verified												12										
	Adjustment to 2012 savings	True-up												12										
27	High Performance New Construction	Verified	418,130	418,130	418,130	418,130	418,130	418,130	418,130	418,130	418,130	418,130		12	189	189	189	189	189	189	189	189	189	189
	Adjustment to 2012 savings	True-up												12										
28	Toronto Comprehensive	Verified												0										
	Adjustment to 2012 savings	True-up												0										
29	Multifamily Energy Efficiency Rebates	Verified												0										
	Adjustment to 2012 savings	True-up												0										
30	LDC Custom Programs	Verified												0										
	Adjustment to 2012 savings	True-up												0										
	Other																							
31	Program Enabled Savings	Verified												0										
	Adjustment to 2012 savings	True-up												0										
32	Time of Use Savings	Verified												0										
	Adjustment to 2012 savings	True-up												0										
33	LDC Pilots	Verified												0										
	Adjustment to 2012 savings	True-up												0										
	Actual CDM Savings in 2012		**40,078,316**	**39,844,314**	**39,472,204**	**38,273,931**	**36,746,963**	**32,203,978**	**31,315,557**	**31,303,565**	**29,982,344**	**21,759,761**			**15,713**	**8,577**	**8,477**	**8,176**	**7,881**	**6,845**	**6,529**	**6,521**	**6,100**	**4,744**
	Forecast CDM Savings in 2012																							

	Rate Allocations for LRAMVA																								
	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting																			Total
	kWh	kWh	kW	kW	kW	kW																			
1	100.00%																								100%
	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	100.00%																								100%
	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	100.00%																								100%
	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	100.00%																								100%
	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	100.00%																								100%
	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	100.00%																								100%
	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10		13%	66%	27.00%	3.00%																				100%
	0.00%	13.00%	66.00%	27.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11		100%																							100%
	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13				100.00%																					100%
	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14		7%	63%	30%																					100%
	0.00%	7.00%	63.00%	30.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17		0%	50%	50%																					100%
	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20			30.00%	70%																					100%
	0.00%	0.00%	30.00%	70.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22			50.00%	50.00%																					100%
	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23																									100%
	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27			50.00%	50.00%																					100%
	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
31																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33																									0%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

Distribution Rate in 2012													$0.01150	$0.01130	$4.13320	$2.04550	$2.86670	$10.01670	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2012 from 2011 programs													$67,379.76	$156,896.52	$163,241.37	$37,100.40	$1,073.83	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 425,700.90
Lost Revenue in 2012 from 2012 programs													$45,513.03	$99,387.04	$186,261.83	$41,767.72	$5,472.76	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 378,300.38
Total Lost Revenues in 2012													**$112,890.80**	**$256,183.56**	**$349,503.20**	**$78,877.14**	**$6,546.59**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 804,001.28**
Forecast Lost Revenues in 2012													**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2012																											**$ 804,001.28**
2012 Savings Persisting in 2013													3,947,406	8,772,919	44,814	20,307	1,898	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2014													3,946,944	8,553,853	44,388	20,133	1,879	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2015													3,930,242	7,646,635	43,945	19,929	1,845	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2016													3,626,611	7,580,085	41,730	18,917	1,845	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2017													3,170,243	4,428,570	39,059	17,824	1,723	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2018													2,888,986	4,349,639	38,243	17,491	1,686	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2019													2,884,939	4,341,694	38,243	17,491	1,686	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2020													2,766,953	4,143,673	34,960	16,148	1,537	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 4-c. 2013 Lost Revenues Work Form Return to top Go to Persistence Report

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
	Consumer Program																							
1	Appliance Retirement	Verified	247,739	247,739	247,739	247,431	144,651	0	0	0	0	0			37	37	37	37	21	0	0	0	0	0
	Adjustment to 2013 savings	True-up																						
2	Appliance Exchange	Verified	32,880	32,880	32,880	32,880	0	0	0	0	0	0			18	18	18	18	0	0	0	0	0	0
	Adjustment to 2013 savings	True-up																						
3	HVAC Incentives	Verified	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223			1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289
	Adjustment to 2013 savings	True-up	120,092	120,092	120,092	120,092	120,092	120,092	120,092	120,092	120,092	120,092			68	68	68	68	68	68	68	68	68	68
4	Conservation Instant Coupon Booklet	Verified	302,637	302,637	290,974	246,515	246,515	246,515	246,515	246,310	179,109	179,109			20	20	20	17	17	17	17	17	13	13
	Adjustment to 2013 savings	True-up	926	926	880	761	761	761	761	761	639	639			0	0	0	0	0	0	0	0	0	0

	Rate Allocations for LRAMVA																								
	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting								

5 Bi-Annual Retailer Event	Verified	674,564	674,564	633,920	495,212	495,212	495,212	495,212	494,628	415,954	415,954		46	46	44	35	35	35	35	35	30	30	100.00%														100%
Adjustment to 2013 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6 Retailer Co-op	Verified																																				0%
Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7 Residential Demand Response	Verified	10,205											6,291										100.00%														100%
Adjustment to 2013 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8 Residential Demand Response (IHD)	Verified																																				0%
Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9 Residential New Construction	Verified																																				0%
Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Business Program																																					
10 Retrofit	Verified	18,067,403	17,748,730	17,502,598	17,495,056	16,694,268	16,338,838	16,338,838	16,533,703	15,618,446	13,239,246	12	4,348	4,258	4,189	4,187	3,943	3,870	3,870	3,860	3,543	3,082		9%	64%	23%	10.00%										106%
Adjustment to 2013 savings	True-up	9,316,522	9,304,613	9,301,615	9,301,615	9,199,956	9,143,752	9,143,752	8,876,305	8,522,280	8,112,566	12	852	849	848	848	819	811	811	811	757	694	0.00%	9.00%	64.00%	23.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11 Direct Install Lighting	Verified	3,914,521	3,914,521	3,709,133	3,004,016	962,286	946,790	946,790	942,977	942,977	942,977	12	1,193	1,193	1,138	949	284	277	277	273	273	273		100%													100%
Adjustment to 2013 savings	True-up											12											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12 Building Commissioning	Verified											3																									0%
Adjustment to 2013 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13 New Construction	Verified											12													22.00%	78.00%											100%
Adjustment to 2013 savings	True-up	211,782	211,782	211,782	211,782	211,782	211,782	211,782	211,782	211,782	211,782	12	98	98	98	98	98	98	98	98	98	98	0.00%	0.00%	22.00%	78.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14 Energy Audit	Verified	532,958	532,958	532,958	532,958	0	0	0	0	0	0	12	97	97	97	97	0	0	0	0	0	0			18%	76.00%	6.00%										100%
Adjustment to 2013 savings	True-up	242,768	242,768	242,768	242,768	0	0	0	0	0	0	12	44	44	44	44	0	0	0	0	0	0	0.00%	0.00%	18.00%	76.00%	6.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15 Small Commercial Demand Response	Verified																																				0%
Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16 Small Commercial Demand Response (IHD)	Verified																																				0%
Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17 Demand Response 3	Verified	17,169											1,079												50.00%	50.00%											100%
Adjustment to 2013 savings	True-up																						0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Industrial Program																																					
18 Process & System Upgrades	Verified											12																									0%
Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19 Monitoring & Targeting	Verified											12																									0%
Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20 Energy Manager	Verified	3,762,469	2,058,621	2,058,621	2,025,411	1,119,420	25,920	25,920	25,920	25,920	25,920	12	974	888	888	885	724	25	25	25	25	25				30.00%	70%										100%
Adjustment to 2013 savings	True-up	8,343,933	9,626,653	9,626,653	9,624,763	10,523,554	11,599,054	11,599,054	11,599,054	11,590,954	11,590,954	12	891	944	944	943	1,096	1,795	1,795	1,795	1,795	1,795	0.00%	0.00%	0.00%	30.00%	70.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21 Retrofit	Verified											12																									0%
Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22 Demand Response 3	Verified	416,174											17,139												25.00%	75.00%											100%
Adjustment to 2013 savings	True-up																						0.00%	0.00%	25.00%	75.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Home Assistance Program																																					
23 Home Assistance Program	Verified	198,590	191,464	190,816	172,271	165,589	158,907	156,101	155,096	69,014	68,868		20	19	19	18	18	18	18	18	13	13	100%														100%
Adjustment to 2013 savings	True-up	273,584	266,606	265,961	249,158	243,290	237,427	234,199	232,774	154,230	153,858		56	56	56	55	54	54	54	54	50	49	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Aboriginal Program																																					
24 Home Assistance Program	Verified																																				0%
Adjustment to 2013 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25 Direct Install Lighting	Verified											0																									0%
Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Pre-2011 Programs completed in 2011																																					
26 Electricity Retrofit Incentive Program	Verified											12																									0%
Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27 High Performance New Construction	Verified											12																									0%
Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28 Toronto Comprehensive	Verified											0																									0%
Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29 Multifamily Energy Efficiency Rebates	Verified											0																									0%
Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30 LDC Custom Programs	Verified											0																									0%
Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Other																																					
31 Program Enabled Savings	Verified											0																									0%
Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32 Time of Use Savings	Verified											0																									0%
Adjustment to 2013 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33 Retrofit (Streetlight project)	Verified	5,110,764	5,110,764	5,110,764	5,110,764	5,110,764	5,110,764	5,110,764	4,845,772	4,699,277	4,699,277	12																100.00%									100%
Adjustment to 2013 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Actual CDM Savings in 2013		54,002,903	52,793,541	52,285,377	51,318,675	47,443,363	46,841,037	46,835,003	46,490,396	44,755,896	41,966,463		34,560	9,925	9,797	9,589	8,466	8,356	8,356	8,342	7,954	7,429	4,066,440	6,379,074	40,499	23,269	22,008	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2013																							35,842,920	39,519,293	19,284	16,135	15,417	61,001	0	0	0	0	0	0	0	0	
Distribution Rate in 2013																							$0.01310	$0.01150	$4.18510	$2.15720	$2.66560	$10.50330	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2013 from 2011 programs																							$76,754.34	$156,827.26	$165,291.16	$39,135.88	$998.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 439,007.15
Lost Revenue in 2013 from 2012 programs																							$51,711.02	$100,888.57	$187,550.13	$43,806.94	$5,059.27	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 389,015.93
Lost Revenue in 2013 from 2013 programs																							$53,270.36	$73,359.35	$169,493.54	$50,196.32	$58,663.25	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 404,982.82
Total Lost Revenues in 2013																							**$181,735.73**	**$331,075.18**	**$522,334.84**	**$133,139.14**	**$64,721.02**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$1,233,005.90**
Forecast Lost Revenues in 2013																							**$469,542.25**	**$454,471.87**	**$80,705.47**	**$34,806.42**	**$41,095.56**	**$640,711.80**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$1,721,333.37**
LRAMVA in 2013																																					**-$ 488,327.47**
2013 Savings Persisting in 2014																							4,042,130	6,349,322	39,785	22,889	21,615	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2015																							3,988,485	6,121,512	39,251	22,698	21,531	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2016																							3,769,542	5,415,716	39,234	22,680	21,502	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2017																							3,621,333	3,292,766	36,829	20,608	21,000	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2018																							3,464,137	3,240,223	36,205	20,383	20,903	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2019																							3,458,103	3,240,223	36,205	20,383	20,903	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2020																							3,454,883	3,229,877	36,131	20,357	20,891	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 4-d. 2014 Lost Revenues Work Form

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Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA														
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting									Total
Consumer Program																							kWh	kWh	kW	kW	kW	kW									
1 Appliance Retirement	Verified	205,529	205,529	205,529	205,112	130,786	0	0	0	0	0		30	30	30	30	19	0	0	0	0	0	100%														100%
Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2 Appliance Exchange	Verified	46,919	46,919	46,919	46,919	0	0	0	0	0	0		26	26	26	26	0	0	0	0	0	0	100%														100%
Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3 HVAC Incentives	Verified	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153		1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	100%														100%
Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4 Conservation Instant Coupon Booklet	Verified	1,166,247	1,089,769	1,052,672	1,052,672	1,052,672	1,052,672	1,052,672	1,050,742	1,050,742	906,024		87	82	79	79	79	79	79	79	79	70	100%														100%
Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5 Bi-Annual Retailer Event	Verified	4,825,760	4,186,296	3,853,043	3,853,043	3,853,043	3,853,043	3,853,043	3,851,374	3,851,374	3,581,992		316	276	255	255	255	255	255	255	255	238	100%														100%
Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
6 Retailer Co-op	Verified																																				0%
Adjustment to 2014 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7 Residential Demand Response	Verified	1,247											7,615										100.00%														100%
Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8 Residential Demand Response (IHD)	Verified																																				0%
Adjustment to 2014 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9 Residential New Construction	Verified	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304												100.00%														100%
Adjustment to 2014 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Business Program																																					
10 Retrofit	Verified	41,820,981	41,792,521	41,792,521	41,240,745	41,240,745	41,140,977	39,030,198	39,030,198	37,213,808	27,982,620	12	6,002	5,994	5,994	5,837	5,837	5,808	5,536	5,536	5,234	4,080		10%	67%	23%	4.00%										104%
Adjustment to 2014 savings	True-up											12											0.00%	10.00%	67.00%	23.00%	4.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
11 Direct Install Lighting	Verified	4,679,900	4,579,621	4,449,982	2,705,295	2,705,295	2,705,295	2,705,295	2,705,295	2,705,295	2,705,295	12	1,348	1,322	1,288	744	744	744	744	744	744	744		100%													100%
Adjustment to 2014 savings	True-up											12											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12 Building Commissioning	Verified											3																									0%
Adjustment to 2014 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13 New Construction	Verified	204,720	204,720	204,720	204,720	204,720	204,720	204,720	204,720	175,530	175,530	12	120	120	120	120	120	120	120	120	110	110		73.00%	11.00%	0.00%	9.00%										93%
Adjustment to 2014 savings	True-up											12											0.00%	73.00%	11.00%	0.00%	9.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14 Energy Audit	Verified	4,177,508	4,177,508	4,177,508	4,177,508	0	0	0	0	0	0	12	855	855	855	855	0	0	0	0	0	0		19.00%	60%	21.00%											100%
Adjustment to 2014 savings	True-up											12											0.00%	19.00%	60.00%	21.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15 Small Commercial Demand Response	Verified												243											100.00%													100%

