



**WATERLOO NORTH HYDRO INC.**

**January 1, 2020 IRM  
Rate Filing**

**EB-2019-0071**

**ED-2002-0575**

# Waterloo North Hydro Inc. Distribution Rate Adjustment Application

## SUMMARY OF APPLICATION

### EB-2019-0071 / ED-2002-0575

IN THE MATTER OF the Ontario Energy Board Act, 1998, S. O. 1998, c. 15, Schedule B of the Energy Competition Act, 1998:

AND IN THE MATTER OF an Application by Waterloo North Hydro Inc. for an order approving just and reasonable rates as set out in this Application in accordance with the Ontario Energy Board's Filing Guidelines for the Adjustments of the Electricity Distribution Rates for January 1, 2020 Distribution Rate Adjustments and PILs, issued for the revised model and instructions and the Addendum to Filing Requirements on July 15, 2019, and in accordance with July 12, 2018 Chapter 3 of the Filing Requirements for Electricity Distribution Rate Applications.

#### Article I.

##### 1.0a Introduction

- 1.1 Waterloo North Hydro Inc. ("WNH") submits this Application and supporting documentation for a rate adjustment and rate riders pursuant to the Ontario Energy Board's Filing Guidelines for January 1, 2019 Distribution Rate Adjustments and PILs, issued for the instructions on July 12, 2018 as well as the revised models and Addendum to Filing Requirements for 2020 Rate Applications issued on July 15, 2019.
  
- 1.2 The utility continues to operate under the authority of a Board of Directors and has been incorporated as "Waterloo North Hydro Inc." under the Ontario *Business Corporations Act* since May 1, 2000. WNH operates under Electricity Distribution Licence ED-2002-0575.

- 1.3 WNH received Board approval on November 26, 2015 for revised rate adjustments, effective January 1, 2016, to its unbundled distribution rates in accordance with the Board's July 16, 2015 Chapter 2 Cost of Service Filing Requirements for Transmission and Distribution Applications, its associated 2016 PILs, Fixed and Volumetric Rate Riders, and adjustment to its Retail Transmission Service Rates [EB-2015-0108].
  
- 1.4 WNH received Board approval on December 8, 2016 for rate adjustments, to be effective and implemented January 1, 2017, to its unbundled distribution rates in accordance with Chapter 3 of the Filing Requirements for Transmission and Distribution Applications and 4th Generation Incentive Regulation Mechanism (IRM4) policies, its associated Fixed and Volumetric Rate Riders and adjustment to its Retail Transmission Service Rates as provided in the Board's model and instructions on July 26, 2016 [EB-2016-0109].
  
- 1.5 WNH received Board approval on December 14, 2017 for rate adjustments, to be effective and implemented January 1, 2018, to its unbundled distribution rates in accordance with Chapter 3 of the Filing Requirements for Transmission and Distribution Applications and 4th Generation Incentive Regulation Mechanism (IRM4) policies, its associated Fixed and Volumetric Rate Riders and adjustment to its Retail Transmission Service Rates as provided in the Board's model and instructions on July 20, 2017 [EB-2017-0080].
  
- 1.6 WNH received Board approval on December 13, 2018 for rate adjustments, to be effective and implemented January 1, 2019, to its unbundled distribution rates in accordance with Chapter 3 of the Filing Requirements for Transmission and Distribution Applications and 4th Generation Incentive Regulation Mechanism (IRM4) policies, its associated Fixed and Volumetric Rate Riders and adjustment to its Retail Transmission Service Rates as provided in the Board's model and instructions on July 18, 2018 [EB-2018-0074].

1.7 In this filing, WNH is seeking approval for rate adjustments, to be effective and implemented January 1, 2020, to its unbundled distribution rates in accordance with Chapter 3 of the Filing Requirements for Electricity Distribution Rate Applications and 4th Generation Incentive Regulation Mechanism (IRM4) policies, its associated Fixed and Volumetric Rate Riders and adjustment to its Retail Transmission Service Rates as provided in the Board's model and instructions on July 12, 2018 as well as the Addendum to Filing Requirements for 2020 Rate Applications and model updates issued on July 15, 2019.

1.8 Contact Information for the 2020 IRM Application:

Alyson Conrad  
Manager of Finance & Regulatory Affairs  
519-888-5550  
[aconrad@wnhydro.com](mailto:aconrad@wnhydro.com)

## **1.0b Company Size and Number of Customers**

1.9 WNH is a municipally owned electric distribution company. WNH serves approximately 57,000 residential, commercial, and industrial customers in the City of Waterloo and the Townships of Wellesley and Woolwich.

## **1.0c Customer Profile**

1.10 The Company currently uses seven customer classes for the purpose of distribution rates and billing: Residential, General Service < 50 kW, General Service > 50 kW, Large Use, Street Lighting, Unmetered Scattered Load and Embedded Distributor.

- 1.11 The General Service < 50 kW class consists of a wide range of customers including: office buildings, medium and small commercial and industrial establishments, farms, apartment and condominium buildings.
- 1.12 The General Service > 50 kW class is typically comprised of large commercial and industrial customers.
- 1.13 The Large Use class consists of one large use customer with an average load over five megawatts.
- 1.14 The Street Light class contributes less than 1% to the Company's current distribution revenue.
- 1.15 The Unmetered Scattered Load class contributes less than 1% to the Company's current distribution revenue.
- 1.16 The Embedded Distributor rate class contributes less than 1% to the Company's current distribution revenue.

#### **1.0d Previously Denied Amounts**

- 1.17 WNH has not previously been denied any amounts that are included in the account balances in this application.

#### **1.0e Internet Address**

WNH's internet address is [wnhydro.com](http://wnhydro.com) for the purpose of viewing the application and related documents as required in the July 12, 2018 Filing Requirements for Electricity Distribution Rate Applications – 2018 Edition for 2019 Rate Applications.

## 2.0 Information supporting the data filed in this Application:

WNH has provided the following Attachments:

Attachment	Description
A	Rate Generator Model
B	GA Analysis Workform & Appendix A Responses
C	1595 Analysis Workform
D	Current January 1, 2019 Tariff Sheet
E	2016 Cost of Service Settlement Agreement
F	Revenue Requirement Work Form
G	2020 IRM Checklist

### 2.1 2020 Rate Generator and Supplementary Work Forms

WNH has included in its application a completed 2020 Rate Generator Model as Attachment A. The Model has been provided in both electronic (Excel) and PDF form. Additionally, WNH has included the GA Analysis Workform which is calculated outside of the Model in Attachment B and the 1595 Analysis Workform in Attachment C. WNH has also included its Settlement Agreement and Revenue Requirement Work Form from its 2016 Cost of Service Filing (EB-2015-0108) as Attachment E and F respectively. WNH has also included the 2020 IRM Checklist as provided by the OEB.

### 2.2 Current Tariff Sheet

WNH has included in its application a PDF Copy of the Current January 1, 2019 Tariff Sheet as Attachment D.

### 2.3 Customers Affected

This application will affect all of WNH's rate classes and therefore all of its customers.

WNH expects that its customers may require further information about rate impacts as a result of this application. It will undertake to inform and explain the rate changes and the reasons for them to customers.

## **2.4 Price Cap Index Adjustment**

WNH has used the model proxy values of 1.5% as the Price Escalator (GDP-IPI), a 0.0% Productivity Factor and a Group III 0.3% Stretch Factor Value, for a Price Cap Index of 1.2%, as prescribed in Sheet 16 of the 2020 Rate Generator Model. WNH understands that Board staff will adjust, WNH's 2020 rate application model, for the final GDP-IPI once it is available.

## **2.5 Accuracy of Billing Determinants**

WNH confirms the accuracy of the billing determinants that were pre-populated in the model with the exception of the following items:

i) On Sheet 11 RTSR-UTRs & Sub-Tx the 'Add Extra Host Here (I)' and 'Add Extra Host Here (II)' cells are locked and therefore Kitchener Wilmot and Energy + respectively could not be entered. Additionally, the 2018 Rate cells were also locked and could not be entered. There should be no rate impact due to these cells. Because of the locked cells, the names in Sheet 12 RTSR – Historical Wholesale the host names are also not populated.

ii) On Sheet 20 Bill Impacts, RTRS – Network and RTSR – Connection and/or Line and Transformation Connection charges for the Large Use rate class are not populating. These charges are populated on the Final Tariff Schedule.

## **2.6 Tax Sharing**

WNH has included in its application the Tax Sharing Calculations in Sheets 8 and 9 of the Rate Generator Model. In accordance with IRM4, a 50/50 sharing of the

impact of currently known legislated tax changes as applied to the tax level reflected in the Board-approved base rates has been calculated. On July 25, 2019 the OEB released “Accounting Direction Regarding Bill C-97 and Other Changes in Regulatory or Legislated Tax Rules for Capital Cost Allowance. Included in these changes is the Accelerated Investment Incentive for eligible capital assets acquired after November 20, 2018. WNH did not have any eligible capital asset acquisitions after this date and therefore no associated Tax Savings Rate Rider has been calculated for any rate class.

## **2.7 Deferral and Variance Account Balances**

WNH has not exceeded the disposition threshold of \$.001/kWh of its Group 1 Account Deferral and Variance Account Balances as reflected in Sheet 4 of its 2019 Rate Generator Model however WNH is electing to dispose of the Group 1 account balances. WNH has included its detailed information and calculations in Sheet 3 to Sheet 7 of its 2020 Rate Generator Model and included its final proposed rate riders in Sheet 19 of its 2020 Rate Generator Model (Attachment A).