	Adjustment to 2014 savings	True-up																					
16	Small Commercial Demand Response (IHD)	Verified																					
	Adjustment to 2014 savings	True-up																					
17	Demand Response 3	Verified												904									
	Adjustment to 2014 savings	True-up																					
	Industrial Program																						
18	Process & System Upgrades	Verified											12										
	Adjustment to 2014 savings	True-up											12										
19	Monitoring & Targeting	Verified											12										
	Adjustment to 2014 savings	True-up											12										
20	Energy Manager	Verified	3,893,879	2,676,503	2,372,464	2,372,464	2,372,464	2,372,464	2,372,464	2,372,464	2,372,464	2,372,464	12	478	385	290	290	290	290	290	290	290	290
	Adjustment to 2014 savings	True-up											12										
21	Retrofit	Verified											12										
	Adjustment to 2014 savings	True-up											12										
22	Demand Response 3	Verified												17,243									
	Adjustment to 2014 savings	True-up																					
	Home Assistance Program																						
23	Home Assistance Program	Verified	724,043	720,942	644,369	618,486	589,778	589,778	583,221	580,458	265,860	265,372		59	59	55	54	52	52	52	52	36	35
	Adjustment to 2014 savings	True-up																					
	Aboriginal Program																						
24	Home Assistance Program	Verified																					
	Adjustment to 2014 savings	True-up																					
25	Direct Install Lighting	Verified											0										
	Adjustment to 2014 savings	True-up											0										
	Pre-2011 Programs completed in 2011																						
26	Electricity Retrofit Incentive Program	Verified											12										
	Adjustment to 2014 savings	True-up											12										
27	High Performance New Construction	Verified											12										
	Adjustment to 2014 savings	True-up											12										
28	Toronto Comprehensive	Verified											0										
	Adjustment to 2014 savings	True-up											0										
29	Multifamily Energy Efficiency Rebates	Verified											0										
	Adjustment to 2014 savings	True-up											0										
30	LDC Custom Programs	Verified											0										
	Adjustment to 2014 savings	True-up											0										
	Other																						
31	2013 Streetlight Project	Verified											12										
	Adjustment to 2014 savings	True-up											12										
32	Time of Use Savings	Verified											0	3,831	0	0	0	0	0	0	0	0	0
	Adjustment to 2014 savings	True-up											0										
33	LDC Pilots	Verified	184,241	0	0	0	0	0	0	0	0	0	12	24	0	0	0	0	0	0	0	0	0
	Adjustment to 2014 savings	True-up											12										
	Actual CDM Savings in 2014		**64,513,431**	**62,262,785**	**61,382,184**	**59,059,420**	**54,731,959**	**54,501,405**	**52,384,070**	**52,377,708**	**50,217,530**	**40,571,754**		**40,579**	**10,548**	**10,391**	**9,687**	**8,794**	**8,746**	**8,473**	**8,473**	**8,146**	**6,965**
	Forecast CDM Savings in 2014																						

	Adjustment to 2014 savings	True-up	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Small Commercial Demand Response (IHD)	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	Demand Response 3	Verified			50.00%	50.00%											100%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																
18	Process & System Upgrades	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Monitoring & Targeting	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Energy Manager	Verified				42.00%	58.00%										100%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	42.00%	58.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	Retrofit	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Demand Response 3	Verified			25.00%	75.00%											100%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	25.00%	75.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Home Assistance Program																
23	Home Assistance Program	Verified	100%														100%
	Adjustment to 2014 savings	True-up	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Aboriginal Program																
24	Home Assistance Program	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25	Direct Install Lighting	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pre-2011 Programs completed in 2011																
26	Electricity Retrofit Incentive Program	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	High Performance New Construction	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Toronto Comprehensive	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Multifamily Energy Efficiency Rebates	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	LDC Custom Programs	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																
31	2013 Streetlight Project	Verified															0%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Time of Use Savings	Verified	100.00%														100%
	Adjustment to 2014 savings	True-up	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33	LDC Pilots	Verified				100.00%											100%
	Adjustment to 2014 savings	True-up	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2014		**9,552,202**	**9,805,170**	**54,570**	**21,417**	**6,337**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Forecast CDM Savings in 2014		**35,842,920**	**39,519,293**	**19,284**	**16,135**	**15,417**	**61,001**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
	Distribution Rate in 2014		$0.01310	$0.01170	$4.25020	$2.18700	$2.71450	$10.61920	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
	Lost Revenue in 2014 from 2011 programs		$76,667.32	$146,170.48	$167,862.30	$39,676.51	$1,016.82	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 431,393.43
	Lost Revenue in 2014 from 2012 programs		$51,704.97	$100,080.09	$188,656.43	$44,030.86	$5,099.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 389,571.85
	Lost Revenue in 2014 from 2013 programs		$52,951.91	$74,287.07	$169,093.11	$50,058.90	$58,672.92	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 405,063.91
	Lost Revenue in 2014 from 2014 programs		$125,133.85	$114,720.49	$231,935.45	$46,839.50	$17,202.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 535,832.28
	Total Lost Revenues in 2014		**$306,458.04**	**$435,258.12**	**$757,547.30**	**$180,605.78**	**$81,992.23**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 1,761,861.47**
	Forecast Lost Revenues in 2014		**$469,542.25**	**$462,375.73**	**$81,960.86**	**$35,287.25**	**$41,849.45**	**$647,781.82**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ 1,738,797.35**
	LRAMVA in 2014																**$ 23,064.12**
	2014 Savings Persisting in 2015		8,831,912	9,702,045	54,507	20,641	5,689	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2016		8,384,989	9,572,406	54,507	20,157	5,022	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2017		8,358,689	7,772,541	53,244	19,724	4,946	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2018		8,208,736	6,978,815	47,084	17,568	4,946	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2019		8,077,950	6,968,838	46,856	17,490	4,933	0	0	0	0	0	0	0	0	0	
	2014 Savings Persisting in 2020		8,071,393	6,757,760	44,665	16,738	4,802	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Ontario Energy Board

LRAMVA Work Form:
2015 - 2020 Lost Revenues Work Form

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2015-2020 period. Please input or manually link the savings, adjustments and program savings persistence in these tables from the LDC's Persistence Reports provided by the IESO (which are pasted following Tab 7. Persistence Data, tabs "7-a. 2011, 7-b. 2012, ... 7-j. 2020") to complete the tables below.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2016 programs that were reported by the IESO in 2017 should be included in the 2016 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments can be claimed as past approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless suported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the change.

4. LDC are requested to input the applicable rate class allocation percentages indicating the customer's share of consumption to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for programs and its savings adjustments. If a different allocation is proposed for savings adjustments, please highlight the change and provide rationale in Tab 1-a. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1. LDCs would need to manually update the tables and formulas below if more rate classes are needed.

5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. LDCs are requested to provide assumptions about the years that persistence is captured in the load forecast calculation in the "Notes" section below each table. If this is not the case, the LDC is requested to clearly articulate the rationale for including the persistence of future savings beyond the re-basing year in Tab 1-a.

Tables

Table 5-a. 2015 Lost Revenues Work Form Go to Persistence Report

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA										
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting						Total
	Legacy Framework																							kWh	kWh	kW	kW	kW	kW						
	Residential Program																																		
1	Coupon Initiative	Verified	2,173,737	2,154,375	2,154,375	2,154,375	2,154,375	2,154,375	2,154,375	2,153,946	2,153,946	2,153,946		141	140	140	140	140	140	140	140	140	140	100.00%											100%
	Adjustment to 2015 savings	True-up	502,885	497,119	497,119	497,119	497,119	497,119	497,119	496,860	496,860	496,860		32	32	32	32	32	32	32	32	32	32	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%						
2	Bi-Annual Retailer Event Initiative	Verified	3,679,485	3,614,091	3,614,091	3,614,091	3,614,091	3,614,091	3,614,091	3,612,200	3,612,200	3,612,200		248	244	244	244	244	244	244	244	244	244	100.00%											100%
	Adjustment to 2015 savings	True-up	38,059	37,613	37,613	37,613	37,613	37,613	37,613	37,519	37,519	37,519		2	2	2	2	2	2	2	2	2	2	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%						
3	Appliance Retirement Initiative	Verified	60,261	60,261	60,261	60,261	37,035	0	0	0	0	0		9	9	9	9	5	0	0	0	0	0	100.00%											100%
	Adjustment to 2015 savings	True-up																						100.00%	0.00%	0.00%	0.00%	0.00%	0.00%						
4	HVAC Incentives Initiative	Verified	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003		1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	100.00%											100%
	Adjustment to 2015 savings	True-up	110,951	110,951	110,951	110,951	110,951	110,951	110,951	110,951	110,951	110,951		57	57	57	57	57	57	57	57	57	57	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%						
5	Residential New Construction and Major	Verified																																	0%
	Adjustment to 2015 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%						
	Commercial & Institutional Program																																		
6	Energy Audit Initiative	Verified	3,573,385	3,573,385	3,573,385	3,573,385	0	0	0	0	0	0	12	762	762	762	762	0	0	0	0	0	0		16.00%	71.00%	10.00%	2.00%						99%
	Adjustment to 2015 savings	True-up	5,766,646	5,766,646	5,766,646	5,766,646	9,340,038	9,340,038	9,340,038	9,340,038	9,340,038	9,340,038	12	1,229	1,229	1,229	1,229	2,127	2,127	2,127	2,127	2,127	2,127	0.00%	16.00%	71.00%	10.00%	2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement Incentive Initiative	Verified	45,320,196	45,320,196	45,034,080	45,032,593	45,032,593	44,840,465	42,808,250	42,808,250	41,594,868	34,763,280	12	6,865	6,865	6,775	6,775	6,775	6,715	6,396	6,396	6,101	5,063		14.00%	58.00%	32.00%	5.00%						109%
	Adjustment to 2015 savings	True-up	2,784,592	2,784,592	2,777,671	2,771,791	2,771,791	2,771,791	2,533,149	2,533,149	2,502,350	1,509,208	12	462	462	460	458	458	458	419	419	409	247	0.00%	14.00%	58.00%	32.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Direct Install Lighting and Water Heating Initiative	Verified	3,360,796	3,220,399	1,926,026	1,925,910	1,925,910	1,925,910	1,925,910	1,925,910	1,925,910	1,925,910	12	810	778	441	441	441	441	441	441	441	441		100.00%										100%
	Adjustment to 2015 savings	True-up											12											0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
9	New Construction and Major Renovation Initiative	Verified	931,231	931,231	931,231	931,231	931,231	931,231	931,231	931,231	930,086	930,086	12	305	305	305	305	305	305	305	305	305	305		1.00%	5.00%	94.00%	0.00%						100%
	Adjustment to 2015 savings	True-up	573,307	573,307	573,307	573,307	573,307	573,307	573,307	573,307	573,307	573,307	12	200	200	200	200	200	200	200	200	200	200	0.00%	1.00%	5.00%	94.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Existing Building Commissioning Incentive Initiative	Verified											3																						0%
	Adjustment to 2015 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																		
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified											12														47.06%	52.94%							100%
	Adjustment to 2015 savings	True-up	2,462,181	2,462,181	515,382	515,382	515,382	515,382	515,382	515,382	515,382	515,382	12	272	272	61	61	61	61	61	61	61	61	0.00%	0.00%	0.00%	47.06%	52.94%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified											12																						0%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Process and Systems Upgrades Initiatives - Enerov Manager Initiative	Verified	4,040,545	3,202,504	3,202,504	3,202,504	3,095,771	3,095,771	3,013,834	2,972,509	2,972,509	1,392,934	12	1,232	1,146	1,146	1,146	1,127	1,127	1,107	1,089	1,089	342				50.00%	50.00%							100%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Low Income Program																																		
14	Low Income Initiative	Verified	343,883	274,624	264,688	254,747	253,557	253,557	249,109	248,306	141,134	140,918	12	30	26	26	25	25	25	25	25	19	19	100%											100%
	Adjustment to 2015 savings	True-up											12											100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																		
15	Aboriginal Conservation Program	Verified											0																						0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	2013 Streetlight Project	Verified											12																						0%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation Fund Pilots																																		
17	Conservation Fund Pilot - EnerNOC	Verified											0																						0%
	Adjustment to 2015 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	Loblaws Pilot	Verified	183,513	183,513	183,513	183,513	183,513	183,513	183,513	183,513	183,513	183,513	12	14	14	14	14	14	14	14	14	14	14				100.00%								100%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Conservation Fund Pilot - SEG	Verified	6,899,972										12	499												50.00%	50.00%								100%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Social Benchmarking Pilot	Verified											0																						0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation First Framework																																		
	Residential Province-Wide Programs																																		
21	Save on Energy Coupon Program	Verified																																	0%
	Adjustment to 2015 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Save on Energy Heating and Cooling Program	Verified																																	0%
	Adjustment to 2015 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	Save on Energy New Construction Program	Verified																																	0%
	Adjustment to 2015 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	Save on Energy Home Assistance Program	Verified																																	0%
	Adjustment to 2015 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Non-Residential Province-Wide Programs																																		
25	Save on Energy Audit Funding Program	Verified											12											0.00%	16.00%	71.00%	10.00%	2.00%	0.00%	0.00%	0.00%				99%
	Adjustment to 2015 savings	True-up	77,834	77,834	77,834	77,834	77,834	77,834	77,834	77,834	77,834	77,834	12	17	17	17	17	17	17	17	17	17	17	0.00%	16.00%	71.00%	10.00%	2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26	Save on Energy Retrofit Program	Verified											12											0.00%	13.55%	49.13%	31.85%	5.47%	0.00%	0.00%	0.00%				100%