The Group 1 Account Balances include the Low Voltage Variance Account; the Smart Metering Entity (SME) Charge Variance; the RSVA Accounts – Wholesale Market Service Charge, Variance WMS – Sub-account CBR Class B, Retail Transmission Network Charge, Retail Transmission Connection Charge, Power and Global Adjustment Balances and Disposition and Recovery/Refund of Regulatory Balances capture the variances from January 1, 2018 through December 31, 2018.

WNH is proposing a one-year disposition period in the repayment of its Group 1 Deferral and Variance Account Balances at December 31, 2018. This disposition period is in accordance with the Board’s EDDVAR Report default disposition period of one year for deferral and variance accounts.



WNH has provided a summary of the Deferral and Variance accounts proposed for disposition in Table 2.7b below. WNH notes that in Sheet 3 Column BQ of the 2019 Rate Generator Model has recorded the Projected Interest for January 2019 to December 2019 on WNH's 2018 balances.

In Column BV of Sheet 3, 2020 Continuity Schedule of Deferral and Variance Balances of the 2020 Rate Generator Model, the Variance between the 2.1.7 RRR data and the 2018 Balance (Principal and Interest) is calculated. All balances agree to the RRR balances filed for December 31, 2018 with the exception of \$(93,683) in RSVA – Wholesale Market Service Charge, \$(495,997) in RSVA – Power and \$(24,273) in the LRAM Variance account.

The \$(93,683) in RSVA – Wholesale Market Service Charge agrees to the Variance WMS – Sub-account CBR Class B. As per the IRM Model Account 1580 RSVA WMS balance inputted into this schedule is to exclude any amounts relating to CBR. The 1580 RRR balance does include CBR which accounts for the variance. No adjustment required.

The \$(495,997) in RSVA – Power is the sum of adjustments for 2017 and 2018 true-ups with the IESO. In WNH's 2019 Decision and Rate Order (EB-2018-0074) it was stated "The OEB is satisfied that the balance of account 1589 is reasonable and is adequately supported. In addition, the OEB finds that Waterloo North Hydro's credit balance of \$1,105,779 of account 1588 RSVA power is somewhat high for a distributor of its size. The OEB expects Waterloo North Hydro to perform an internal review to determine the operational reasons for this balance and report its findings back to the OEB with its next rate application. Given that the OEB is not disposing of Group 1 accounts generally on a final basis, in the event that Waterloo North Hydro uncovers any material discrepancies in account 1588, it would have the opportunity to adjust the balance of this account in future." WNH completed a review of this account in 2019. Due to the current process for settlement it was determined that there is a price variance that had not been true-up with the IESO in 2017 and 2018. This will be resolved for 2019 and future years due to the transition to the new 1588/1589 account rules set out by the OEB. It was

determined that the true-up required for 2017 was \$1,193,281. In WNH's 2019 application \$398,902 had been adjusted as this was the amount of variance that could be determined at that time. This leaves of a remainder of \$794,379 to be adjusted in the 2020 application. The same process was completed for the 2018 year. The variance for 2018 was \$(298,382). This accounts for the difference of \$495,997. See Table 2.7a – 2017 & 2018 True-Up Adjustments for the details.

As per the instructions on Sheet 3, 2020 Continuity Schedule of Deferral and Variance Balances of the 2020 Rate Generator Model, the LRAM Variance Account details have not been input as WNH is not applying for disposition of this account. The balance listed in column BU, 2.1.7 RRR data is accurate for December 31, 2018. The 2014 LRAMVA was approved in the 2016 Cost of Service Application. The 2015, 2016, 2017 and 2018 LRAMVA will be disposed of in a future application.

WNH has detailed in Tables 2.7c and 2.7d below the Cost Allocation and Calculation of the Rate Riders for the Deferral and Variance Accounts. WNH notes that the Rate Rider for Global Adjustment is applicable only for Non-RPP Customers. WNH has included the Calculation of Projected Interest on December 31, 2018 Balances for accounts included in the Total Claim in Table 2.7e.

WNH did not make any adjustments to deferral and variance account balances that were previously approved by the Board on a final basis.

**Table 2.7a – 2017 & 2018 True Up Adjustments**

	2017 True Up Values												Total True Up 2017	All ready submitted for 2017*	2017 True up to be submitted
	April	May	June	July	August	September	October	November	December						
Tier 1	(204,061)	102,571	132,419	(66,488)	(73,761)	29,488	(152,206)	297,222	68,711	133,896	34,354	99,542			
Tier 2	(178,668)	72,629	114,816	(67,797)	(61,784)	23,082	(129,129)	241,354	35,089	49,592	49,890	(298)			
TOU Off-peak	(1,566,837)	1,697,417	878,803	(566,881)	(456,168)	119,256	(1,079,521)	2,012,141	(12,644)	1,025,565	59,443	966,122			
TOU Mid-peak	(575,034)	338,772	266,127	(164,750)	(191,079)	56,294	(323,813)	598,611	129,932	135,059	58,192	76,867			
TOU On-peak	(801,061)	257,145	314,006	(199,102)	(222,185)	52,150	(353,217)	627,848	173,586	(150,831)	197,023	(347,854)			
Total	(3,325,662)	2,468,534	1,706,171	(1,065,017)	(1,004,976)	280,270	(2,037,887)	3,777,176	394,673	1,193,281	398,902	794,379			

WNH currently submits 1598 settlement based on billed usage. The true up value calculated in these tables represents the difference between the amount we submitted for 1598 and the actual usage for the settlement month. The actual HOEP and GA rates were used in calculating the difference. The settlement data was pulled directly from our submissions and the consumption was pulled from our billing system.

\* WNH previously submitted a true-up amount within WNH's regular December 2018 settlement; this amount was recorded in the 2019 IRM application.

	2018 True Up Values												Total True Up 2018**
	January	February	March	April	May	June	July	August	September	October	November	December	
Tier 1	(98,695)	(64,774)	(10,907)	10,282	220,022	(122,375)	67,325	(31,987)	(8,976)	(32,750)	141,907	(120,900)	(51,828)
Tier 2	(81,600)	(51,616)	(15,686)	30,474	85,495	(93,075)	43,180	(33,855)	15,397	(49,294)	176,952	(79,202)	(52,831)
TOU Off-peak	(509,533)	(444,996)	66,330	149,402	1,190,854	(806,612)	376,746	(258,067)	(102,711)	113,630	1,007,090	(828,407)	(46,273)
TOU Mid-peak	(167,819)	(117,529)	(9,430)	39,689	277,925	(226,633)	138,260	(82,904)	(532)	(51,723)	330,264	(184,495)	(54,928)
TOU On-peak	(183,212)	(129,070)	(56,268)	41,322	296,451	(203,985)	195,818	(80,906)	(47,766)	(94,737)	378,958	(209,126)	(92,522)
Total	(1,040,859)	(807,985)	(25,961)	271,168	2,070,746	(1,452,681)	821,329	(487,719)	(144,588)	(114,873)	2,035,170	(1,422,130)	(298,382)

\*\* This true up value will be submitted along with one of our regular monthly settlement submissions pending approval from the OEB.

Please note negative values are amounts owed to WNH, and positive values are amounts owed to IESO

Table 2.7b – Summary of Deferral and Variance Accounts

Account Descriptions	Account Number	Closing Principal Balances as of Dec 31-18 Adjusted for Dispositions during 2019	Closing Interest Balances as of Dec 31-18 Adjusted for Dispositions during 2019	Projected Interest from Jan 1, 2019 to December 31, 2019 on Dec 31 -18 balance adjusted for disposition during 2019	Total Claim \$
<b>Group 1 Accounts</b>					
LV Variance Account	1550	103,512	1,329	2,326	107,167
Smart Metering Entity Charge Variance Account	1551	(67,812)	6	(1,524)	(69,330)
RSVA - Wholesale Market Service Charge	1580	(202,445)	19,724	(4,550)	(187,271)
Variance WMS – Sub-account CBR Class A	1580	-	-	-	-
Variance WMS – Sub-account CBR Class B	1580	(46,898)	(941)	(1,054)	(48,893)
RSVA - Retail Transmission Network Charge	1584	155,938	(732)	3,505	158,711
RSVA - Retail Transmission Connection Charge	1586	296,123	3,088	6,655	305,866
RSVA - Power	1588	865,538	(32,561)	19,453	852,430
RSVA - Global Adjustment	1589	(348,978)	11,247	(7,843)	(345,574)
		-	-	-	-
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)	1595	-	1,065	-	**
Disposition and Recovery/Refund of Regulatory Balances (2017)	1595	39,743	(142,424)	893	(101,788)
Disposition and Recovery/Refund of Regulatory Balances (2018)	1595	46,498	(64,586)	1,045	*
Disposition and Recovery/Refund of Regulatory Balances (2019) <i>Not to be disposed of until a year after rate rider has expired and that balance has been audited</i>	1595	-	-	-	-
		-	-	-	-
RSVA - Global Adjustment	1589	(348,978)	11,247	(7,843)	(345,574)
<b>Total Group 1 Balance excluding Account 1589 - Global Adjustment</b>		1,190,197	(216,032)	26,750	1,016,893 *
<b>Total Group 1 Balance</b>		841,219	(204,785)	18,906	671,318 *
		-	-	-	-
<b>LRAM Variance Account (only input amounts if applying for disposition of this account)</b>					-
					-
<b>Total including Account 1568</b>	<b>1568</b>	-	-	-	-
<b>Total including Account 1568</b>		<b>841,219</b>	<b>(204,785)</b>	<b>18,906</b>	<b>671,318</b>

\* Total Claim Column does not include amounts related to Disposition and Recovery/Refund of Regulatory Balances (2018)

\*\* Total Claim does not include \$1,065 balance in 2016 1595 as this amount will be written off in 2019 per Appendix A requirements.