	Adjustment to 2015 savings	True-up	210,218	210,218	210,218	210,218	210,218	210,218	192,248	192,248	192,248	135,499	12	45	45	45	45	45	45	41	41	41	29	0.00%	13.55%	49.13%	31.85%	5.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	Save on Energy Small Business Lighting Program	Verified											12																									0%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Save on Energy High Performance New Construction Program	Verified											12																									0%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Save on Energy Existing Building Commissioning Program	Verified											3																									0%
	Adjustment to 2015 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	Save on Energy Process & Systems Upgrades Program	Verified											12																									0%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
31	Save on Energy Monitoring & Targeting Program	Verified											12																									0%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Save on Energy Retrofit Program - P4P	Verified											12											0.00%	13.55%	49.13%	31.85%	5.47%	0.00%	0.00%	0.00%							100%
	Adjustment to 2015 savings	True-up	1,731,152	1,567,230	1,567,230	1,567,230	1,567,230	1,567,230	1,567,230	1,567,230	1,504,817	1,504,817	12	341	296	296	296	296	296	296	296	286	286	0.00%	13.55%	49.13%	31.85%	5.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Local & Regional Programs																																					
33	Business Refrigeration Local Program	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
34	First Nation Conservation Local Program	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
35	Social Benchmarking Local Program	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pilot Programs																																					
36	Enersource Hydro Mississauga Inc. - Performance-Based Conservation Pilot Program - Conservation Fund	Verified											12																									0%
	Adjustment to 2015 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
37	EnWin Utilities Ltd. - Building Optimization Pilot	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
38	EnWin Utilities Ltd. - Re-Invest Pilot	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
39	Horizon Utilities Corporation - ECM Furnace Motor Pilot	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40	Horizon Utilities Corporation - Social Benchmarking Pilot	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
41	Hydro Ottawa Limited - Conservation Voltage Regulation (CVR) Leveraging AMI Data Pilot	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
42	Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	Verified																																				0%
	Adjustment to 2015 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
43	Kitchener-Wilmot Hydro Inc. - Pilot - DCKV	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
44	Niagara-on-the-Lake Hydro Inc. - Direct Install Energy Efficiency Measures for the Agricultural Sector	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
45	Oakville Hydro Electricity Distribution Inc. - Direct Install - Hydronic	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
46	Oakville Hydro Electricity Distribution Inc. - Direct Install - RTU Controls	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
47	Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings)	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
48	Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
49	Toronto Hydro-Electric System Limited - PFP - Large (Pilot Savings)	Verified											0																									0%
	Adjustment to 2015 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Actual CDM Savings in 2015		87,408,832	79,206,273	75,662,126	75,644,704	75,513,562	75,284,399	72,909,184	72,864,386	71,449,475	61,988,205		14,927	14,256	13,616	13,613	13,726	13,661	13,279	13,261	12,940	10,981	9,493,264	11,880,403	73,677	49,807	14,252	0	0	0	0	0	0	0	0	0	
	Forecast CDM Savings in 2015																							35,842,920	39,519,293	19,284	16,135	15,417	61,001	0	0	0	0	0	0	0	0	
	Distribution Rate in 2015																							$0.01330	$0.01190	$4.31180	$2.21870	$2.75390	$10.77320	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
	Lost Revenue in 2015 from 2011 programs																							$73,063.99	$148,654.72	$170,269.92	$40,211.99	$1,031.58	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 433,232.20
	Lost Revenue in 2015 from 2012 programs																							$52,139.22	$90,994.95	$188,189.60	$43,995.23	$5,080.59	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 380,399.59
	Lost Revenue in 2015 from 2013 programs																							$53,046.85	$72,845.99	$169,244.40	$50,359.27	$59,295.07	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 404,791.58
	Lost Revenue in 2015 from 2014 programs																							$117,464.43	$115,454.33	$235,022.95	$45,795.42	$15,667.56	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 529,404.69
	Lost Revenue in 2015 from 2015 programs																							$126,260.41	$141,376.80	$317,680.45	$110,506.18	$39,247.43	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ 735,071.27
	Total Lost Revenues in 2015																							**$421,974.90**	**$569,326.79**	**$1,080,407.32**	**$290,868.10**	**$120,322.22**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**###########**
	Forecast Lost Revenues in 2015																							**$476,710.84**	**$470,279.59**	**$83,148.75**	**$35,798.72**	**$42,456.88**	**$657,175.97**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**###########**
	LRAMVA in 2015																																					**$ 717,328.59**
	2015 Savings Persisting in 2016																							9,333,037	11,717,796	70,418	46,125	13,706	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2017																							9,323,099	10,382,398	69,777	44,580	12,310	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2018																							9,313,160	10,381,251	69,763	44,572	12,309	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2019																							9,288,744	10,381,252	70,922	44,621	12,228	0	0	0	0	0	0	0	0	0	
	2015 Savings Persisting in 2020																							9,251,709	10,354,354	70,505	44,391	12,192	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 5-b. 2016 Lost Revenues Work Form Return to top Go to Persistence Report

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)									Rate Allocations for LRAMVA														
			2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting									Total
	Legacy Framework																							kWh	kWh	kW	kW	kW	kW									
	Residential Program																																					
1	Coupon Initiative	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	Bi-Annual Retailer Event Initiative	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
3	Appliance Retirement Initiative	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
4	HVAC Incentives Initaitive	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
5	Residential New Construction and Major Renovation Initiative	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Commercial & Institutional Program																																					
6	Energy Audit Initiative	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
7	Efficiency: Equipment Replacement Incentive Initiative	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
8	Direct Install Lighting and Water Heating Initiative	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

9	New Construction and Major Renovation Initiative	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	Existing Building Commissioning Incentive Initiative	Verified											3																									0%
	Adjustment to 2016 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Industrial Program																																					
11	Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
12	Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	Process and Systems Upgrades Initiatives - Energy Manager Initiative	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Low Income Program																																					
14	Low Income Initiative	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other																																					
15	Aboriginal Conservation Program	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	Program Enabled Savings	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation Fund Pilots																																					
17	Conservation Fund Pilot - EnerNOC	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	Loblaws Pilot	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	Conservation Fund Pilot - SEG	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	Social Benchmarking Pilot	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Conservation First Framework																																					
	Residential Province-Wide Programs																																					
21	Save on Energy Coupon Program	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	Save on Energy Heating and Cooling Program	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	Save on Energy New Construction Program	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	Save on Energy Home Assistance Program	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Non-Residential Province-Wide Programs																																					
25	Save on Energy Audit Funding Program	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26	Save on Energy Retrofit Program	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	Save on Energy Small Business Lighting Program	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	Save on Energy High Performance New Construction Program	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	Save on Energy Existing Building Commissioning Program	Verified											3																									0%
	Adjustment to 2016 savings	True-up											3											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	Save on Energy Process & Systems Upgrades Program	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
31	Save on Energy Monitoring & Targeting Program	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	Save on Energy Energy Manager Program	Verified											12																									0%
	Adjustment to 2016 savings	True-up											12											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Local & Regional Programs																																					
33	Business Refrigeration Local Program	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
34	First Nation Conservation Local Program	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
35	Social Benchmarking Local Program	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Pilot Programs																																					
36	Enersource Hydro Mississauga Inc. - Performance-Based Conservation Pilot Program - Conservation Fund	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
37	EnWin Utilities Ltd. - Building Optimization Pilot	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
38	EnWin Utilities Ltd. - Re-Invest Pilot	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
39	Horizon Utilities Corporation - ECM Furnace Motor Pilot	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40	Horizon Utilities Corporation - Social Benchmarking Pilot	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
41	Hydro Ottawa Limited - Conservation Voltage Regulation (CVR) Leveraging AMI Data Pilot	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
42	Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot	Verified																																				0%
	Adjustment to 2016 savings	True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
43	Kitchener-Wilmot Hydro Inc. - Pilot - DCKV	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
44	Niagara-on-the-Lake Hydro Inc. - Direct Install Energy Efficiency Measures for the Agricultural Sector	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
45	Oakville Hydro Electricity Distribution Inc. - Direct Install - Hydronic	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
46	Oakville Hydro Electricity Distribution Inc. - Direct Install - RTU Controls	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
47	Toronto Hydro-Electric System Limited - Direct Install - Hydronic (Pilot Savings)	Verified											0																									0%
	Adjustment to 2016 savings	True-up											0											0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

48 Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)	Verified											0										
Adjustment to 2016 savings	True-up											0										
49 Toronto Hydro-Electric System Limited - PFP - Large (Pilot Savings)	Verified											0										
Adjustment to 2016 savings	True-up											0										
Actual CDM Savings in 2016		0											0									
Forecast CDM Savings in 2016																						

48 Toronto Hydro-Electric System Limited - Direct Install - RTU Controls (Pilot Savings)														0%
Adjustment to 2016 savings	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
49 Toronto Hydro-Electric System Limited - PFP - Large (Pilot Savings)															0%
Adjustment to 2016 savings	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Actual CDM Savings in 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2016	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2016 from 2011 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2016 from 2012 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2016 from 2013 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2016 from 2014 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2016 from 2015 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2016 from 2016 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Total Lost Revenues in 2016	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2016	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2016															**$ -**
2016 Savings Persisting in 2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2016 Savings Persisting in 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2016 Savings Persisting in 2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2016 Savings Persisting in 2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 5-c. 2017 Lost Revenues Work Form Return to top Go to Persistence Report

Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Legacy Framework																						
Actual CDM Savings in 2017		0											0									
Forecast CDM Savings in 2017																						

Program	Rate Allocations for LRAMVA													
	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting								Total
Legacy Framework	kWh	kWh	kW	kW	kW	kW									
Actual CDM Savings in 2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2017	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2017 from 2011 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2012 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2013 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2014 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2015 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2016 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2017 from 2017 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Total Lost Revenues in 2017	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2017	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2017															**$ -**
2017 Savings Persisting in 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2017 Savings Persisting in 2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2017 Savings Persisting in 2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 5-d. 2018 Lost Revenues Work Form Return to top Go to Persistence Report

Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								
		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Legacy Framework																						
Actual CDM Savings in 2018		0											0									
Forecast CDM Savings in 2018																						

Program	Rate Allocations for LRAMVA													
	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting								Total
Legacy Framework	kWh	kWh	kW	kW	kW	kW									
Actual CDM Savings in 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2018	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2018 from 2011 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2012 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2013 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2014 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2015 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2016 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2017 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2018 from 2018 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Total Lost Revenues in 2018	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2018	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2018															**$ -**
2018 Savings Persisting in 2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2018 Savings Persisting in 2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 5-e. 2019 Lost Revenues Work Form Return to top Go to Persistence Report

Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								
		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Legacy Framework																						
Actual CDM Savings in 2019		0											0									
Forecast CDM Savings in 2019																						

Program	Rate Allocations for LRAMVA													
	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting								Total
Legacy Framework	kWh	kWh	kW	kW	kW	kW									
Actual CDM Savings in 2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2019	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2019 from 2011 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2012 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2013 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2014 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2015 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2016 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2017 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2018 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2019 from 2019 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Total Lost Revenues in 2019	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2019	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2019															**$ -**
2019 Savings Persisting in 2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of assumptions included above

Table 5-f. 2020 Lost Revenues Work Form Return to top Go to Persistence Report

Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)								
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Legacy Framework																						
Actual CDM Savings in 2020		0											0									
Forecast CDM Savings in 2020																						

Program	Rate Allocations for LRAMVA													
	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting								Total
Legacy Framework	kWh	kWh	kW	kW	kW	kW									
Actual CDM Savings in 2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2020	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	$0.00000	
Lost Revenue in 2020 from 2011 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2012 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2013 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2014 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2015 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2016 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2017 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2018 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2019 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Lost Revenue in 2020 from 2020 programs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$ -
Total Lost Revenues in 2020	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
Forecast Lost Revenues in 2020	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$ -**
LRAMVA in 2020															**$ -**

Note: LDC to make note of assumptions included above

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Ontario Energy Board

LRAMVA Work Form:
Carrying Charges by Rate Class

Version 2.0 (2017)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. The quarterly interest rates are used to calculate the carrying charges for LRAMVA. Starting from column I, the principle will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rates from column H to determine the monthly variances on carrying charges for each rate class by year.

2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.

Table 6. Prescribed Interest Rates

Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.10%
2018 Q1	
2018 Q2	
2018 Q3	
2018 Q4	
2019 Q1	
2019 Q2	
2019 Q3	
2019 Q4	
2020 Q1	
2020 Q2	
2020 Q3	
2020 Q4	

Check OEB website

Table 6-a. Calculation of Carrying Costs by Rate Class

Go to Tab 1: Summary

Month	Period	Quarter	Monthly Rate	Residential	GS<50 kW	General Service 50 to 499 kW	General Service 500 to 4,999 kW	Large Use	Street Lighting									Total
Jan-11	2011	Q1	0.12%	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Feb-11	2011	Q1	0.12%	$6.88	$16.02	$16.62	$3.79	$0.11	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$43.41
Mar-11	2011	Q1	0.12%	$13.76	$32.04	$33.23	$7.57	$0.22	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$86.82
Apr-11	2011	Q2	0.12%	$20.64	$48.06	$49.85	$11.36	$0.33	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$130.23
May-11	2011	Q2	0.12%	$27.52	$64.08	$66.46	$15.14	$0.44	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$173.64
Jun-11	2011	Q2	0.12%	$34.40	$80.09	$83.08	$18.93	$0.55	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$217.04
Jul-11	2011	Q3	0.12%	$41.28	$96.11	$99.70	$22.71	$0.66	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$260.45
Aug-11	2011	Q3	0.12%	$48.15	$112.13	$116.31	$26.50	$0.77	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$303.86
Sep-11	2011	Q3	0.12%	$55.03	$128.15	$132.93	$30.28	$0.87	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$347.27
Oct-11	2011	Q4	0.12%	$61.91	$144.17	$149.54	$34.07	$0.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$390.68
Nov-11	2011	Q4	0.12%	$68.79	$160.19	$166.16	$37.85	$1.09	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$434.09
Dec-11	2011	Q4	0.12%	$75.67	$176.21	$182.78	$41.64	$1.20	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$477.50
Total for 2011				**$454.03**	**$1,057.25**	**$1,096.66**	**$249.83**	**$7.22**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$2,864.98**
Amount Cleared																		
Opening Balance for 2012				**$454.03**	**$1,057.25**	**$1,096.66**	**$249.83**	**$7.22**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$2,864.98**
Jan-12	2011-2012	Q1	0.12%	$82.55	$192.23	$199.39	$45.42	$1.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$520.91
Feb-12	2011-2012	Q1	0.12%	$94.08	$218.38	$235.07	$53.48	$1.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$602.98
Mar-12	2011-2012	Q1	0.12%	$105.60	$244.53	$270.75	$61.53	$2.65	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$685.06
Apr-12	2011-2012	Q2	0.12%	$117.12	$270.68	$306.43	$69.58	$3.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$767.13
May-12	2011-2012	Q2	0.12%	$128.65	$296.84	$342.11	$77.63	$3.99	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$849.21
Jun-12	2011-2012	Q2	0.12%	$140.17	$322.99	$377.78	$85.68	$4.65	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$931.28
Jul-12	2011-2012	Q3	0.12%	$151.70	$349.14	$413.46	$93.74	$5.32	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,013.36
Aug-12	2011-2012	Q3	0.12%	$163.22	$375.29	$449.14	$101.79	$5.99	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,095.43
Sep-12	2011-2012	Q3	0.12%	$174.75	$401.44	$484.82	$109.84	$6.66	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,177.51
Oct-12	2011-2012	Q4	0.12%	$186.27	$427.60	$520.50	$117.89	$7.33	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,259.58
Nov-12	2011-2012	Q4	0.12%	$197.79	$453.75	$556.18	$125.94	$8.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,341.66
Dec-12	2011-2012	Q4	0.12%	$209.32	$479.90	$591.86	$134.00	$8.66	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,423.73
Total for 2012				**$2,205.25**	**$5,090.01**	**$5,844.14**	**$1,326.34**	**$67.07**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$14,532.82**
Amount Cleared																		
Opening Balance for 2013				**$2,205.25**	**$5,090.01**	**$5,844.14**	**$1,326.34**	**$67.07**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$14,532.82**
Jan-13	2011-2013	Q1	0.12%	$220.84	$506.05	$627.53	$142.05	$9.33	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,505.81
Feb-13	2011-2013	Q1	0.12%	$191.46	$493.46	$672.62	$152.09	$11.74	-$62.21	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,459.16
Mar-13	2011-2013	Q1	0.12%	$162.08	$480.86	$717.70	$162.12	$14.16	-$124.42	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,412.50
Apr-13	2011-2013	Q2	0.12%	$132.70	$468.26	$762.78	$172.16	$16.57	-$186.62	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,365.85
May-13	2011-2013	Q2	0.12%	$103.32	$455.66	$807.87	$182.20	$18.98	-$248.83	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,319.20
Jun-13	2011-2013	Q2	0.12%	$73.94	$443.07	$852.95	$192.24	$21.39	-$311.04	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,272.55
Jul-13	2011-2013	Q3	0.12%	$44.56	$430.47	$898.03	$202.28	$23.80	-$373.25	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,225.90
Aug-13	2011-2013	Q3	0.12%	$15.18	$417.87	$943.11	$212.31	$26.21	-$435.45	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,179.24
Sep-13	2011-2013	Q3	0.12%	-$14.20	$405.28	$988.20	$222.35	$28.63	-$497.66	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,132.59
Oct-13	2011-2013	Q4	0.12%	-$43.58	$392.68	$1,033.28	$232.39	$31.04	-$559.87	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,085.94
Nov-13	2011-2013	Q4	0.12%	-$72.96	$380.08	$1,078.36	$242.43	$33.45	-$622.08	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,039.29
Dec-13	2011-2013	Q4	0.12%	-$102.34	$367.49	$1,123.45	$252.47	$35.86	-$684.29	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$992.64
Total for 2013				**$2,916.26**	**$10,331.25**	**$16,350.03**	**$3,693.43**	**$338.24**	**-$4,105.72**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$29,523.48**
Amount Cleared																		
Opening Balance for 2014				**$2,916.26**	**$10,331.25**	**$16,350.03**	**$3,693.43**	**$338.24**	**-$4,105.72**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$29,523.48**
Jan-14	2011-2014	Q1	0.12%	-$131.72	$354.89	$1,168.53	$262.51	$38.27	-$746.49	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$945.98
Feb-14	2011-2014	Q1	0.12%	-$148.37	$352.12	$1,237.50	$277.34	$42.37	-$796.44	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$964.52
Mar-14	2011-2014	Q1	0.12%	-$165.02	$349.35	$1,306.46	$292.17	$46.47	-$846.39	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$983.05
Apr-14	2011-2014	Q2	0.12%	-$181.67	$346.59	$1,375.43	$307.01	$50.57	-$896.34	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,001.58
May-14	2011-2014	Q2	0.12%	-$198.31	$343.82	$1,444.39	$321.84	$54.66	-$946.29	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,020.11
Jun-14	2011-2014	Q2	0.12%	-$214.96	$341.05	$1,513.36	$336.68	$58.76	-$996.24	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,038.65
Jul-14	2011-2014	Q3	0.12%	-$231.61	$338.28	$1,582.33	$351.51	$62.86	-$1,046.19	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,057.18
Aug-14	2011-2014	Q3	0.12%	-$248.26	$335.51	$1,651.29	$366.35	$66.96	-$1,096.14	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,075.71
Sep-14	2011-2014	Q3	0.12%	-$264.91	$332.74	$1,720.26	$381.18	$71.06	-$1,146.09	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,094.24
Oct-14	2011-2014	Q4	0.12%	-$281.55	$329.98	$1,789.22	$396.02	$75.15	-$1,196.04	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,112.77
Nov-14	2011-2014	Q4	0.12%	-$298.20	$327.21	$1,858.19	$410.85	$79.25	-$1,245.99	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,131.31
Dec-14	2011-2014	Q4	0.12%	-$314.85	$324.44	$1,927.16	$425.69	$83.35	-$1,295.94	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,149.84
Total for 2014				**$236.83**	**$14,407.23**	**$34,924.15**	**$7,822.58**	**$1,067.98**	**-$16,360.34**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$42,098.43**
Amount Cleared																		
Opening Balance for 2015				**$236.83**	**$14,407.23**	**$34,924.15**	**$7,822.58**	**$1,067.98**	**-$16,360.34**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$42,098.43**
Jan-15	2011-2015	Q1	0.12%	-$331.50	$321.67	$1,996.12	$440.52	$87.45	-$1,345.89	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,168.37
Feb-15	2011-2015	Q1	0.12%	-$337.09	$331.78	$2,097.93	$466.56	$95.40	-$1,381.96	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,272.62
Mar-15	2011-2015	Q1	0.12%	-$342.67	$341.89	$2,199.73	$492.60	$103.35	-$1,418.02	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,376.87
Apr-15	2011-2015	Q2	0.09%	-$260.60	$263.41	$1,722.24	$388.09	$83.28	-$1,088.09	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,108.32
May-15	2011-2015	Q2	0.09%	-$264.79	$270.97	$1,798.42	$407.58	$89.23	-$1,115.08	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,186.33
Jun-15	2011-2015	Q2	0.09%	-$268.97	$278.54	$1,874.59	$427.06	$95.18	-$1,142.07	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,264.34

Jul-15	2011-2015	Q3	0.09%	-$273.15	$286.10	$1,950.77	$446.55	$101.13	-$1,169.06	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,342.35
Aug-15	2011-2015	Q3	0.09%	-$277.33	$293.67	$2,026.95	$466.03	$107.07	-$1,196.04	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,420.36
Sep-15	2011-2015	Q3	0.09%	-$281.51	$301.24	$2,103.13	$485.52	$113.02	-$1,223.03	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,498.37
Oct-15	2011-2015	Q4	0.09%	-$285.69	$308.80	$2,179.31	$505.00	$118.97	-$1,250.02	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,576.38
Nov-15	2011-2015	Q4	0.09%	-$289.87	$316.37	$2,255.49	$524.49	$124.92	-$1,277.01	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,654.38
Dec-15	2011-2015	Q4	0.09%	-$294.05	$323.93	$2,331.67	$543.97	$130.87	-$1,303.99	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,732.39
Total for 2015				**-$3,270.39**	**$18,045.61**	**$59,460.51**	**$13,416.55**	**$2,317.83**	**-$31,270.62**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$58,699.49**
Amount Cleared																		
Opening Balance for 2016				**-$3,270.39**	**$18,045.61**	**$59,460.51**	**$13,416.55**	**$2,317.83**	**-$31,270.62**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$58,699.49**
Jan-16	2011-2016	Q1	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Feb-16	2011-2016	Q1	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Mar-16	2011-2016	Q1	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Apr-16	2011-2016	Q2	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
May-16	2011-2016	Q2	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Jun-16	2011-2016	Q2	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Jul-16	2011-2016	Q3	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Aug-16	2011-2016	Q3	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Sep-16	2011-2016	Q3	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Oct-16	2011-2016	Q4	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Nov-16	2011-2016	Q4	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Dec-16	2011-2016	Q4	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Total for 2016				**-$6,849.21**	**$22,023.61**	**$88,354.73**	**$20,178.01**	**$3,959.60**	**-$47,242.41**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$80,424.33**
Amount Cleared																		
Opening Balance for 2017				**-$6,849.21**	**$22,023.61**	**$88,354.73**	**$20,178.01**	**$3,959.60**	**-$47,242.41**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$80,424.33**
Jan-17	2011-2017	Q1	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Feb-17	2011-2017	Q1	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Mar-17	2011-2017	Q1	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Apr-17	2011-2017	Q2	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
May-17	2011-2017	Q2	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Jun-17	2011-2017	Q2	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Jul-17	2011-2017	Q3	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Aug-17	2011-2017	Q3	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Sep-17	2011-2017	Q3	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Oct-17	2011-2017	Q4	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Nov-17	2011-2017	Q4	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Dec-17	2011-2017	Q4	0.09%	-$298.23	$331.50	$2,407.85	$563.45	$136.81	-$1,330.98	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,810.40
Total for 2017				**-$10,428.03**	**$26,001.61**	**$117,248.94**	**$26,939.47**	**$5,601.36**	**-$63,214.19**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$102,149.17**

Ontario Energy Board

Supporting Documentation:
LDC Persistence Savings Results from IESO

Version 2.0 (2017)

Legend | Instructions (Grey)

Supporting Documentation

The following tabs 7-a to 7-j must be populated with the verified savings results from the IESO's (or former OPA's) persistence reports.
The persistence data tabs have been structured in a way to match the formatting of the persistence report provided by the IESO.

Ontario Energy Board

2011

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-a. 2011 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2011 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2011 programs that become available in future evaluation audits are included in the 2011 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status
1	Tier 1	Consumer	Appliance Exchange	Enersourc	Residentia	EE	2011		Final; Rele
2	Tier 1	Consumer	Appliance Retirement	Enersourc	Residentia	EE	2011		Final; Rele
3	Tier 1	Consumer	Bi-Annual Retailer Event	Enersourc	Residentia	EE	2011		Final; Rele
4	Tier 1	Consumer	Conservation Instant Coupon Booklet	Enersourc	Residentia	EE	2011		Final; Rele
5	Tier 1	Consumer	HVAC Incentives	Enersourc	Residentia	EE	2011		Final; Rele
6	Tier 1	Consumer	Residential Demand Response	Enersourc	Residentia	DR	2011		Final; Rele
7	Tier 1	Consumer	Retailer Co-op	Enersourc	Residentia	EE	2011		Final; Rele
8	Tier 1	Business	Demand Response 3 (part of the Industrial program schedule)	Enersourc	Commerci	DR	2011		Final; Rele
9	Tier 1	Business	Direct Install Lighting	Enersourc	Commerci	EE	2011		Final; Rele
10	Tier 1	Business	Retrofit	Enersourc	Commerci	EE	2011		Final; Rele
11	Tier 1	Industrial	Demand Response 3	Enersourc	Industrial	DR	2011		Final; Rele
12	Tier 1	Industrial	Retrofit	Enersourc	Industrial	EE	2011		Final; Rele
13	Tier 1	Pre-2011 Prc	Electricity Retrofit Incentive Program	Enersourc	Commerci	EE	2011		Final; Rele
14	Tier 1	Pre-2011 Prc	High Performance New Construction	Enersourc	Commerci	EE	2011		Final; Rele
15	Tier 1	Pre-2011 Prc	Multifamily Energy Efficiency Rebates	Enersourc	Commerci	EE	2011		Final; Rele
etc.									