**Table 2.7c – Cost Allocation Deferral & Variance Balances**

Allocation of Group 1 Accounts (Excluding Account 1589 - Global Adjustment)											
Rate Class	Unit	% of Total kWh	% of Customer Numbers **	1550	1551	1580	1584	1586	1588*	1595_(2017)	Total
Residential	\$/kWh	28.4%	89.7%	30,393	(62,189)	(67,374)	45,011	86,745	243,185	(28,860)	246,912
General Service Less Than 50 kW	\$/kWh	13.6%	10.3%	14,545	(7,141)	(32,243)	21,541	41,514	116,381	(13,982)	140,614
General Service 50 to 4,999 kW	\$/kW	48.4%		51,907	-	(113,666)	76,872	148,147	410,275	(49,192)	524,343
Large Use	\$/kW	6.7%		7,227	-	(16,020)	10,703	20,626	57,824	(6,631)	73,730
Unmetered Scattered Load	\$/kWh	0.2%		193	-	(428)	286	551	1,546	(189)	1,959
Street Lighting	\$/kW	0.2%		257	-	(570)	381	734	2,057	(543)	2,316
Embedded Distributor	\$/kW	2.5%		2,645	-	(5,863)	3,917	7,549	21,163	(2,392)	27,019
<b>Total</b>		<b>100.0%</b>	<b>100.0%</b>	<b>107,167</b>	<b>(69,330)</b>	<b>(236,164)</b>	<b>158,711</b>	<b>305,866</b>	<b>852,430</b>	<b>(101,788)</b>	<b>1,016,893</b>

\* RSVA - Power (Excluding Global Adjustment)

\*\* Calculation based on Residential and GS < 50kW Customers only. Used to allocate Account 1551 as this account records the variances arising from the Smart Metering Entity Charges.

1589 RSVA - Global Adjustment				
Rate Class	Unit	Billed kWh for Non-RPP Customers	% of Total Non-RPP kWh	1589 GA
Residential	\$/kWh	9,396,122	1.9%	(6,679)
General Service Less Than 50 kW	\$/kWh	33,941,296	7.0%	(24,127)
General Service 50 to 4,999 kW	\$/kW	600,936,918	82.8%	(284,039)
Large Use	\$/kW		0.0%	(81)
Unmetered Scattered Load	\$/kWh	141	0.0%	-
Street Lighting	\$/kW	3,498,479	0.7%	(2,487)
Embedded Distributor	\$/kW	36,001,231	7.5%	(25,591)
Class A Transition Customers				(2,570)
<b>Total</b>		<b>683,774,187</b>	<b>100.0%</b>	<b>(345,574)</b>

**Table 2.7d – Calculation of Deferral & Variance Rate Riders**

Please indicate the Rate Rider Recovery Period (in years)

Rate Class	Unit	Total Metered kWh	Metered kW or kVA	Allocation of Group 1 Account Balances to All Classes	Allocation of Group 1 Account Balances to Non-WMP Classes Only	Deferral/Variance Account Rate Rider	Deferral/Variance Account Rate Rider for Non-WMP	Total GA \$ allocated to Current Class B Customers	Global Adjustment Rate Rider
Residential *	\$/kWh	413,689,291	-	246,912		0.0006		(6,679)	(0.0007)
General Service Less Than 50 kW	\$/kWh	197,978,624	-	140,614		0.0007		(24,127)	(0.0007)
General Service 50 to 4,999 kW	\$/kW	706,516,405	1,820,376	227,734	296,609	0.1251	0.1629	(284,039)	(0.0007)
Large Use	\$/kW	98,366,842	173,376	73,730		0.4253		(81)	(0.0007)
Unmetered Scattered Load	\$/kWh	2,629,283	-	1,959		0.0007		-	-
Street Lighting	\$/kW	3,498,479	9,804	2,316		0.2362		(2,487)	(0.0007)
Embedded Distributor	\$/kW	36,001,231	85,275	27,019		0.3168		(25,591)	(0.0007)
<b>Total</b>		<b>1,458,680,155</b>	<b>2,088,831</b>	<b>720,284</b>	<b>296,609</b>			<b>(343,004)</b>	

**Table 2.7e - Calculation of Projected Interest on December 31, 2018 Balances**

Account Description	USoA #	December 31, 2018 Closing Balance after Approved Dispositions for 2019	Interest Rate Used (Jan-Mar 2019)	Interest Rate Used (Apr-Dec 2019)	Projected Interest from Jan 1, 2019 to December 31, 2019 on Dec 31 -18 balance adjusted for disposition during 2019
LV Variance Account	1550	\$ 103,512	2.45%	2.18%	\$ 2,326
Smart Metering Entity Charge Variance Account	1551	\$ (67,812)	2.45%	2.18%	\$ (1,524)
RSVA - Wholesale Market Service Charge (less CBR Class A)	1580	\$ (202,445)	2.45%	2.18%	\$ (4,550)
Variance WMS – Sub-account CBR Class B	1580	\$ (46,898)	2.45%	2.18%	\$ (1,054)
RSVA - Retail Transmission Network Charge	1584	\$ 155,938	2.45%	2.18%	\$ 3,505
RSVA - Retail Transmission Connection Charge	1586	\$ 296,123	2.45%	2.18%	\$ 6,655
RSVA - Power	1588	\$ 865,538	2.45%	2.18%	\$ 19,453
RSVA - Global Adjustment	1589	\$ (348,978)	2.45%	2.18%	\$ (7,843)
Disposition and Recovery/Refund of Regulatory Balances (2017)	1595	\$ 39,743	2.45%	2.18%	\$ 893
Disposition and Recovery/Refund of Regulatory Balances (2018)	1595	\$ 46,498	2.45%	2.18%	\$ 1,045
<b>Total</b>		\$ 841,219			\$ <b>18,906</b>

## 2.8 Capacity Based Recovery

WNH has followed the July 25, 2016 Accounting Guidance on Capacity Based Recovery:

*“Distributors are expected to file for disposition of Group 1 deferral and variance accounts pursuant to the applications process established by the OEB. Distributors are expected to report Account 1580 Variance – WMS, Sub-account CBR Class A and Class B on their continuity schedules. However, only Class B balances will be disposed through the rate proceedings.”*

The Rate Rider for Capacity Based Recovery – Class B has been calculated in the 2020 IRM Rate Generator Model. In accordance with the OEB note on Sheet 6.2 CBR B, since the allocated Account 1580 sub-account CBR Class B amount does not produce a rate rider in one or more rate class (except for the Standby rate class), a distributor is to transfer the entire OEB-approved CBR Class B amount into 1580 WMS control account to be disposed through the general purpose Group 1 DVA rate riders.

It is noted that in 2018 there were 2 customers who switched from Class B to Class A on July 1. These customers’ usage and demand has been provided in Sheet 6 Class A Consumption Data.

## 2.9 Retail Transmission Service Rates

Electricity distributors are charged the Ontario Uniform Transmission Rates (“UTRs”) at the wholesale level and subsequently pass these charges on to their distribution customers through the Retail Transmission Service Rates (“RTSRs”). The UTRs are charges for network, line connection and transformation connection services.

The Board has incorporated the RTSR calculations within its 2020 IRM Model in Sheets 10 through 15.

WNH has included its 2018 billing determinants as specified in Sheet 12, RTSR – Historical Wholesale of the 2020 IRM Model.

In Sheets 11 and 12 of the 2020 IRM Model, information for two additional Host Distributors has been included. The first Host Distributor listed is Kitchener-Wilmot Hydro (KW) and the second Host Distributor is Energy + (E+) - Formerly Cambridge & North Dumfries Hydro. The model has locked cells on Sheets 11 and 12, therefore the names of the extra hosts could not be entered.

WNH has inserted the following rates and consumption for its two Additional Host Distributors on Sheets 11 and 12 of the 2019 IRM Model as detailed in Table 2.9a below.

On Tab 20 Bill Impacts of the 2020 IRM Model, on all rate classes it states “In the manager’s summary, discuss the reasoning for the change in RTSR rates”. The main reason for the increase is the approved Uniform Transmission Rates – Network which increased by 6.1% and the Hydro One Sub-Transmission Rates – Network, Line and Transformation Connection which increased by 6.0%.