Supporting Documentation:
LDC Persistence Savings Results from IESO

Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)		Net Verified Annual Peak Demand Savings at the End-User Level (kW)											
						2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
ased Augu	Appliances	98	19	22,010		10	10	10	3		-	-	-	-		-	-
ased Augu	Appliances	2,062	233	1,711,574		110	110	110	109	81	-	-	-	-		-	-
ased Augu	Products	34,173	59	1,056,196		66	66	66	66	61	56	46	45	55	26	4	4
ased Augu	Products	20,386	42	692,278		47	47	47	47	44	41	35	34	40	23	3	3
ased Augu	Installatio	7,261	3,301	6,033,153		1,995	1,995	1,995	1,995	1,995	1,995	1,995	1,995	1,995	1,995	1,995	1,995
New parti	Devices	533	298	773		298					-	-	-	-		-	-
Custom re	Products	5	0	129		0	0	0	0	0	0	0	0	0	0	-	-
Gross refl	Facilities	10	2,373	70,271		1,800					-	-	-	-		-	-
ased Augu	Projects	3,407	3,137	9,136,175		3,359	3,359	3,274	2,887	2,887	2,867	415	407	407	407	371	371
ased Augu	Projects	198	3,113	16,278,798		2,236	2,236	2,236	2,236	2,236	2,236	2,236	2,236	1,733	1,733	411	411
Gross refl	Facilities	8	3,840	189,961		3,236					-	-	-	-		-	-
ased Augu	Projects	32	594	2,652,721		422	422	422	422	422	422	422	422	402	402	129	129
Not evalu	Projects	185	4,087	23,397,458		2,148	2,148	2,148	2,148	2,148	2,148	2,148	2,148	2,148	2,148	2,148	2,148
Not evalu	Projects	4	323	1,657,947		161	161	161	161	161	161	161	161	161	161	161	161
Not evalu	Projects	2	0	462		0	0	0	0	0	0	0	0	0	0	0	0

2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,995	1,995	1,995	1,995	1,995	1,995	1,577	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
411	411	411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
129	129	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
161	161	161	96	96	96	96	96	96	96	96	96	96	96	-	-	-	-
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Net Verified Annual Energy Savings at the End-User Level (kWh)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
11,343	11,343	11,343	5,414	-	-	-	-	-	-	-
812,064	812,064	812,064	811,350	618,340	-	-	-	-	-	-
1,153,895	1,153,895	1,153,895	1,153,895	1,054,575	946,072	713,278	710,676	918,499	294,738	106,126
763,430	763,430	763,430	763,430	702,240	635,393	498,237	495,051	623,089	238,796	75,884
3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070
773	-	-	-	-	-	-	-	-	-	-
87	87	87	87	87	87	49	49	49	12	-
70,271	-	-	-	-	-	-	-	-	-	-
8,483,296	8,481,220	8,234,295	7,110,797	7,110,797	7,065,244	1,115,244	1,109,301	1,109,301	1,109,301	873,450
12,075,272	12,075,272	12,075,272	12,075,272	12,075,272	12,075,272	12,075,272	12,075,272	9,675,568	9,675,568	2,679,785
189,961	-	-	-	-	-	-	-	-	-	-
1,994,497	1,994,497	1,994,497	1,994,497	1,994,497	1,994,497	1,994,497	1,994,497	1,932,922	1,932,922	188,877
12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671	12,349,671
828,974	828,974	828,974	828,974	828,974	828,974	828,974	828,974	828,974	828,974	828,974
314	314	314	314	314	314	314	314	314	314	314

2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
93,420	93,420	68,994	68,994	62,689	-	-	-	-	-
61,290	61,290	56,171	56,171	54,539	-	-	-	-	-
3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,614,070	3,240,132	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
873,450	13,492	13,492	13,492	-	-	-	-	-	-
2,679,785	2,679,785	2,679,785	2,679,785	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
188,877	188,877	188,877	188,877	-	-	-	-	-	-
12,349,671	12,349,671	-	-	-	-	-	-	-	-
828,974	828,974	828,974	828,974	494,260	494,260	494,260	494,260	494,260	494,260
314	314	-	-	-	-	-	-	-	-

2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
494,260	494,260	494,260	494,260	494,260	-	-	-	-
-	-	-	-	-	-	-	-	-

Legend	User Inputs (Green)	
	Instructions (Grey)	

Table 7-b. 2012 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2012 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2012 programs that become available in future evaluation audits are included in the 2012 form below.

	#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name
	1	Tier 1	Business	Direct Install Lighting	Enersourc	C&I	EE	2012		Final; Released Augu		Projects
	2	Tier 1	Business	Retrofit	Enersourc	C&I	EE	2012		Final; Released Augu		Projects
	3	Tier 1	Business	Energy Audit	Enersourc	C&I	EE	2012		Final; Released Augu		Audits
	4	Tier 1	Business	High Performance New Construction	Enersourc	C&I	EE	2012		Final; Released Augu		Projects
	5	Tier 1	Consumer	Appliance Exchange	Enersourc	Residentia	EE	2012		Final; Released Augu		Appliances
	6	Tier 1	Consumer	Appliance Retirement	Enersourc	Residentia	EE	2012		Final; Released Augu		Appliances
	7	Tier 1	Consumer	Bi-Annual Retailer Event	Enersourc	Residentia	EE	2012		Final; Released Augu		Products
	8	Tier 1	Consumer	Conservation Instant Coupon Booklet	Enersourc	Residentia	EE	2012		Final; Released Augu		Products
	9	Tier 1	Consumer	HVAC Incentives	Enersourc	Residentia	EE	2012		Final; Released Augu		Installatio
	10	Tier 1	Consumer	Residential Demand Response	Enersourc	Residentia	DR	2012		Final; Released Augu		Devices
	11	Tier 1	Home Assistanc	Home Assistance Program	Enersourc	Residentia	EE	2012		Final; Released Augu		Projects
	12	Tier 1	Industrial	Demand Response 3	Enersourc	Industrial	DR	2012		Final; Released Augu		Facilities
	13	Tier 1	Pre-2011 Progra	High Performance New Construction	Enersourc	C&I	EE	2012		Final; Released Augu		Projects
	14	Tier 1	Business	Demand Response 3 (part of the Industrial program schedule)	Enersourc	C&I	DR	2012		Final; Released Augu		Facilities
	15	Tier 1	Industrial	Energy Manager	Enersourc	Industrial	EE	2012		Final; Released August 31, 2013		
Informatio	16	Non-Tier 1	Consumer	Residential and Small Commercial Demand Response	Enersourc	Residentia	DR	2012		Final; Released Augu		Devices
Informatio	17	Non-Tier 1	Consumer	Residential and Small Commercial Demand Response	Enersourc	Residentia	DR	2012		Final; Released Augu		Devices
Informatio	18	Non-Tier 1	Industrial	Demand Response 3	Enersourc	Industrial	DR	2012		Final; Released Augu		Facilities
Informatio	19	Non-Tier 1	Business	Residential and Small Commercial Demand Response	Enersourc	Business	DR	2012		Final; Released Augu		Devices
Informatio	20	Non-Tier 1	Business	Demand Response 3	Enersourc	Business	DR	2012		Final; Released Augu		Facilities
	21	Tier 1 - 2011 Adjustment	Business	Retrofit	Enersourc	C&I	EE	2011		Final; Released Augu		Projects
	22	Tier 1 - 2011 Adjustment	Business	Direct Install Lighting	Enersourc	C&I	EE	2011		Final; Released Augu		Projects
	23	Tier 1 - 2011 Adjustment	Business	Energy Audit	Enersourc	C&I	EE	2011		Final; Released Augu		Projects
	24	Tier 1 - 2011 Adjustment	Pre-2011 Progra	High Performance New Construction	Enersourc	C&I	EE	2011		Final; Released Augu		Buildings
	25	Tier 1 - 2011 Adjustment	Consumer	HVAC Incentives	Enersourc	Residentia	EE	2011		Final; Released Augu		Installatio
	26	Tier 1 - 2011 Adjustment	Consumer	Bi-Annual Retailer Event	Enersourc	Residentia	EE	2011		Final; Released Augu		Products
	27	Tier 1 - 2011 Adjustment	Consumer	Conservation Instant Coupon Booklet	Enersourc	Residentia	EE	2011		Final; Released Augu		Products
	etc.											

Supporting Documentation:
Persistence Savings Results from IESO

Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)	Net Verified Annual Peak Demand Savings at the End-User Level (kW)													
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
1,556	64	115,551	-	1,340	1,340	1,294	1,093	1,093	241	241	233	233	233	221	221	16	16
359	6,027	32,442,207	-	4,531	4,500	4,452	4,392	4,392	4,118	4,020	4,020	3,671	2,361	2,317	2,317	810	640
37	255	372,632	-	192	192	192	192	-	-	-	-	-	-	-	-	-	-
1	128	32,229	-	97	97	97	97	97	97	97	97	97	97	97	97	97	97
118	23	58,856	-	17	17	17	17	-	-	-	-	-	-	-	-	-	-
1,075	79	916,136	-	59	59	59	58	36	-	-	-	-	-	-	-	-	-
41,656	77	1,147,401	-	58	58	58	58	53	45	34	34	34	22	8	8	8	8
1,213	12	54,900	-	9	9	9	9	9	9	8	8	8	8	0	0	0	0
5,640	1,599	4,840,488	-	1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202	1,202
2,742	1,679	10,075	-	1,262	-	-	-	-	-	-	-	-	-	-	-	-	-
246	53	(47,679)	-	40	38	38	38	38	38	38	38	32	31	31	31	29	29
10	4,881	(58,400)	-	3,670	-	-	-	-	-	-	-	-	-	-	-	-	-
5	251	836,260	-	189	189	189	189	189	189	189	189	189	189	189	189	-	-
12	2,888	31,557	-	2,171	-	-	-	-	-	-	-	-	-	-	-	-	-
1	3	19,155	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3	2	11	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
9,293	5,691	34,146	-	4,279	-	-	-	-	-	-	-	-	-	-	-	-	-
22	20,765	376,265	-	15,613	-	-	-	-	-	-	-	-	-	-	-	-	-
7	6	25	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
4	271	2,963	-	204	-	-	-	-	-	-	-	-	-	-	-	-	-
42	617	2,278,457	464	464	464	464	464	419	348	182	175	175	172	138	87	87	87
43	58	133,740	53	53	53	44	44	44	4	4	4	4	4	4	-	-	-
9	47	226,586	47	47	47	47	47	-	-	-	-	-	-	-	-	-	-
1	180	187,365	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
(1,208)	(787)	(1,424,169)	(328)	(328)	(328)	(328)	(328)	(328)	(328)	(328)	(328)	(328)	(328)	(328)	(328)	(328)	(328)
3,213	5	93,200	4	4	4	4	4	4	2	2	2	1	0	0	0	0	0
323	1	10,051	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0

																Net Verified Annual Energy Savings at the End-User Level (kWh)		
2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2011	2012	2013	2014
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,890,220	4,890,180	4,693,914
640	176	137	137	137	137	-	-	-	-	-	-	-	-	-	-	24,392,637	24,288,756	24,131,826
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	931,521	931,521	931,521
97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	247,001	247,001	247,001
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30,332	30,332	30,332
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	430,436	430,436	430,436
8	8	2	2	2	2	-	-	-	-	-	-	-	-	-	-	1,051,579	1,051,579	1,051,579
0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54,900	54,900	54,900
1,202	1,202	1,202	1,202	909	-	-	-	-	-	-	-	-	-	-	-	2,016,291	2,016,291	2,016,291
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,075	-	-
25	24	24	24	24	24	0	-	-	-	-	-	-	-	-	-	261,837	261,837	261,837
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88,449	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	418,130	418,130	418,130
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31,557	-	-
3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	17,296	17,296	17,296
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34,146	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	376,265	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,963	-	-
26	4	4	4	4	-	-	-	-	-	-	-	-	-	-	1,702,657	1,702,657	1,702,657	1,702,657
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124,183	124,183	123,614	103,162
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	226,586	226,586	226,586	226,586
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93,683	93,683	93,683	93,683
(328)	(328)	(328)	(258)	-	-	-	-	-	-	-	-	-	-	-	(593,233)	(593,233)	(593,233)	(593,233)
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85,731	85,731	85,731	85,731
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,824	10,824	10,824	10,824

2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
3,837,661	3,837,428	853,403	853,403	845,458	845,458	845,458	726,395	726,395	16,391	16,391	16,391	-
23,935,785	23,935,785	23,037,690	22,455,199	22,455,199	21,163,793	13,698,164	12,836,678	12,737,200	3,822,451	3,263,749	3,263,749	428,146
931,521	-	-	-	-	-	-	-	-	-	-	-	-
247,001	247,001	247,001	247,001	247,001	247,001	247,001	247,001	247,001	247,001	247,001	247,001	-
29,954	-	-	-	-	-	-	-	-	-	-	-	-
429,719	276,505	-	-	-	-	-	-	-	-	-	-	-
1,051,579	945,302	768,666	524,309	523,219	523,219	265,755	197,225	191,096	191,096	177,754	177,754	175,323
54,900	54,075	54,075	25,464	25,323	25,323	25,323	4,113	3,312	3,312	2,846	2,846	2,741
2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291	2,016,291
-	-	-	-	-	-	-	-	-	-	-	-	-
236,273	235,659	235,659	228,576	227,170	109,776	109,119	104,420	104,420	99,283	99,283	64,858	64,022
-	-	-	-	-	-	-	-	-	-	-	-	-
418,130	418,130	418,130	418,130	418,130	418,130	418,130	418,130	418,130	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
17,296	17,296	17,296	17,296	17,296	17,296	17,296	17,296	17,296	17,296	17,296	17,296	17,296
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,702,657	1,530,308	1,276,471	756,134	726,513	726,513	690,550	593,305	273,973	273,973	273,973	236,314	14,159
103,162	102,817	11,875	11,875	11,875	11,875	9,420	9,420	-	-	-	-	-
226,586	-	-	-	-	-	-	-	-	-	-	-	-
93,683	93,683	93,683	93,683	93,683	93,683	93,683	93,683	93,683	93,683	93,683	-	-
(593,233)	(593,233)	(593,233)	(593,233)	(593,233)	(593,233)	(593,233)	(593,233)	(593,233)	(593,233)	(593,233)	(593,233)	(593,233)
85,731	77,904	42,060	42,051	42,051	9,277	7,794	7,157	7,157	5,939	5,939	5,932	-
10,824	9,889	6,067	6,059	6,059	2,146	969	705	705	633	633	627	-

2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-	-	-	-	-	-
365,474	365,474	365,474	365,474	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
49,192	49,192	49,192	49,192	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
2,016,291	2,016,291	1,753,822	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
64,022	64,022	64,022	64,022	3,165	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
17,296	17,296	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
14,159	14,159	14,159	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
(593,233)	(531,205)	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

Ontario Energy Board

Supporting Documentati
2013 LDC Persistence Savings Resu

Legend

User Inputs (Green)	
Instructions (Grey)	

Table 7-c. 2013 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2013 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

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																	2011	2012	2013
	1	LDC	Business	Energy Audit Funding	Enersourc	Commerci	EE	2012	Dx		N/A	Audit	9	47	226,586		-	47	47
	2	LDC	Business	Energy Audit Funding	Enersourc	Commerci	EE	2013	Dx		N/A	Audit	11	148	806,418		-	-	97
	3	LDC	Business	DR-3	Enersourc	Commerci	DR	2013	Dx		N/A	Facilities	7	-	-		-	-	1,079
	4	LDC	Business	Retrofit	Enersourc	Commerci	EE	2012	Dx		N/A	Projects	40	567	5,250,452		-	419	419
	5	LDC	Business	Retrofit	Enersourc	Commerci	EE	2013	Dx		N/A	Projects	547	5,817	31,277,603		-	-	4,348
	6	LDC	Business	Small Business Lighting	Enersourc	Commerci	EE	2012	Dx		N/A	Projects	2	4	17,773		-	4	4
	7	LDC	Business	Small Business Lighting	Enersourc	Commerci	EE	2013	Dx		N/A	Projects	1248	1,263	4,147,308		-	-	1,193
	8	LDC	Consumer	Annual Coupons	Enersourc	Residentia	EE	2013	Dx		Custom lo	measures	13621	18	268,660		-	-	20
	9	LDC	Consumer	Appliance Exchange	Enersourc	Residentia	EE	2013	Dx		Dehumidi	Appliance	89	35	62,470		-	-	18
	10	LDC	Consumer	Appliance Retirement	Enersourc	Residentia	EE	2013	Dx		N/A	Appliance	575	79	524,800		-	-	37
	11	LDC	Consumer	Bi-Annual Retailer Events	Enersourc	Residentia	EE	2013	Dx		Custom lo	measures	37096	45	645,567		-	-	46
	12	LDC	Consumer	Home Assistance Program	Enersourc	Residentia	EE	2013	Dx		N/A	Projects C	240	20	198,590		-	-	20
	13	LDC	Consumer	HVAC	Enersourc	Residentia	EE	2013	Dx		Blended L	Equipmen	6174	2,655	4,620,192		-	-	1,289
	14	LDC	Consumer	HVAC	Enersourc	Residentia	EE	2011	Dx		Blended L	Equipmen	2	1	1,488		1	1	1
	15	LDC	Consumer	HVAC	Enersourc	Residentia	EE	2012	Dx		Blended L	Equipmen	140	61	105,147		-	27	27
	16	LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2006	Dx		N/A	Devices	33	-	-		-	-	19
	17	LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2007	Dx		N/A	Devices	869	-	-		-	-	493
	18	LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2008	Dx		N/A	Devices	794	-	-		-	-	450
	19	LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2009	Dx		N/A	Devices	1,060	-	-		-	-	601
	20	LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2010	Dx		N/A	Devices	1,446	-	-		-	-	820
	21	LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2011	Dx		N/A	Devices	512	-	-		-	-	290
	22	LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2012	Dx		N/A	Devices	233	-	-		-	-	132
	23	LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2013	Dx		N/A	Devices	6,151	-	-		-	-	3,486
	24	LDC	Consumer	peaksaverPLUS (IHD)	Enersourc	Residentia	DR	2012	Dx		N/A	Devices	584	-	-		-	-	-
	25	LDC	Consumer	peaksaverPLUS (IHD)	Enersourc	Residentia	DR	2013	Dx		N/A	Devices	9,841	-	-		-	-	-
	26	LDC	Industrial	DR-3	Enersourc	Industrial	DR	2013	Dx		N/A	Facilities	18	-	-		-	-	17,139
	27	LDC	Industrial	Energy Manager	Enersourc	Industrial	EE	2013	Dx		N/A		20	1,083	4,180,521		-	-	974
Informatio	28	Non-LDC	Business	peaksaverPLUS	Enersourc	Commerci	DR	2007	Dx		N/A	Devices	7	-	-		-	-	4
Informatio	29	Non-LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2006	Dx		N/A	Devices	133	-	-		-	-	75
Informatio	30	Non-LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2007	Dx		N/A	Devices	2170	-	-		-	-	1,230
Informatio	31	Non-LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2008	Dx		N/A	Devices	1468	-	-		-	-	832
Informatio	32	Non-LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2009	Dx		N/A	Devices	1602	-	-		-	-	908
Informatio	33	Non-LDC	Consumer	peaksaverPLUS	Enersourc	Residentia	DR	2010	Dx		N/A	Devices	1681	-	-		-	-	953
Informatio	34	Non-LDC	Industrial	DR-3	Enersourc	Industrial	DR	2013	Dx		N/A	Facilities	5	-	-		-	-	1,651
	35	LDC	Consumer	Appliance Retirement	Enersourc	Residentia	EE	2013	Dx		N/A	Appliance	1	-	1,000		-	-	0
	36	LDC	Consumer	HVAC	Enersourc	Residentia	EE	2012	Dx		Blended L	Equipmen	1	-	1,000		-	0	0
	etc.																		

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Savings at the End-User Level (kW)

2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
47	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
97	97	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
413	385	385	362	360	360	347	337	311	309	147	129	129	94	9	8	8	8	-	-	-	-	-	-
4,258	4,189	4,187	3,943	3,870	3,870	3,860	3,543	3,082	2,447	2,367	1,093	722	722	623	198	192	192	192	-	-	-	-	-
4	1	1	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,193	1,138	949	284	277	277	273	273	273	263	185	5	5	5	-	-	-	-	-	-	-	-	-	-
20	20	17	17	17	17	17	13	13	10	10	10	10	10	10	10	6	6	6	-	-	-	-	-
18	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	37	37	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	44	35	35	35	35	35	30	30	22	14	14	14	14	14	12	7	7	7	-	-	-	-	-
19	19	18	18	18	18	18	13	13	13	13	12	12	6	6	6	6	6	6	1	-	-	-	-
1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,289	1,005	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	-	-	-	-	-	-	-	-
27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	21	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
888	888	885	724	25	25	25	25	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-

				Net Verified Annual Energy Savings at the End-User Level (kWh)												
2038	2039	2040		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
-	-	-		-	226,586	226,586	226,586	226,586	-	-	-	-	-	-	-	-
-	-	-		-	-	532,958	532,958	532,958	532,958	-	-	-	-	-	-	-
-	-	-		-	-	17,169	-	-	-	-	-	-	-	-	-	-
-	-	-		-	3,651,011	3,651,011	3,632,559	3,547,963	3,547,963	3,473,118	3,461,339	3,461,339	3,405,749	3,330,158	3,125,886	3,105,619
-	-	-		-	-	23,178,167	22,859,494	22,613,362	22,605,820	21,805,032	21,449,602	21,449,602	21,379,475	20,317,723	17,938,523	14,390,381
-	-	-		-	16,743	16,743	16,743	5,278	5,278	505	505	505	505	505	505	505
-	-	-		-	-	3,914,521	3,914,521	3,709,133	3,004,016	962,286	946,790	946,790	942,977	942,977	942,977	849,950
-	-	-		-	-	302,637	302,637	290,974	246,515	246,515	246,515	246,515	246,310	179,109	179,109	162,854
-	-	-		-	-	32,880	32,880	32,880	32,880	-	-	-	-	-	-	-
-	-	-		-	-	247,499	247,499	247,499	247,191	144,522	-	-	-	-	-	-
-	-	-		-	-	674,564	674,564	633,920	495,212	495,212	495,212	495,212	494,628	415,954	415,954	361,947
-	-	-		-	-	198,590	191,464	190,816	172,271	165,589	158,907	156,101	155,096	69,014	68,868	68,191
-	-	-		-	-	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223
-	-	-		900	900	900	900	900	900	900	900	900	900	900	900	900
-	-	-		-	51,626	51,626	51,626	51,626	51,626	51,626	51,626	51,626	51,626	51,626	51,626	51,626
-	-	-		-	-	45	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	1,583	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	1,431	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	1,968	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	2,736	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	888	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	429	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	1,126	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	416,174	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	3,762,469	2,058,621	2,058,621	2,025,411	1,119,420	25,920	25,920	25,920	25,920	25,920	25,920
-	-	-		-	-	7	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	212	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	4,009	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	2,653	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	3,160	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	3,279	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	63,912	-	-	-	-	-	-	-	-	-	-
-	-	-		-	-	240	240	240	240	130	-	-	-	-	-	-
-	-	-		-	326	326	326	326	326	326	326	326	326	326	326	326

2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,156,755	2,099,845	2,099,845	1,506,187	32,758	32,104	32,104	32,104	-	-	-	-	-	-	-	-	-
13,808,924	6,318,932	4,998,332	4,998,332	4,121,411	461,408	447,483	447,483	447,483	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
557,162	5,097	5,097	5,097	-	-	-	-	-	-	-	-	-	-	-	-	-
160,535	160,535	159,875	159,875	159,740	154,803	90,866	90,866	90,866	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
232,697	232,697	220,417	220,417	218,840	188,896	110,877	110,877	110,877	-	-	-	-	-	-	-	-
68,191	66,811	66,811	19,009	18,942	18,942	18,942	18,942	18,942	4,420	-	-	-	-	-	-	-
2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	2,205,223	1,951,331	-	-	-	-	-	-	-	-	-
900	900	900	900	900	760	-	-	-	-	-	-	-	-	-	-	-
51,626	51,626	51,626	51,626	51,626	51,626	45,799	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	326	326	326	326	326	303	-	-	-	-	-	-	-	-	-	-

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-d. 2014 Persisting Savings

Go to Tab 4.

1. LDCs are requested to paste a copy of the 2014 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2014 programs that become available in future evaluation audits are included in the 2014 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year	Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)		Net Verified Annual I	
																2011	2012
1	LDC	Business	Direct Install Lighting	Enersource Hydro Mississauga Inc.	Commerci	EE	2014	Dx		n/a	Projects	1468	1,347,731	4,679,900,267		-	-
2	LDC	Business	Energy Audit	Enersource Hydro Mississauga Inc.	Commerci	EE	2011	Dx		n/a	Audit	1	2,221	43,993,462		2	2
3	LDC	Business	Energy Audit	Enersource Hydro Mississauga Inc.	Commerci	EE	2012	Dx		n/a	Audit	3	8,763	130,189,583		-	9
4	LDC	Business	Energy Audit	Enersource Hydro Mississauga Inc.	Commerci	EE	2012	Dx		n/a	Audit	1	6,381	94,800,634		-	6
5	LDC	Business	Energy Audit	Enersource Hydro Mississauga Inc.	Commerci	EE	2013	Dx		n/a	Audit	1	64	706,972		-	-
6	LDC	Business	Energy Audit	Enersource Hydro Mississauga Inc.	Commerci	EE	2013	Dx		n/a	Audit	5	44,093	484,829,029		-	-
7	LDC	Business	Energy Audit	Enersource Hydro Mississauga Inc.	Commerci	EE	2014	Dx		n/a	Audit	64	855,484	4,177,508,484		-	-
8	LDC	Business	High Performance New Construction	Enersource Hydro Mississauga Inc.	Commerci	EE	2013	Dx		n/a		6	97,608	423,564,471		-	-
9	LDC	Business	High Performance New Construction	Enersource Hydro Mississauga Inc.	Commerci	EE	2014	Dx		n/a		7	120,249	204,719,638		-	-
10	LDC	Business	Retrofit	Enersource Hydro Mississauga Inc.	Commerci	EE	2012	Dx		n/a	Projects	22	353,640	2,575,756,110		-	354
11	LDC	Business	Retrofit	Enersource Hydro Mississauga Inc.	Commerci	EE	2013	Dx		n/a	Projects	94	849,122	18,621,135,580		-	-
12	LDC	Business	Retrofit	Enersource Hydro Mississauga Inc.	Commerci	EE	2014	Dx		n/a	Projects	840	6,001,740	41,820,980,760		-	-
13	LDC	Consumer	Appliance Exchange	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		Dehumidi	Appliance	127	26,314	46,918,865		-	-
14	LDC	Consumer	Appliance Retirement	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		n/a	Appliance	4	467	417,632		-	-
15	LDC	Consumer	Appliance Retirement	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		n/a	Appliance	2	354	631,168		-	-
16	LDC	Consumer	Appliance Retirement	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		n/a	Appliance	146.1571	10,178	73,694,456		-	-
17	LDC	Consumer	Appliance Retirement	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		n/a	Appliance	320.3926	19,221	130,785,970		-	-
18	LDC	Consumer	Bi-Annual Retailer Event	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		Custom lo	measures	189443.2	315,823	4,825,760,377		-	-
19	LDC	Consumer	Conservation Instant Coupon Booklet	Enersource Hydro Mississauga Inc.	Residentia	EE	2013	Dx		Custom lo	measures	41.23268	100	926,000		-	-
20	LDC	Consumer	Conservation Instant Coupon Booklet	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		Custom lo	measures	42847.59	86,661	1,166,247,497		-	-
21	LDC	Home Assist	Home Assistance Program	Enersource Hydro Mississauga Inc.	Residentia	EE	2012	Dx		n/a	Homes	30	7,133	94,781,050		7	7
22	LDC	Home Assist	Home Assistance Program	Enersource Hydro Mississauga Inc.	Residentia	EE	2013	Dx		n/a	Homes	219	55,628	532,566,910		-	-
23	LDC	Home Assist	Home Assistance Program	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		n/a	Homes	1003	59,212	1,444,985,102		-	-
24	LDC	Consumer	HVAC Incentives	Enersource Hydro Mississauga Inc.	Residentia	DR	2013	Dx		Blended L	Equipmen	316	68,383	240,183,246		-	-
25	LDC	Consumer	HVAC Incentives	Enersource Hydro Mississauga Inc.	Residentia	EE	2012	Dx		n/a	Equipmen	4	1,138	6,615,089		-	1
26	LDC	Consumer	HVAC Incentives	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		n/a	Equipmen	7039	1,397,824	2,581,152,985		-	-
27	LDC	Consumer	Residential New Construction	Enersource Hydro Mississauga Inc.	Residentia	EE	2014	Dx		n/a	Homes	2	87	1,304,100		-	-
28	LDC	Other	LDC Pilots	Enersource Hydro Mississauga Inc.	Commerci	EE	2014	Dx		n/a	n/a	1	-	-		-	-
29	LDC	Other	Time-of-Use Savings	Enersource Hydro Mississauga Inc.	Other	DR	2014	Dx		n/a	n/a		3,830,620	-		-	-
30	non-Tier 1	Business	Commercial Demand Response	Enersource Hydro Mississauga Inc.	Commerci	DR	2007	Dx		n/a	Devices	7	-	-		-	-
31	non-Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2006	Dx		n/a	Devices	111	-	-		-	-
32	non-Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2007	Dx		n/a	Devices	1877	-	-		-	-
33	non-Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2008	Dx		n/a	Devices	1294	-	-		-	-
34	non-Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2009	Dx		n/a	Devices	1381	-	-		-	-
35	non-Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2010	Dx		n/a	Devices	1451	-	-		-	-
36	non-Tier 1	Industrial	Demand Response 3	Enersource Hydro Mississauga Inc.	Industrial	DR	2014	Dx		n/a	Facilities	5	-	-		-	-
37	Tier 1	Business	Demand Response 3	Enersource Hydro Mississauga Inc.	Commerci	DR	2014	Dx		n/a	Facilities	7	-	-		-	-
38	Tier 1	Business	Commercial Demand Response	Enersource Hydro Mississauga Inc.	Commerci	DR	2014	Dx		n/a	Devices	432	-	-		-	-
39	Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2006	Dx		n/a	Devices	43	-	-		-	-
40	Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2007	Dx		n/a	Devices	982	-	-		-	-
41	Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2008	Dx		n/a	Devices	836	-	-		-	-
42	Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2009	Dx		n/a	Devices	1221	-	-		-	-
43	Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2010	Dx		n/a	Devices	1603	-	-		-	-
44	Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2011	Dx		n/a	Devices	483	-	-		-	-
45	Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2012	Dx		n/a	Devices	257	-	-		-	-
46	Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2013	Dx		n/a	Devices	6100	-	-		-	-
47	Tier 1	Consumer	Residential Demand Response	Enersource Hydro Mississauga Inc.	Residentia	DR	2014	Dx		n/a	Devices	3209	-	-		-	-
48	Tier 1	Industrial	Demand Response 3	Enersource Hydro Mississauga Inc.	Industrial	DR	2014	Dx		n/a	Facilities	22	-	-		-	-
49	Tier 1	Industrial	Energy Managers	Enersource Hydro Mississauga Inc.	Industrial	EE	2012	Dx		n/a		0	-	-		-	-
50	Tier 1	Industrial	Energy Managers	Enersource Hydro Mississauga Inc.	Industrial	EE	2013	Dx		n/a		-4	943,574	17,970,586,860		-	-
51	Tier 1	Industrial	Energy Managers	Enersource Hydro Mississauga Inc.	Industrial	EE	2014	Dx		n/a		13	477,952	3,893,879,303		-	-
etc.																	