**Table 2.9a Rate Orders Applicable to Host Distributors KW & E+**

LDC	Filing #	Effective January 1, 2018		Effective January 1, 2019		Effective January 1, 2020
		Rate Order Applicable	Months Applicable To	Rate Order Applicable	Months Applicable To	Rate Order Applicable
KW	EB-2017-0056	January 1, 2018	2018			
	EB-2018-0048			January 1, 2019	2019	Used January 1, 2019 Rates
E+	EB-2016-0060	May 1, 2017	Jan-Apr/18			
	EB-2017-0030	May 1, 2018	May-Dec/18			
	EB-2017-0030			May 1, 2018	Jan-Jul/19	
	EB-2018-0028			January 1, 2019	Aug-Dec/19	Used Jan 1, 2019 Rates (Implementation Aug 1, 2019)

**Table 2.9b Calculation of Energy + Blended Rates for 2018 and 2019**

Energy + Network Service Rate	# of Months	Rate per Rate Order	RTSR per Sheet 11
EB-2016-0060	4	\$ 2.8439	\$ 0.9480
EB-2017-0030	8	\$ 2.4156	\$ 1.6104
<b>2018 Rate</b>			\$ 2.5584
EB-2017-0030	7	\$ 2.4156	\$ 1.4091
EB-2018-0028	5	\$ 2.6625	\$ 1.1094
<b>2019 Rate</b>			\$ 2.5185
Energy + Line and Transformation Connection Service Rate	# of Months	Rate per Rate Order	RTSR per Sheet 11
EB-2016-0060	4	\$ 2.0406	\$ 0.6802
EB-2017-0030	8	\$ 1.9849	\$ 1.3233
<b>2018 Rate</b>			\$ 2.0035
EB-2017-0030	7	\$ 1.9849	\$ 1.1579
EB-2018-0028	5	\$ 1.6731	\$ 0.6971
<b>2019 Rate</b>			\$ 1.8550



WNH is proposing to also use KW & E+'s, January 1, 2019 (effective August 1, 2019 for E+), Approved Embedded Distributor Retail Transmission rates, in the RTSR Model's 'Effective January 1, 2019' column.

WNH notes that in accordance with its billing arrangements with its Embedded Distributor, Retail Transmission Rates are not applicable.

WNH has provided the proposed RTSR rates, as derived from Sheet 15 of the 2020 IRM model, in Table 2.9c below.

**Table 2.9c Proposed January 1, 2020 Retail Transmission Service Rates**

Rate Class	Unit	Proposed RTSR Network	Proposed RTSR Connection
Residential	\$/kWh	\$ 0.0072	\$ 0.0025
General Service Less Than 50 kW	\$/kWh	\$ 0.0067	\$ 0.0023
General Service 50 to 999 kW	\$/kW	\$ 2.7408	\$ 0.8907
General Service 50 to 999 kW - Interval Metered	\$/kW	\$ 2.9112	\$ 1.1124
General Service 1,000 to 4,999 kW - Interval Meters	\$/kW	\$ 2.9072	\$ 1.1113
Large Use	\$/kW	\$ 3.2231	\$ 1.1164
Unmetered Scattered Load	\$/kWh	\$ 0.0067	\$ 0.0023
Street Lighting	\$/kW	\$ 2.0672	\$ 0.6883
Embedded Distributor	\$/kW	\$ -	\$ -

WNH has provided the details of the 2018 Retail Transmission Network and Connection kW Quantities, for which WNH incurred charges, in Table 2.9d below.

**Table 2.9d 2018 Retail Transmission Network and Connection kW Quantities**

Month	NW - Network kW					CN - Line Connection					CN - Line Transformation				
	IESO	HONI	KW	E+	Total	IESO	HONI	KW	E+	Total	IESO	HONI	KW	E+	Total
Jan	205,666	6,538	3,940	10,854	226,998	216,835	6,705	3,940	10,854	238,333	23,132	6,705			29,837
Feb	195,729	6,256	3,638	9,019	214,641	200,216	6,323	3,638	9,125	219,302	24,499	6,323			30,822
Mar	184,744	7,277	3,287	8,483	203,791	191,845	7,305	3,308	8,522	210,980	26,485	7,305			33,790
Apr	185,272	5,296	3,287	8,509	202,364	190,219	5,296	3,287	8,656	207,458	27,359	5,296			32,655
May	233,669	5,786	-	9,782	249,237	241,527	5,961	-	9,782	257,269	24,333	5,961			30,294
Jun	225,269	5,840	-	9,653	240,761	247,348	6,142	-	9,653	263,143	25,931	6,142			32,073
Jul	257,253	5,643	-	10,348	273,245	267,263	5,700	-	10,348	283,311	26,250	5,700			31,950
Aug	237,152	5,327	4,049	10,116	256,644	244,233	5,404	4,105	10,116	263,858	25,959	5,404			31,363
Sep	262,169	5,600	4,168	10,511	282,448	265,530	5,666	4,316	10,511	286,024	27,528	5,666			33,194
Oct	192,838	5,048	3,063	8,411	209,360	201,154	5,286	3,128	8,631	218,200	22,847	5,286			28,133
Nov	191,469	4,710	3,642	9,771	209,592	197,314	4,731	3,642	9,771	215,457	24,493	4,731			29,224
Dec	185,664	5,297	3,701	9,500	204,162	199,053	5,416	3,701	9,500	217,670	24,019	5,416			29,435
<b>Total</b>	<b>2,556,894</b>	<b>68,618</b>	<b>32,774</b>	<b>114,957</b>	<b>2,773,243</b>	<b>2,662,537</b>	<b>69,933</b>	<b>33,065</b>	<b>115,469</b>	<b>2,881,004</b>	<b>302,835</b>	<b>69,933</b>	-	-	<b>372,768</b>

## 2.10 Low Voltage Service Rate

WNH has included Low Voltage Cost Recovery in its rates since May 1, 2006 and has reflected the increase of subsequent price caps adjustment in its records. WNH is aware that the price cap index adjustment is no longer applied to the Low Voltage Service Rates and proposes to continue its low voltage cost recovery at its current level.

## 2.11 Global Adjustment

Section 3.2.5.2 of Chapter 3 of the Board's Filing Requirements for Electricity Distribution Rate Applications – 2018 Edition for 2019 Rate Applications states: *“Starting for 2018 rate applications, all distributors were required to complete the GA Analysis Workform. The new workform will help the OEB assess if the annual balance in Account 1589 is reasonable.”*

WNH has included the GA Analysis Workform and Appendix A Questions in Attachment B.

Section 3.2.5.2 also states that:

*“A distributor must support its GA claims with a description of its settlement process with the IESO or host distributor.”*

All non-RPP Class B customers are billed on the first GA estimate. The majority of non-RPP customers are billed on a calendar month basis. Consumption for each billing cycle is billed in the subsequent month. The non-RPP customers who are not billed on a calendar month basis are residential and GS<50kW retail customers; they are billed in a monthly cycle that is not on a calendar schedule. The GA rate is applied consistently for all billing and unbilled revenue transactions for non-RPP Class B customers in each customer class. RPP is settled on cash basis and no true up is required; any customer billing adjustments are accounted for in the month that they are discovered. Accounting and internal controls are provided below.

Further this section states:

*“A distributor must provide the OEB with a description of its financial accounting practices as they relate to its initial recording of transactions in Commodity Accounts 1588 and 1589. In addition, a distributor must disclose the nature, timing, and dollar impact of any subsequent adjustments recorded after the reporting period that adjust the initial transactions from preliminary estimates to actual figures based on consumption data.”*

WNH initially records revenue transactions associated with energy billings for RPP customers, non-RPP customers (HOEP or weighted average hourly price X billed consumptions) and unbilled accruals in RSVA Power Account 1588. The expense transactions included in RSVA Power Account 1588 include Charge type 101, 142 and RPP portion of the Global Adjustment charge (148) on the IESO invoices. WNH determines the difference between what is billed to the RPP customers and the market price. The market price is recorded in the RSVA Power Account 1588 and the difference is recorded in the settlement with the IESO. WNH initially records revenue transactions associated with global adjustment billings for Class A customers (revenue and expenses for Class A customers are both included but always net to zero), and global adjustment billings for Class B non-RPP customers in RSVA Global Adjustment Account 1589. The expense transactions included in RSVA Global Adjustment Account 1589 include Charge type 147 Class A global adjustment (as noted revenue and expenses for Class A customers are both included but always net to zero) and non-RPP portion of the Global Adjustment charge (148) on the IESO invoices. WNH allocates Class B Global Adjustment charges using actual RPP and actual non-RPP volumes. WNH did not record any adjustment amounts to 1588 and 1589. WNH has substantial controls and checks in place to ensure accuracy of account balances. Spreadsheets for 1588 and 1589 accounts have balancing and reasonability checks. WNH's ODS/MDM houses settlement data and is cross-checked against the spreadsheets. All 1589 settlement submissions are reviewed by a secondary person.

After review of the 2019 IRM application further steps were taken to improve this process. It was determined that price true-ups were not completed with the IESO which caused annual variances. These have been corrected for 2017 and 2018 and were discussed earlier in this application. The need for this will be eliminated after full transition to the new accounting guidance provided by the OEB.

## **2.12 RPP Settlement True-Ups**

Section 3.2.5.3 of Chapter 3 of the Board's Filing Requirements for Electricity Distribution Rate Applications – 2018 Edition for 2019 Rate Applications states: *“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 the RSVA Power (Account 1588) and RSVA GA (Account 1589) variance accounts.”*

WNH performs true-ups in accordance with the accounting guidance provided on May 23, 2017 and reflects RPP settlement true up claims in the year to which such true-up adjustments relate. This process has been improved after discussion with OEB staff from the 2019 IRM application.

## **2.13 Certification of Evidence**

Section 3.2.5.3 of Chapter 3 of the Board's Filing Requirements for Electricity Distribution Rate Applications – 2018 Edition for 2019 Rate Applications states: *“Given issues have arisen with commodity accounts 1588 RSVA Power and 1589 RSVA GA balances, the OEB now requires a certification by the Chief Executive Officer (CEO), or Chief Financial Officer (CFO), or equivalent. The application must include a certification that the distributor has robust processes and internal controls in place for the preparation, review, verification and oversight of the account balances being disposed, consistent with the certification requirements in Chapter 1 of the filing requirements.”*

I, Rene W. Gatien, President and Chief Executive Officer of Waterloo North Hydro Inc. certify that Waterloo North Hydro Inc. has robust processes and internal controls in place for the preparation, review, verification and oversight of the account balances being disposed.