Peak Demand Savings at the End-User Level (kW)

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
-	1,348	1,322	1,288	744	744	744	744	744	744	744	736	327	7	7	7	-	-	-	-	-	-	-	-	-
2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	44	44	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	855	855	855	855	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
98	98	98	98	98	98	98	98	98	98	89	89	86	86	76	-	-	-	-	-	-	-	-	-	-
-	120	120	120	120	120	120	120	120	110	110	101	101	101	101	101	-	-	-	-	-	-	-	-	-
354	354	347	347	307	304	304	251	229	178	161	98	98	98	70	0	0	0	0	-	-	-	-	-	-
852	849	848	848	819	811	811	811	757	694	617	617	477	466	466	383	23	18	18	18	-	-	-	-	-
-	6,002	5,994	5,994	5,837	5,837	5,808	5,536	5,536	5,234	4,080	2,885	2,820	1,744	1,691	1,691	1,369	333	333	333	333	-	-	-	-
-	26	26	26	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	10	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	19	19	19	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	316	276	255	255	255	255	255	255	255	238	216	183	183	182	182	182	148	148	148	148	-	-	-	-
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
-	87	82	79	79	79	79	79	79	79	70	51	49	49	49	49	48	22	22	22	22	-	-	-	-
7	7	7	7	7	7	7	7	6	6	6	6	6	6	5	4	4	4	4	4	0	-	-	-	-
56	56	56	55	54	54	54	54	50	49	49	49	49	49	45	45	45	45	45	45	1	-	-	-	-
-	59	59	55	54	52	52	52	52	36	35	34	34	32	32	6	5	5	5	5	5	3	-	-	-
68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	56	-	-	-	-	-	-
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-
-	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,255	-	-	-	-	-
-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	3,831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	669	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,226	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	904	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	508	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	631	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	828	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	3,153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	1,658	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	17,243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
891	944	944	943	1,096	1,795	1,795	1,795	1,795	1,795	1,719	1,744	829	829	829	821	821	821	821	821	-	-	-	-	-
-	478	385	290	290	290	290	290	290	290	290	281	281	75	75	75	-	-	-	-	-	-	-	-	-

			Net Verified Annual Energy Savings at the End-User Level (kWh)												
2038	2039	2040	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
-	-	-	-	-	-	4,679,900	4,579,621	4,449,982	2,705,295	2,705,295	2,705,295	2,705,295	2,705,295	2,705,295	2,705,295	2,637,606
-	-	-	10,998	10,998	10,998	10,998	-	-	-	-	-	-	-	-	-	-
-	-	-	-	43,397	43,397	43,397	43,397	-	-	-	-	-	-	-	-	-
-	-	-	-	31,600	31,600	31,600	31,600	-	-	-	-	-	-	-	-	-
-	-	-	-	-	353	353	353	353	-	-	-	-	-	-	-	-
-	-	-	-	-	242,415	242,415	242,415	242,415	-	-	-	-	-	-	-	-
-	-	-	-	-	-	4,177,508	4,177,508	4,177,508	4,177,508	-	-	-	-	-	-	-
-	-	-	-	-	211,782	211,782	211,782	211,782	211,782	211,782	211,782	211,782	211,782	211,782	158,838	158,838
-	-	-	-	-	-	204,720	204,720	204,720	204,720	204,720	204,720	204,720	204,720	175,530	175,530	116,970
-	-	-	-	1,134,687	1,134,687	1,134,687	1,111,471	1,111,471	986,593	973,698	973,698	797,460	709,744	512,221	470,708	79,473
-	-	-	-	-	9,316,522	9,304,613	9,301,615	9,301,615	9,199,956	9,143,752	9,143,752	8,876,305	8,522,280	8,112,566	5,054,523	2,836,997
-	-	-	-	-	-	41,820,981	41,792,521	41,792,521	41,240,745	41,240,745	41,140,977	39,030,198	39,030,198	37,213,808	27,982,620	18,261,803
-	-	-	-	-	-	46,919	46,919	46,919	46,919	-	-	-	-	-	-	-
-	-	-	-	-	-	418	418	418	-	-	-	-	-	-	-	-
-	-	-	-	-	-	631	631	631	631	-	-	-	-	-	-	-
-	-	-	-	-	-	73,694	73,694	73,694	73,694	-	-	-	-	-	-	-
-	-	-	-	-	-	130,786	130,786	130,786	130,786	130,786	-	-	-	-	-	-
-	-	-	-	-	-	4,825,760	4,186,296	3,853,043	3,853,043	3,853,043	3,853,043	3,853,043	3,851,374	3,851,374	3,581,992	3,482,378
-	-	-	-	-	926	926	880	761	761	761	761	761	639	639	607	607
-	-	-	-	-	-	1,166,247	1,089,769	1,052,672	1,052,672	1,052,672	1,052,672	1,052,672	1,050,742	1,050,742	906,024	819,145
-	-	-	47,874	47,874	47,874	47,412	47,370	44,621	41,395	40,188	38,778	38,186	22,660	22,660	22,580	22,580
-	-	-	-	-	273,584	266,606	265,961	249,158	243,290	237,427	234,199	232,774	154,230	153,858	151,254	151,254
-	-	-	-	-	-	724,043	720,942	644,369	618,486	589,778	589,778	583,221	580,458	265,860	265,372	256,270
-	-	-	-	-	120,092	120,092	120,092	120,092	120,092	120,092	120,092	120,092	120,092	120,092	120,092	120,092
-	-	-	-	2,205	2,205	2,205	2,205	2,205	2,205	2,205	2,205	2,205	2,205	2,205	2,205	2,205
-	-	-	-	-	-	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153
-	-	-	-	-	-	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304
-	-	-	-	-	-	184,241	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	16	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	244	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	169	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	186	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	185	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	112	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	94	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	141	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	169	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	27	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	647	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	8,343,933	9,626,653	9,626,653	9,624,763	10,523,554	11,599,054	11,599,054	11,599,054	11,590,954	11,590,954	10,995,300	11,021,220
-	-	-	-	-	-	3,893,879	2,676,503	2,372,464	2,372,464	2,372,464	2,372,464	2,372,464	2,372,464	2,372,464	2,372,464	2,130,970

2025	2026	2027	2028	2029	2030	2031	2032	2033
1,033,658	6,796	6,796	6,796	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
136,610	136,610	106,054	-	-	-	-	-	-
116,970	116,970	116,970	116,970	-	-	-	-	-
79,473	79,473	57,163	1,180	1,180	1,180	1,180	-	-
1,913,392	1,872,346	1,872,346	1,523,484	53,188	44,222	44,222	44,222	-
17,247,754	10,162,267	9,976,459	9,976,459	7,943,957	767,515	767,515	767,515	767,515
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
2,944,728	2,944,728	2,902,560	2,902,560	2,898,456	2,356,254	2,356,254	2,356,254	2,356,254
607	607	607	607	320	320	320	320	-
774,664	774,664	770,031	770,031	768,932	346,444	346,444	346,444	346,444
21,646	21,646	12,871	12,601	12,601	12,601	12,601	12,601	1,899
149,516	149,516	117,512	116,752	116,752	116,752	116,752	116,752	5,547
256,270	249,561	249,561	31,976	28,288	28,288	28,288	28,288	28,288
120,092	120,092	120,092	120,092	120,092	120,092	109,258	-	-
2,205	2,205	2,205	2,205	2,205	2,205	-	-	-
2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,581,153	2,453,313	-
1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304	1,304
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,666,620	1,666,620	1,666,620	1,521,900	1,521,900	1,521,900	1,521,900	1,521,900	-
2,130,970	325,728	325,728	325,728	-	-	-	-	-

Legend	
	User Inputs (Green)
	Instructions (Grey)

Table 7-e. 2015 Persisting Savings

Go to Tab 5.

1. LDCs are requested to paste a copy of the 2015 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2015 programs that become available in future evaluation audits are included in the 2015 form below.

#	Portfolio	Program	Initiative	LDC	Sector	Conservation Resource Type	(Implementation) Year
1		Coupon Initiative					
2		Bi-Annual Retailer Event Initiative					
3		Appliance Retirement Initiative					
4		HVAC Incentives Initiative					
5		Residential New Construction and Major Renovation Initiative					
6		Energy Audit Initiative					
7		Efficiency: Equipment Replacement Incentive Initiative					
8		Direct Install Lighting and Water Heating Initiative					
9		New Construction and Major Renovation Initiative					
10		Existing Building Commissioning Incentive Initiative					
11		Process and Systems Upgrades Initiatives - Project Incentive Initiative					
12		Process and Systems Upgrades Initiatives - Energy Manager Initiative					
13		Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative					
14		Low Income Initiative					
15		Loblaws Pilot					
16		Social Benchmarking Pliot					
17		Conservation Fund Pilot - SEG					
etc.							