*Original Signed By*

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Rene W. Gatien, P. Eng., MBA  
President and Chief Executive Officer

## **2.14 Status Update on Implementation of New Accounting Guidance**

Per the Addendum to Filing Requirements for Electricity Distribution Rate Applications released on July 15, 2019 it was stated that *“distributors are to provide a status update on the implementation of the new accounting guidance, a review of historical balances, results of the review, and any adjustments made to account balances.”* WNH has been progressing well with the required accounting changes. Due to the fact that WNH previously settled on billed usage data for commodity charges (1588) there is a large shift in process as well as required system changes to access this data appropriately. WNH is confident that this will be tested and implemented prior to yearend as this has been a top priority in 2019. A review of historical balances using the new methodology has been done for 2017 and 2018 which was previously discussed in this application.

## **2.15 1595 Analysis Workform**

Appendix A of Chapter 3 of the Board’s Filing Requirements for Electricity Distribution Rate Applications – 2018 Edition for 2019 Rate Applications states: *“Starting for the 2019 rate applications, distributors who meet the requirements for disposition of residual balances of Account 1595 sub-accounts, must complete the 1595 Analysis Workform. The new workform will help the OEB assess if the residual balances in Account 1595 Sub-accounts for each vintage year are reasonable.”*

WNH has included the 1595 Analysis Workform in Attachment C.

### **3.0 Proposed Rates**

WNH has provided the Proposed January 1, 2020 Tariff of Rates and Charges in Table 3.0a below. The Rate Generator Model, which calculated the proposed rates and charges and the Tariff Schedule, has been submitted in excel format with this application.

WNH proposes to implement the new rates as of January 1, 2020. WNH will prorate the customers' bills in order that consumption prior to January 1, 2020 will be billed at its current approved rates and post January 1, 2020 consumption will be billed at the rates proposed in this rate application.

## Table 3.0a Proposed January 1, 2020 Tariff of Rate and Charges

# Waterloo North Hydro Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2020

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2019-0071

### RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate 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. All customers are single-phase. Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	31.79
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	0.0006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0073
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0025

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25



## GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	33.45
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0166
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	0.0007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

## GENERAL SERVICE 50 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 greater than, 50 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service. 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; General Service 50 to 999 kW interval metered; and General Service 1,000 to 4,999 kW interval metered.

### 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.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

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	\$	124.96
Distribution Volumetric Rate	\$/kW	5.3018
Low Voltage Service Rate	\$/kW	0.0738
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020 Applicable only for Non-Wholesale Market Participants	\$/kW	0.1629
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.1251
Retail Transmission Rate - Network Service Rate - (less than 1,000 kW)	\$/kW	2.7813
Retail Transmission Rate - Network Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	2.9542
Retail Transmission Rate - Network Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	2.9501
Retail Transmission Rate - Line and Transformation Connection Service Rate - (less than 1,000 kW)	\$/kW	0.9011

Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.1254
Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	1.1243

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

### LARGE USE SERVICE CLASSIFICATION

This classification applies to an account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	7,302.06
Distribution Volumetric Rate	\$/kW	4.2076
Low Voltage Service Rate	\$/kW	0.0925
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.4253
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	3.2707
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.1294

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

## 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 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Class B consumers are defined in accordance with O. Reg. 429/04. 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 (per connection)	\$	11.11
Distribution Volumetric Rate	\$/kWh	0.0138
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	0.0007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

## STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. 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 (per connection)	\$	0.34
Distribution Volumetric Rate	\$/kW	9.8139
Low Voltage Service Rate	\$/kW	0.0570
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.2362
Retail Transmission Rate - Network Service Rate	\$/kW	2.0977
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.6964

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

## **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.

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
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## EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION

This classification applies to an electricity distributor licensed by the Ontario Energy Board that is provided electricity by means of this distributor's facilities. Class B consumers are defined in accordance with O. Reg. 429/04. 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

Distribution Volumetric Rate	\$/kW	0.0209
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.3168

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

## ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.60)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

## 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

Easement letter	\$	15.00
Notification charge	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque (plus bank charges)	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Income tax letter	\$	15.00
Account set up charge / change of occupancy charge (plus credit agency costs if applicable)	\$	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
Disconnect/reconnect at meter - during regular hours	\$	65.00
Disconnect/reconnect at meter - after regular hours	\$	185.00

### Other

Specific charge for access to the power poles - \$/pole/year (with the exception of wireless attachments)	\$	44.15
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## 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.

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	\$	101.20
Monthly Fixed Charge, per retailer	\$	40.48
Monthly Variable Charge, per customer, per retailer	\$/cust.	1.01
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.61
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.61)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.51
Processing fee, per request, applied to the requesting party	\$	1.01
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)	\$	4.05

### 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	1.0362
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0147
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0259
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0047

## 4.0 Rate Impacts

WNH has included Rate Impacts in Table 4.0a. WNH has included for each rate class a typical usage customer. Rate impact model adjustments made by WNH were discussed in section 2.5.

WNH remains committed to the principle that significant increases or decreases be managed so as to mitigate undue rate impacts in all rate classes. WNH is also concerned that customers understand the rate impacts. Two critical measures of the impact analysis for each rate class are the percentage change from current rates, and the respective dollar amount of the impact. Providing both the dollar impact and the percentage change puts the increase or decrease in the proper context. WNH used both percentages and dollar amounts in Table 4.0a to demonstrate relative impacts. There is a range from an increase of 0.2% to 9.9% on the total bill including taxes to all classes after all proposed rate adjustments have been accounted for.

**Table 4.0a Summary Bill Impact by Rate Class**

Draft Rate Impacts for 2020 IRM Filing				
Rate Class	Typical kWh Usage	Typical kW Usage	% Total Bill Impact	\$ Total Bill Impact
Residential	700		2.60%	\$2.74
GS < 50 kW	2,000		2.83%	\$7.72
GS > 50 kW	100,000	250	0.62%	\$99.68
Large Use	8,000,000	14,500	1.67%	\$18,886.74
Unmetered Scattered Load	150		2.32%	\$0.73
Street Lighting	50	0.14	9.91%	\$66.89
Embedded Distributor	2,615,000	6,000	0.19%	\$646.25

Dated at Waterloo, Ontario this 9th day of August 2019.

*Original Signed By*

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 Rene W. Gatién, P. Eng., MBA  
 President & CEO  
 Waterloo North Hydro Inc.

# **Attachment A**

## **Rate Generator Model**

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Version 2.0

Utility Name	Waterloo North Hydro Inc.		
Assigned EB Number	EB-2019-0071		
Name of Contact and Title	Alyson Conrad, Manager of Finance and Regulatory Affairs		
Phone Number	519-888-5550		
Email Address	aconrad@wnhydro.com		
We are applying for rates effective	January-01-20		
Rate-Setting Method	Price Cap IR		
1. Select the last Cost of Service rebasing year	2016		
2. Select the year that the balances of Accounts 1588 and 1589 were last approved for disposition <i>(e.g. If 2017 balances were approved for disposition in the 2019 rate application, select 2017)</i>	2017		
3. Select the year that the balances of the remaining Group 1 DVAs were last approved for disposition	2017		
4. Select the earliest vintage year in which there is a balance in Account 1595 <i>(e.g. If 2016 is the earliest vintage year in which there is a balance in a 1595 sub-account, select 2016)</i>	2016		
5. Did you have any Class A customers at any point during the period that the Account 1589 balance accumulated (i.e. from the year the balance was last disposed to the year requested for disposition)?	Yes		
6. Did you have any customers classified as Class A at any point during the period where the balance in Account 1580, Sub-account CBR Class B accumulated (i.e. from the year the balance was last disposed to the year requested for disposition)?	Yes		
7. Retail Transmission Service Rates: Waterloo North Hydro Inc. is:	Partially Embedded	Within	Kitchener Wilmot Hydro, Energy +, Hydro One <i>(If necessary, enter all embedded distributor names in the above green shaded cell)</i>
8. Have you transitioned to fully fixed rates?	Yes		

**Legend**

- Pale green cells represent input cells.
- Pale blue cells represent drop-down lists. The applicant should select the appropriate item from the drop-down list.
- Red cells represent flags to identify either non-matching values or incorrect user selections.
- Pale grey cell represent auto-populated RRR data.
- White cells contain fixed values, automatically generated values or formulae.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your IRM application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

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.



# Incentive Rate-setting Mechanism

## Rate Generator for 2020 Filers

### Waterloo North Hydro Inc.

### TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2019

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2018-0074

### RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate 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. All customers are single-phase. Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	31.51
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019		
- Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kWh	(0.0020)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0067
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0025

### 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



Ontario Energy Board

# Incentive Rate-setting Mechanism

## Rate Generator for 2020 Filers

### GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	33.15
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0165
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kWh	(0.0020)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0062
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023

#### 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 Rate-setting Mechanism

## Rate Generator for 2020 Filers

### GENERAL SERVICE 50 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 greater than, 50 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service. 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; General Service 50 to 999 kW interval metered; and General Service 1,000 to 4,999 kW interval metered.

#### 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.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

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	\$	123.85
Distribution Volumetric Rate	\$/kW	5.2545
Low Voltage Service Rate	\$/kW	0.0738
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Applicable only for Non-Wholesale Market Participants - Approved on an Interim Basis	\$/kW	(0.8553)
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kW	0.0920
Retail Transmission Rate - Network Service Rate - (less than 1,000 kW)	\$/kW	2.5492
Retail Transmission Rate - Network Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	2.7077
Retail Transmission Rate - Network Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	2.7040
Retail Transmission Rate - Line and Transformation Connection Service Rate - (less than 1,000 kW)	\$/kW	0.8842
Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.1043
Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	1.1032

#### 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



Ontario Energy Board

# Incentive Rate-setting Mechanism

## Rate Generator for 2020 Filers

### LARGE USE SERVICE CLASSIFICATION

This classification applies to an account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	7,236.93
Distribution Volumetric Rate	\$/kW	4.1701
Low Voltage Service Rate	\$/kW	0.0925
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kW	(1.0712)
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9978
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.1082

### 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





Ontario Energy Board

# Incentive Rate-setting Mechanism

## Rate Generator for 2020 Filers

### 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 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Class B consumers are defined in accordance with O. Reg. 429/04. 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 (per connection)	\$	11.01
Distribution Volumetric Rate	\$/kWh	0.0137
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kWh	(0.0021)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0062
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023

### 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 Rate-setting Mechanism

## Rate Generator for 2020 Filers

### STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. 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 (per connection)	\$	0.34
Distribution Volumetric Rate	\$/kW	9.7264
Low Voltage Service Rate	\$/kW	0.0570
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kW	(0.6663)
Retail Transmission Rate - Network Service Rate	\$/kW	1.9227
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.6833

### 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



Ontario Energy Board

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

## 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.

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
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Ontario Energy Board

# Incentive Rate-setting Mechanism

## Rate Generator for 2020 Filers

### EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION

This classification applies to an electricity distributor licensed by the Ontario Energy Board that is provided electricity by means of this distributor's facilities. Class B consumers are defined in accordance with O. Reg. 429/04. 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

Distribution Volumetric Rate	\$/kW	0.0207
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kW	(0.8677)

### 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

### ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.60)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

### 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

Easement letter

#### 2. Current Tariff Schedule

\$ Issued Month day Year  
15.00



Ontario Energy Board

# Incentive Rate-setting Mechanism

## Rate Generator for 2020 Filers

Notification charge	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque (plus bank charges)	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Income tax letter	\$	15.00
Account set up charge / change of occupancy charge (plus credit agency costs if applicable)	\$	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
Disconnect/reconnect at meter - during regular hours	\$	65.00
Disconnect/reconnect at meter - after regular hours	\$	185.00

### Other

Specific charge for access to the power poles - \$/pole/year (with the exception of wireless attachments)	\$	43.63
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## 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.

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	1.0362
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0147
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0259



Ontario Energy Board

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

10

Total Loss Factor - Primary Metered Customer > 5,000 kW

1.0047

## Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Please complete the following continuity schedule for the following Deferral/Variance Accounts. Enter information into green cells only. Please see instructions tab for detailed instructions on how to complete tabs 3 to 7. Column BV has been prepopulated from the latest 2.1.7 RRR filing.

Please refer to the footnotes for further instructions.

		2016				
Account Descriptions	Account Number	Opening Principal Amounts as of Jan 1, 2016	Transactions Debit/ (Credit) during 2016	OEB-Approved Disposition during 2016	Principal Adjustments <sup>1</sup> during 2016	Closing Principal Balance as of Dec 31, 2016
<b>Group 1 Accounts</b>						
LV Variance Account	1550	0				0
Smart Metering Entity Charge Variance Account	1551	0				0
RSVA - Wholesale Market Service Charge <sup>5</sup>	1580	0				0
Variance WMS – Sub-account CBR Class A <sup>5</sup>	1580	0				0
Variance WMS – Sub-account CBR Class B <sup>5</sup>	1580	0				0
RSVA - Retail Transmission Network Charge	1584	0				0
RSVA - Retail Transmission Connection Charge	1586	0				0
RSVA - Power <sup>4</sup>	1588	0				0
RSVA - Global Adjustment <sup>4</sup>	1589	0				0
Disposition and Recovery/Refund of Regulatory Balances (2013) <sup>3</sup>	1595	0				0
Disposition and Recovery/Refund of Regulatory Balances (2014) <sup>3</sup>	1595	0				0
Disposition and Recovery/Refund of Regulatory Balances (2015) <sup>3</sup>	1595	0				0
Disposition and Recovery/Refund of Regulatory Balances (2016) <sup>3</sup>	1595	0	1,364,147			1,364,147
Disposition and Recovery/Refund of Regulatory Balances (2017) <sup>3</sup>	1595	0				0
Disposition and Recovery/Refund of Regulatory Balances (2018) <sup>3</sup>	1595	0				0
Disposition and Recovery/Refund of Regulatory Balances (2019) <sup>3</sup> <i>Not to be disposed of until a year after rate rider has expired and that balance has been audited</i>	1595	0				0
<b>RSVA - Global Adjustment</b>	<b>1589</b>	0	0	0	0	0
<b>Total Group 1 Balance excluding Account 1589 - Global Adjustment</b>		0	1,364,147	0	0	1,364,147
<b>Total Group 1 Balance</b>		0	1,364,147	0	0	1,364,147
<b>LRAM Variance Account (only input amounts if applying for disposition of this account)</b>	<b>1568</b>	0				0
<b>Total including Account 1568</b>		0	1,364,147	0	0	1,364,147

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.

<sup>1</sup> 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.

<sup>2</sup> 1) If the LDC's rate year begins on January 1, 2020, the projected interest is recorded from January 1, 2019 to December 31, 2019 on the December 31, 2018 balances adjusted to remove balances approved for disposition in the 2019 rate decision.  
2) If the LDC's rate year begins on May 1, 2020, the projected interest is recorded from January 1, 2019 to April 30, 2020 on the December 31, 2018 balances adjusted to remove balances approved for disposition in the 2019 rate decision.

<sup>3</sup> The individual sub-accounts as well as the total for all Account 1595 sub-accounts is to agree to the RRR data. Differences need to be explained. For each Account 1595 sub-account, the transfer of the balance approved for disposition into Account 1595 is to be recorded in "OEB Approved Disposition" column. The recovery/refund is to be recorded in the "Transaction" column. The audited balance in the account is only to be disposed a year after the recovery/refund period has been completed. Generally, no further transactions would be expected to flow through the account after that. Any vintage year of Account 1595 is only to be disposed once on a final basis. No further dispositions of these accounts are generally expected thereafter, unless justified by the distributor. Select yes in column BU if the sub-account is requested for disposition.

<sup>4</sup> 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 Accounts 1588 and 1589. The amount requested for disposition starts with the audited account balance. If the audited account balance does not reflect the true-up claims for that year, the impacts of the true-up claims are to be shown in the Adjustment column in that year. Note that this true-up claim will need to be reversed in the amount requested for disposition in the following year, unless the RPP settlement true-up claim was not reflected as an adjustment in the previously disposed ending account balance. Also see Accounting Procedures Handbook Update - Accounting Guidance Related to Commodity Pass-Through Accounts 1588 & 1589, dated February 21, 2019 for further detailed accounting guidance.

<sup>5</sup> Account 1580 RSVA WMS balance inputted into this schedule is to exclude any amounts relating to CBR. CBR amounts are to be inputted into Account 1580, sub-accounts CBR Class A and Class B separately. There is no disposition of Account 1580, sub-account CBR Class A, accounting guidance for this sub-account is to be followed. If a balance exists for Account 1580, sub-account CBR Class A as at Dec. 31, 2018, the balance must be explained.

**2017**

Opening Interest Amounts as of Jan 1, 2016	Interest Jan 1 to Dec 31, 2016	OEB-Approved Disposition during 2016	Interest Adjustments <sup>1</sup> during 2016	Closing Interest Amounts as of Dec 31, 2016	Opening Principal Amounts as of Jan 1, 2017	Transactions Debit/(Credit) during 2017	OEB-Approved Disposition during 2017	Principal Adjustments <sup>1</sup> during 2017	Closing Principal Balance as of Dec 31, 2017	Opening Interest Amounts as of Jan 1, 2017	Interest Jan 1 to Dec 31, 2017	OEB-Approved Disposition during 2017	Interest Adjustments <sup>1</sup> during 2017	Closing Interest Amounts as of Dec 31, 2017
0				0	0			339,131	339,131	0			3,749	3,749
0				0	0			(22,408)	(22,408)	0			(435)	(435)
0				0	0			(3,422,113)	(3,422,113)	0			(68,827)	(68,827)
0				0	0			0	0	0			0	0
0				0	0			177,674	177,674	0			3,860	3,860
0				0	0			(514,082)	(514,082)	0			(8,549)	(8,549)
0				0	0			118,538	118,538	0			1,614	1,614
0				0	0			(307,810)	(307,810)	0			10,104	10,104
0				0	0			1,353,503	1,353,503	0			(10,966)	(10,966)
0				0	0			0	0	0			0	0
0				0	0			0	0	0			0	0
0				0	0			0	0	0			0	0
0	46,905	1,512,419		(1,465,514)	1,364,147	162,182			1,526,329	(1,465,514)	18,023			(1,447,491)
0				0	0	2,936,314	2,846,486		89,828	0	(17,257)	125,685		(142,942)
0				0	0				0	0				0
0				0	0				0	0				0
0	0	0	0	0	0	0	0	1,353,503	1,353,503	0	0	0	(10,966)	(10,966)
0	46,905	1,512,419	0	(1,465,514)	1,364,147	3,098,496	2,846,486	(3,631,070)	(2,014,913)	(1,465,514)	766	125,685	(58,484)	(1,648,917)
0	46,905	1,512,419	0	(1,465,514)	1,364,147	3,098,496	2,846,486	(2,277,567)	(661,410)	(1,465,514)	766	125,685	(69,450)	(1,659,883)
0				0	0				0	0				0
0	46,905	1,512,419	0	(1,465,514)	1,364,147	3,098,496	2,846,486	(2,277,567)	(661,410)	(1,465,514)	766	125,685	(69,450)	(1,659,883)