2015 LDC Persistence Savings Results from IESO

Tx (Transmission) or Dx (Distribution) Connected	Status	Notes	Activity Unit Name	Activity / Participation (i.e. # of appliances)	Gross Summer Peak Demand Savings (kW)	Gross Energy Savings (kWh)	Net Verified Annual Peak Demand Savings at the End-User Level (kW)						
							2011	2012	2013	2014	2015	2016	2017
											141	140	140
											248	244	244
											9	9	9
											1,355	1,355	1,355
											-	-	-
											762	762	762
											6,865	6,865	6,775
											810	778	441
											305	305	305
											-	-	-
											-	-	-
											1,232	1,146	1,146
											-	-	-
											30	26	26
											14	14	14
											-	-	-
											499	-	-

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
140	140	140	140	140	140	140	124	124	124	124	124	124	46	46
244	244	244	244	244	244	244	206	195	195	194	194	194	72	72
9	5	-	-	-	-	-	-	-	-	-	-	-	-	-
1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355	1,355
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
762	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6,775	6,775	6,715	6,396	6,396	6,101	5,063	2,324	2,148	1,246	1,244	1,244	939	327	327
441	441	441	441	441	441	441	433	193	-	-	-	-	-	-
305	305	305	305	305	305	305	305	305	305	305	246	5	5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,146	1,127	1,127	1,107	1,089	1,089	342	324	35	23	23	23	23	23	23
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	25	25	25	25	19	19	19	19	18	18	2	2	2	2
14	14	14	14	14	14	14	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

									Net Verified Annual Energy Savings at the End-User Level (kWh)						
2033	2034	2035	2036	2037	2038	2039	2040		2011	2012	2013	2014	2015	2016	2017
46	46	-	-	-	-	-	-						2,173,737	2,154,375	2,154,375
72	72	-	-	-	-	-	-						3,679,485	3,614,091	3,614,091
-	-	-	-	-	-	-	-						60,261	60,261	60,261
1,229	-	-	-	-	-	-	-						2,584,003	2,584,003	2,584,003
-	-	-	-	-	-	-	-						-	-	-
-	-	-	-	-	-	-	-						3,573,385	3,573,385	3,573,385
327	327	-	-	-	-	-	-						45,320,196	45,320,196	45,034,080
-	-	-	-	-	-	-	-						3,360,796	3,220,399	1,926,026
-	-	-	-	-	-	-	-						931,231	931,231	931,231
-	-	-	-	-	-	-	-						-	-	-
-	-	-	-	-	-	-	-						-	-	-
-	-	-	-	-	-	-	-						4,040,545	3,202,504	3,202,504
-	-	-	-	-	-	-	-						-	-	-
2	2	1	-	-	-	-	-						343,883	274,624	264,686
-	-	-	-	-	-	-	-						183,513	183,513	183,513
-	-	-	-	-	-	-	-						-	-	-
-	-	-	-	-	-	-	-						6,899,972	-	-

2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
2,154,375	2,154,375	2,154,375	2,154,375	2,153,946	2,153,946	2,153,946	1,988,960	1,982,034	1,982,034
3,614,091	3,614,091	3,614,091	3,614,091	3,612,200	3,612,200	3,612,200	3,330,966	3,159,456	3,159,456
60,261	37,035	-	-	-	-	-	-	-	-
2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,584,003
-	-	-	-	-	-	-	-	-	-
3,573,385	-	-	-	-	-	-	-	-	-
45,032,593	45,032,593	44,840,465	42,808,250	42,808,250	41,594,868	34,763,280	16,782,984	15,335,854	8,714,664
1,925,910	1,925,910	1,925,910	1,925,910	1,925,910	1,925,910	1,925,910	1,847,860	754,172	-
931,231	931,231	931,231	931,231	931,231	930,086	930,086	930,086	930,086	930,086
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
3,202,504	3,095,771	3,095,771	3,013,834	2,972,509	2,972,509	1,392,934	1,330,725	475,013	58,425
-	-	-	-	-	-	-	-	-	-
254,747	253,557	253,557	249,106	248,306	141,134	140,918	139,103	139,103	136,443
183,513	183,513	183,513	183,513	183,513	183,513	183,513	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
1,974,981	1,974,981	1,974,178	740,712	740,712	740,712	740,712	-	-	-	-	-	-
3,091,498	3,091,498	3,084,291	1,142,616	1,142,616	1,142,616	1,142,616	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
2,584,003	2,584,003	2,584,003	2,584,003	2,584,003	2,471,373	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
8,708,922	8,708,922	6,135,314	855,240	855,240	855,240	855,240	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
930,086	601,904	33,362	32,934	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
58,425	58,425	58,425	58,425	58,425	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
136,443	7,880	7,612	7,612	7,612	7,612	7,612	5,465	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

Table 7-f. 2016 Persisting Savings

1. LDCs are requested to paste a copy of the 2016 "LDC CDM Program Results Persistence Report" in the space below as it relates to the calculation of LRAMVA.

2. Please ensure that verified adjustments to 2016 programs that become available in future evaluation audits are included in the 2016 form below.

#	Portfolio	Program	Initiative	(Implementation) Year						
					2015	2016	2017	2018	2019	2020
1			Save on Energy Audit Funding Program	2015 Adjustment	17	17	17	17	17	17
2			Save on Energy Retrofit Program	2015 Adjustment	45	45	45	45	45	45
3			Save on Energy Retrofit Program - P4P	2015 Adjustment	341	296	296	296	296	296
4			Coupon Initiative	2015 Adjustment	32	32	32	32	32	32
5			Bi-Annual Retailer Event Initiative	2015 Adjustment	2	2	2	2	2	2
6			HVAC Incentives Initiative	2015 Adjustment	57	57	57	57	57	57
7			Energy Audit Initiative	2015 Adjustment	1,229	1,229	1,229	1,229	2,127	2,127
8			Efficiency: Equipment Replacement Incentive Initiative	2015 Adjustment	462	462	460	458	458	458
9			New Construction and Major Renovation Initiative	2015 Adjustment	200	200	200	200	200	200
10			Process and Systems Upgrades Initiatives - Project Incentive Initiative	2015 Adjustment	272	272	61	61	61	61
11			Save on Energy Coupon Program	2016		1,258	1,258	1,258	1,258	1,258
12			Save on Energy Heating & Cooling Program	2016		1,255	1,255	1,255	1,255	1,255
13			Save on Energy Home Assistance Program	2016		26	26	26	26	26
14			Save on Energy Audit Funding Program	2016		27	27	27	27	27
15			Save on Energy Retrofit Program	2016		533	510	510	510	510
16			Save on Energy High Performance New Construction Program	2016		15	15	15	15	15
17			Save on Energy Energy Manager Program	2016		53	53	10	10	10
18			Save on Energy Retrofit Program - P4P	2016		4,244	4,197	4,197	4,197	4,197
19			Save on Energy Process & Systems Upgrades Program - P4P	2016		1,596	1,596	1,596	1,596	1,596
20			Truckload Event Pilot Program	2016		67	67	67	67	67
21			Home Depot Home Appliance Market Uplift Conservation Fund Pilot Prc	2016						
etc.										

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
17	17	17	17	17	17	17	12	-	-	-	-	-	-	-	-
41	41	41	29	-	-	-	-	-	-	-	-	-	-	-	-
296	296	286	286	286	286	48	48	48	25	25	25	25	25	-	-
32	32	32	32	30	30	30	30	30	30	13	13	13	13	-	-
2	2	2	2	2	2	2	2	2	2	1	1	1	1	-	-
57	57	57	57	57	57	57	57	57	57	57	57	54	-	-	-
2,127	2,127	2,127	2,127	2,127	2,127	2,127	1,489	-	-	-	-	-	-	-	-
419	419	409	247	67	67	60	60	60	50	19	19	19	19	-	-
200	200	200	200	200	200	200	200	87	-	-	-	-	-	-	-
61	61	61	61	61	61	61	61	61	61	61	61	61	61	-	-
1,258	1,258	1,258	1,258	1,253	1,215	1,215	1,215	1,214	1,075	1,075	402	-	-	-	-
1,255	1,255	1,255	1,255	1,255	1,255	1,255	1,255	1,255	1,255	1,255	1,255	1,255	1,143	-	-
25	25	25	25	23	10	10	9	9	9	9	9	9	9	9	-
27	27	27	27	27	7	-	-	-	-	-	-	-	-	-	-
510	510	510	510	510	510	314	11	11	1	-	-	-	-	-	-
15	15	15	15	15	15	15	15	15	15	5	-	-	-	-	-
10	10	10	10	10	10	10	1	1	1	-	-	-	-	-	-
4,197	4,197	4,197	3,990	3,990	3,983	3,983	1,219	1,219	1,219	472	472	472	472	472	127
1,596	1,596	1,596	1,596	1,596	1,149	1,149	1,149	1,149	1,149	1,078	1,078	1,078	1,078	1,078	-
67	67	67	67	67	67	67	67	57	57	25	25	-	-	-	-

					Net Verified Annual Energy Savings at the End-User Level (kWh)									
2037	2038	2039	2040		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
-	-	-	-						77,834	77,834	77,834	77,834	77,834	77,834
-	-	-	-						210,218	210,218	210,218	210,218	210,218	210,218
-	-	-	-						1,731,152	1,567,230	1,567,230	1,567,230	1,567,230	1,567,230
-	-	-	-						502,885	497,119	497,119	497,119	497,119	497,119
-	-	-	-						38,059	37,613	37,613	37,613	37,613	37,613
-	-	-	-						110,951	110,951	110,951	110,951	110,951	110,951
-	-	-	-						5,766,646	5,766,646	5,766,646	5,766,646	9,340,038	9,340,038
-	-	-	-						2,784,592	2,784,592	2,777,671	2,771,791	2,771,791	2,771,791
-	-	-	-						573,307	573,307	573,307	573,307	573,307	573,307
-	-	-	-						2,462,181	2,462,181	515,382	515,382	515,382	515,382
-	-	-	-							19,370,627	19,370,627	19,370,627	19,370,627	19,370,627
-	-	-	-							4,246,239	4,246,239	4,246,239	4,246,239	4,246,239
-	-	-	-							181,241	181,241	181,241	181,241	181,241
-	-	-	-							210,282	210,282	210,282	210,282	210,282
-	-	-	-							3,976,883	3,812,817	3,812,817	3,812,817	3,812,817
-	-	-	-							82,648	82,648	82,648	82,648	82,648
-	-	-	-							388,603	388,603	123,933	123,933	123,933
127	127	127	127							41,083,220	40,937,376	40,937,376	40,937,376	40,937,376
-	-	-	-							10,957,531	10,957,531	10,957,531	10,957,531	10,957,531
-	-	-	-							1,067,232	1,067,232	1,067,232	1,067,232	1,067,232
										2,993	2,993	2,993	2,993	2,993

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
77,834	77,834	77,834	77,834	77,834	77,834	77,834	54,484	-	-
192,248	192,248	192,248	135,499	-	-	-	-	-	-
1,567,230	1,567,230	1,504,817	1,504,817	1,504,817	1,504,817	127,333	127,333	127,333	19,592
497,119	496,860	496,860	496,860	481,598	480,609	480,609	478,775	478,775	478,122
37,613	37,519	37,519	37,519	31,820	31,560	31,560	30,589	30,589	30,476
110,951	110,951	110,951	110,951	110,951	110,951	110,951	110,951	110,951	110,951
9,340,038	9,340,038	9,340,038	9,340,038	9,340,038	9,340,038	9,340,038	6,538,026	-	-
2,533,149	2,533,149	2,502,350	1,509,208	425,834	424,191	258,684	258,684	258,684	203,789
573,307	573,307	573,307	573,307	573,307	573,307	573,307	573,307	248,762	-
515,382	515,382	515,382	515,382	515,382	515,382	515,382	515,382	515,382	515,382
19,370,627	19,370,627	19,368,117	19,368,117	19,289,639	19,085,447	19,075,538	19,075,538	18,984,666	16,768,121
4,246,239	4,246,239	4,246,239	4,246,239	4,246,239	4,246,239	4,246,239	4,246,239	4,246,239	4,246,239
181,095	181,095	181,095	181,095	159,165	138,594	138,594	137,445	137,445	137,445
210,282	210,282	210,282	210,282	210,282	51,916	-	-	-	-
3,812,817	3,812,817	3,812,817	3,812,817	3,812,817	3,810,062	2,345,955	75,816	75,816	5,229
82,648	82,648	82,648	82,648	82,648	82,648	82,648	82,648	82,648	82,648
123,933	123,933	123,933	123,933	123,933	123,933	123,933	4,177	4,177	4,177
40,937,376	40,937,376	40,937,376	37,498,721	37,498,721	37,425,710	37,425,710	8,340,638	8,340,638	8,340,638
10,957,531	10,957,531	10,957,531	10,957,531	10,957,531	10,395,431	10,395,431	10,395,431	10,395,431	10,395,431
1,067,232	1,067,232	1,067,232	1,067,232	1,067,232	1,067,232	1,067,232	1,067,232	899,727	899,727
2,993	2,993	2,993	2,993	2,993	2,993	2,993	2,993	2,993	2,152

2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
19,592	19,592	19,592	19,592	-	-	-	-	-	-
212,459	212,459	212,459	212,459	-	-	-	-	-	-
12,734	12,734	12,734	12,734	-	-	-	-	-	-
110,951	110,951	108,110	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
19,073	19,073	19,073	19,073	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
515,382	515,382	515,382	515,382	-	-	-	-	-	-
16,768,121	6,409,685	-	-	-	-	-	-	-	-
4,246,239	4,246,239	4,246,239	4,145,814	-	-	-	-	-	-
137,445	137,445	137,445	137,445	137,445	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
29,696	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
1,211,803	1,211,803	1,211,803	1,211,803	1,211,803	192,185	192,185	192,185	192,185	192,185
9,172,458	9,172,458	9,172,458	9,172,458	9,172,458	-	-	-	-	-
391,592	391,592	-	-	-	-	-	-	-	-
2,152	2,152	2,152	-	-	-	-	-	-	-

Energy savings attributed to street lighting project in IESO results

Year	Gross	NTG	Net
2013 SL Savings	7,976,079	64%	5,110,764
2014 using 2016 SL Savings	18,507,361	72%	13,378,448
2015 using 2016 SL Savings	18,507,361	72%	13,378,448

Peak Demand Savings attributed to LED Street Lighting Project

Month	Billed kW	SL billed kW prior LED SL Project	Gross kW Reduction	NTG Ratio	Net kW reduction
Jan-13	9,558.21				
Feb-13	8,637.09				
Mar-13	9,498.45				
Apr-13	9,055.49				
May-13	9,232.32				
Jun-13	8,854.64				
Jul-13	9,023.52				
Aug-13	9,023.37				
Sep-13	8,436.45				
Oct-13	8,569.78				
Nov-13	8,136.28				
Dec-13	8,209.35				
2013 total	**106,234.94**	**110,890**	**4,655**	**64%**	**2,983**
Jan-14	8,064.60				
Feb-14	7,260.75				
Mar-14	7,933.86				
Apr-14	7,554.13				
May-14	7,707.10				
Jun-14	7,460.76				
Jul-14	7,668.58				
Aug-14	7,525.58				
Sep-14	7,223.15				
Oct-14	7,522.82				
Nov-14	6,993.34				
Dec-14	7,330.59				
2014 total	**90,245.24**	**110,890**	**20,645**	**72%**	**14,924**
Jan-15	7,423.43				
Feb-15	6,786.78				
Mar-15	6,968.40				
Apr-15	6,938.28				
May-15	7,193.04				
Jun-15	7,020.96				
Jul-15	7,352.64				
Aug-15	4,871.00				
Sep-15	4,183.96				
Oct-15	4,362.27				
Nov-15	4,277.37				
Dec-15	4,490.52				
2015 total	**71,868.66**	**110,890**	**39,021**	**72%**	**28,207**