2018										2019			
Opening Principal Amounts as of Jan 1, 2018	Transactions Debit / (Credit) during 2018	OEB-Approved Disposition during 2018	Principal Adjustments <sup>1</sup> during 2018	Closing Principal Balance as of Dec 31, 2018	Opening Interest Amounts as of Jan 1, 2018	Interest Jan 1 to Dec 31, 2018	OEB-Approved Disposition during 2018	Interest Adjustments <sup>1</sup> during 2018	Closing Interest Amounts as of Dec 31, 2018	Principal Disposition during 2019 - instructed by OEB	Interest Disposition during 2019 - instructed by OEB	Closing Principal Balances as of Dec 31, 2018 Adjusted for Disposition during 2019	Closing Interest Balances as of Dec 31, 2018 Adjusted for Disposition during 2019
339,131	103,512	154,065		288,578	3,749	4,646	2,542		5,853	185,066	4,524	103,512	1,329
(22,408)	(67,812)	(10,604)		(79,616)	(435)	214	210		(431)	(11,804)	(437)	(67,812)	6
(3,422,113)	870,256	(1,528,436)	(1,072,701)	(2,096,122)	(68,827)	(14,220)	(23,489)		(59,558)	(1,893,677)	(79,282)	(202,445)	19,724
0				0	0				0			0	0
177,674	(46,898)	222,477		(91,701)	3,860	(1,744)	4,098		(1,982)	(44,803)	(1,041)	(46,898)	(941)
(514,082)	155,938	(438,113)		79,969	(8,549)	(2,094)	(7,036)		(3,607)	(75,969)	(2,875)	155,938	(732)
118,538	296,123	14,245		400,416	1,614	4,957	551		6,020	104,293	2,932	296,123	3,088
(307,810)	369,541	770,633	495,997	(212,905)	10,104	(51,892)	18,109		(59,897)	(1,078,443)	(27,336)	865,538	(32,561)
1,353,503	(348,978)	357,678		646,847	(10,966)	29,097	(23,122)		41,253	995,825	30,006	(348,978)	11,247
0				0	0				0			0	0
0				0	0				0			0	0
0				0	0				0			0	0
1,526,329				1,526,329	(1,447,491)	28,425			(1,419,066)	1,526,329	(1,420,131)	0	1,065
89,828	(50,085)			39,743	(142,942)	518			(142,424)			39,743	(142,424)
0	343,631	297,133		46,498	0	(2,299)	62,287		(64,586)			46,498	(64,586)
0				0	0				0			0	0
1,353,503	(348,978)	357,678	0	646,847	(10,966)	29,097	(23,122)	0	41,253	995,825	30,006	(348,978)	11,247
(2,014,913)	1,974,206	(518,600)	(576,704)	(98,811)	(1,648,917)	(33,489)	57,272	0	(1,739,678)	(1,289,008)	(1,523,646)	1,190,197	(216,032)
(661,410)	1,625,228	(160,922)	(576,704)	548,036	(1,659,883)	(4,392)	34,150	0	(1,698,425)	(293,183)	(1,493,640)	841,219	(204,785)
0		0		0	0				0			0	0
(661,410)	1,625,228	(160,922)	(576,704)	548,036	(1,659,883)	(4,392)	34,150	0	(1,698,425)	(293,183)	(1,493,640)	841,219	(204,785)

Projected Interest on Dec-31-18 Balances				2.1.7 RRR		
Projected Interest from Jan 1, 2019 to Dec 31, 2019 on Dec 31, 2018 balance adjusted for disposition during 2019 <sup>2</sup>	Projected Interest from Jan 1, 2020 to Apr 30, 2020 on Dec 31, 2018 balance adjusted for disposition during 2019 <sup>2</sup>	Total Interest	Total Claim	Account Disposition: Yes/No?	As of Dec 31, 2018	Variance RRR vs. 2018 Balance (Principal + Interest)
2,326		3,655	107,167		294,431	0
(1,524)		(1,518)	(69,330)		(80,047)	0
(4,550)		15,174	(187,271)		(2,249,363)	(93,683)
		0	0		0	0
(1,054)		(1,995)	(48,893)		(93,683)	0
3,505		2,773	158,711		76,382	0
6,655		9,743	305,866		406,436	0
19,453		(13,108)	852,430	Yes	(768,799)	(495,997) Please provide an explanation of the variance in the Ma
(7,843)		3,404	(345,574)	Yes	688,100	0
		0	0	No	0	0
		0	0	No	0	0
		0	0	No	0	0
		1,065	0	No	107,263	0
893		(141,531)	(101,788)	Yes	(102,681)	0
1,045		(63,541)	0	No	(18,088)	0
				No		
		0	0			0
(7,843)	0	3,404	(345,574)		688,100	0
26,750	0	(189,282)	1,016,893		(2,334,486)	(495,997)
18,906	0	(185,879)	671,318		(1,646,386)	(495,997)
		0	0		(24,273)	(24,273) Please provide an explanation of the variance in the Ma
18,906	0	(185,879)	671,318		(1,670,659)	(520,270)

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Data on this worksheet has been populated using your most recent RRR filing.  
 If you have identified any issues, please contact the OEB.  
 Have you confirmed the accuracy of the data below?

If a distributor uses the actual GA price to bill non-RPP Class B customers for an entire rate class, it must exclude these customers from the allocation of the GA balance and the calculation of the resulting rate riders. These rate classes are not to be charged/refunded the general GA rate rider as they did not contribute to the GA balance.

Please contact the OEB to make adjustments to the IRM rate generator for this situation.

Rate Class	Unit	Total Metered kWh	Total Metered kW	Metered kWh for Non-RPP Customers (excluding WMP)	Metered kW for Non-RPP Customers (excluding WMP)	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 (2017) <sup>1</sup>	1568 LRAM Variance Account Class Allocation (\$ amounts)	Number of Customers for Residential and GS<50 classes <sup>3</sup>
RESIDENTIAL SERVICE CLASSIFICATION	kWh	413,689,291	0	9,396,122	0	0	0	413,689,291	0	28%		50,865
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	197,978,624	0	33,941,296	0	0	0	197,978,624	0	14%		5,841
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kW	706,516,405	1,820,376	600,936,918	1,585,803	8,585,533	0	697,930,872	1,820,376	48%		
LARGE USE SERVICE CLASSIFICATION	kW	98,366,842	173,376	98,366,842	173,376	0	0	98,366,842	173,376	7%		
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	2,629,283	0	141	0	0	0	2,629,283	0	0%		
STREET LIGHTING SERVICE CLASSIFICATION	kW	3,498,479	9,804	3,498,479	9,804	0	0	3,498,479	9,804	1%		
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW	36,001,231	85,275	36,001,231	85,275	0	0	36,001,231	85,275	2%		
<b>Total</b>		1,458,680,155	2,088,831	782,141,029	1,854,258	8,585,533	0	1,450,094,622	2,088,831	100%	0	56,706

**Threshold Test**

Total Claim (including Account 1568)	\$671,318
Total Claim for Threshold Test (All Group 1 Accounts)	\$671,318
Threshold Test (Total claim per kWh) <sup>2</sup>	\$0.0005 <b>Claim does not meet the threshold test.</b>

As per Section 3.2.5 of the 2019 Filing Requirements for Electricity Distribution Rate Applications, an applicant may elect to dispose of the Group 1 account balances below the threshold. If doing so, please select YES from the adjacent drop-down cell and also indicate so in the Manager's Summary. If not, please select NO.

YES

<sup>1</sup> Residual Account balance to be allocated to rate classes in proportion to the recovery share as established when rate riders were implemented.

<sup>2</sup> The Threshold Test does not include the amount in 1568.

<sup>3</sup> The proportion of customers for the Residential and GS<50 Classes will be used to allocate Account 1551.

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

No input required. This worksheet 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 Customer Numbers **	% of Total kWh adjusted for WMP	allocated based on Total less WMP			allocated based on Total less WMP				
				1550	1551	1580	1584	1586	1588	1595_(2017)	1568
RESIDENTIAL SERVICE CLASSIFICATION	28.4%	89.7%	28.5%	30,393	(62,189)	(67,374)	45,011	86,745	243,185	(28,860)	0
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	13.6%	10.3%	13.7%	14,545	(7,141)	(32,243)	21,541	41,514	116,381	(13,982)	0
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	48.4%	0.0%	48.1%	51,907	0	(113,666)	76,872	148,147	410,275	(49,192)	0
LARGE USE SERVICE CLASSIFICATION	6.7%	0.0%	6.8%	7,227	0	(16,020)	10,703	20,626	57,824	(6,631)	0
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	0.2%	0.0%	0.2%	193	0	(428)	286	551	1,546	(189)	0
STREET LIGHTING SERVICE CLASSIFICATION	0.2%	0.0%	0.2%	257	0	(570)	381	734	2,057	(543)	0
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	2.5%	0.0%	2.5%	2,645	0	(5,863)	3,917	7,549	21,163	(2,392)	0
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>107,167</b>	<b>(69,330)</b>	<b>(236,164)</b>	<b>158,711</b>	<b>305,866</b>	<b>852,430</b>	<b>(101,788)</b>	<b>0</b>

\*\* 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 Rate-setting Mechanism Rate Generator for 2020 Filers

1a The year Account 1589 GA was last disposed

1b The year Account 1580 CBR Class B was last disposed  Note that the sub-account was established in 2015.

2a Did you have any customers who transitioned between Class A and Class B (transition customers) during the period the Account 1589 GA balance accumulated (i.e. from the year after the balance was last disposed to the current year requested for disposition)?  (e.g. If you received approval to dispose of the GA variance account balance as at December 31, 2015, the period the GA variance accumulated would be 2016 to 2018.)

2b Did you have any customers who transitioned between Class A and Class B (transition customers) during the period the Account 1580, sub-account CBR Class B balance accumulated (i.e. from the year after the balance was last disposed to the current year requested for disposition)?  (e.g. If you received approval to dispose of the CBR Class B balance as at December 31, 2016, the period the CBR Class B variance accumulated would be 2017 to 2018.)

3a Enter the number of transition customer you had during the period the Account 1589 GA or Account 1580 CBR B balance accumulated

Transition Customers - Non-loss Adjusted Billing Determinants by Customer

Customer	Rate Class		2018	
			January to June	July to December
Customer 1	GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kWh	1,825,012	1,859,769
		kW	4,523	4,641
		Class A/B	B	A
Customer 2	GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kWh	1,790,900	1,786,433
		kW	5,874	5,835
		Class A/B	B	A

3b Enter the number of rate classes in which there were customers who were Class A for the full year during the period the Account 1589 GA or Account 1580 CBR B balance accumulated. Enter the total Class A consumption in the rate class in the table

Rate Classes with Class A Customers - Billing Determinants by Rate Class

Rate Class	Rate Class		2018	
Rate Class 1	LARGE USE SERVICE CLASSIFICATION	kWh		98,253,350
		kW		175,127
Rate Class 2	GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kWh		194,095,894
		kW		419,389

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

This tab allocates the GA balance to transition customers (i.e Class A customers who were former Class B customers and Class B customers who were former Class A customers) who contributed to the current GA balance. The tables below calculate specific amounts for each customer who made the change. The general GA rate rider to non-RPP customers is not to be charged to the transition customers that are allocated amounts in the table below. Consistent with prior decisions, distributors are generally expected to settle the amount through 12 equal adjustments to bills.

Year the Account 1589 GA Balance Last Disposed

2017

### Allocation of total Non-RPP Consumption (kWh) between Current Class B and Class A/B Transition Customers

		Total	2018
Non-RPP Consumption Less WMP Consumption	A	782,141,029	782,141,029
Less Class A Consumption for Partial Year Class A Customers	B	3,646,202	3,646,202
Less Consumption for Full Year Class A Customers	C	292,349,244	292,349,244
<b>Total Class B Consumption for Years During Balance Accumulation</b>	<b>D = A-B-C</b>	<b>486,145,583</b>	<b>486,145,583</b>
All Class B Consumption for Transition Customers	E	3,615,912	3,615,912
<b>Transition Customers' Portion of Total Consumption</b>	<b>F = E/D</b>	<b>0.74%</b>	

### Allocation of Total GA Balance \$

Total GA Balance	G	-\$	345,574
Transition Customers Portion of GA Balance	H=F*G	-\$	2,570
GA Balance to be disposed to Current Class B Customers through Rate Rider	I=G-H	-\$	343,004

### Allocation of GA Balances to Class A/B Transition Customers

Customer	# of Class A/B Transition Customers	Total Metered Consumption (kWh)		% of kWh	Customer Specific GA Allocation for the Period When They Were a Class B customer	Monthly Equal Payments
		for Transition Customers During the Period When They Were Class B Customers	for Transition Customers During the Period When They Were Class B Customers in 2018			
Customer 1	2	1,825,012	1,825,012	50.47%	\$ 1,297	-\$ 108
Customer 2		1,790,900	1,790,900	49.53%	\$ 1,273	-\$ 106
<b>Total</b>		<b>3,615,912</b>	<b>3,615,912</b>	<b>100.00%</b>	<b>-\$ 2,570</b>	

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

The purpose of this tab is to calculate the GA rate riders for all current Class B customers who did not transition between Class A and B in the period since the Account 1589 GA was last disposed. Calculations in this tab will be modified upon completion of tab 6.1a, which allocates a portion of the GA balance to transition customers, if applicable.

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)

Default Rate Rider Recovery Period (in months)	12
Proposed Rate Rider Recovery Period (in months)	12

Rate Rider Recovery to be used below

	Total Metered Non-RPP 2018 Consumption excluding WMP kWh	Total Metered 2018 Consumption for Class A Customers that were Class A for the entire period GA balance accumulated kWh	Total Metered 2018 Consumption for Customers that Transitioned Between Class A and B during the period GA balance accumulated kWh	Non-RPP Metered Consumption for Current Class B Customers (Non-RPP Consumption excluding WMP, Class A and Transition Customers' Consumption) kWh	% of total kWh	Total GA \$ allocated to Current Class B Customers	GA Rate Rider	
RESIDENTIAL SERVICE CLASSIFICATION	9,396,122	0	0	9,396,122	1.9%	(\$6,679)	-\$0.0007	kWh
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	33,941,296	0	0	33,941,296	7.0%	(\$24,127)	-\$0.0007	kWh
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	600,936,918	194,095,894	7,262,115	399,578,909	82.8%	(\$284,039)	-\$0.0007	kWh
LARGE USE SERVICE CLASSIFICATION	98,366,842	98,253,350	0	113,492	0.0%	(\$81)	-\$0.0007	kWh
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	141	0	0	141	0.0%	\$0	-\$0.0000	kWh
STREET LIGHTING SERVICE CLASSIFICATION	3,498,479	0	0	3,498,479	0.7%	(\$2,487)	-\$0.0007	kWh
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	36,001,231	0	0	36,001,231	7.5%	(\$25,591)	-\$0.0007	kWh
<b>Total</b>	782,141,029	292,349,244	7,262,115	482,529,670	100.0%	(\$343,004)		

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

This tab allocates the CBR Class B balance to transition customers (i.e. Class A customers who were former Class B customers and Class B customers who were former Class A customers) who contributed to the current CBR Class B balance. The tables below calculate specific amounts for each customer who made the change. The general CBR Class B rate rider is not to be charged to the transition customers that are allocated amounts in the table below. Consistent with prior decisions, distributors are generally expected to settle the amount through 12 equal adjustments to bills.

Year Account 1580 CBR Class B was Last Disposed

Allocation of Total Consumption (kWh) between Current Class B and Class A/B Transition Customers

		Total	2018
Total Consumption Less WMP Consumption	A	1,450,094,622	1,450,094,622
Less Class A Consumption for Partial Year Class A Customers	B	3,646,202	3,646,202
Less Consumption for Full Year Class A Customers	C	292,349,244	292,349,244
<b>Total Class B Consumption for Years During Balance Accumulation</b>	<b>D = A-B-C</b>	<b>1,154,099,176</b>	<b>1,154,099,176</b>
All Class B Consumption for Transition Customers	E	3,615,912	3,615,912
<b>Transition Customers' Portion of Total Consumption</b>	<b>F = E/D</b>	<b>0.31%</b>	

Allocation of Total CBR Class B Balance \$

Total CBR Class B Balance	G	-\$	48,893
Transition Customers Portion of CBR Class B Balance	H=F*G	-\$	153
CBR Class B Balance to be disposed to Current Class B Customers through Rate Rider	I=G-H	-\$	48,740

Allocation of CBR Class B Balances to Transition Customers

Customer	# of Class A/B Transition Customers	2		% of kWh	Customer Specific CBR Class B Allocation for the Period When They Were a Class B Customer	Monthly Equal Payments	Revised Monthly Payment
		Total Metered Class B Consumption (kWh) for Transition Customers During the Period When They were Class B Customers	Metered Class B Consumption (kWh) for Transition Customers During the Period When They were Class B Customers in 2018				
Customer 1		1,825,012	1,825,012	50.47%	77	-\$ 6	\$ -
Customer 2		1,790,900	1,790,900	49.53%	76	-\$ 6	\$ -
Total		3,615,912	3,615,912	100.00%	153	-\$ 13	\$ -

If the CBR Class B rate rider calculated in tab 6.2 rounds to zero at the fourth decimal place for one or more rate classes, the entire balance in Account 1580 CBR Class B, including the amount allocated to transition customers will be transferred to Account 1580 WMS and disposed through the general purpose Group 1 rate riders



## Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

No input required. The purpose of this tab is to calculate the CBR rate riders for all current Class B customers who did not transition between Class A and B in the period since the Account 1580, sub-account CBR Class B balance accumulated.

The year Account 1580 CBR Class B was last disposed 2017

		Total Metered 2018 Consumption Minus WMP		Total Metered 2018 Consumption for Full Year Class A Customers		Total Metered 2018 Consumption for Transition Customers		Metered Consumption for Current Class B Customers (Total Consumption LESS WMP, Class A and Transition Customers' Consumption)		% of total kWh	Total CBR Class B \$ allocated to Current Class B Customers	CBR Class B Rate Rider	Unit
		kWh	kW	kWh	kW	kWh	kW	kWh	kW				
RESIDENTIAL SERVICE CLASSIFICATION	kWh	413,689,291	0	0	0	0	0	413,689,291	0	36.0%	(\$17,526)	\$0.0000	kWh
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	197,978,624	0	0	0	0	0	197,978,624	0	17.2%	(\$8,387)	\$0.0000	kWh
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kW	697,930,872	1,820,376	194,095,894	419,389	7,262,115	20,873	496,572,863	1,380,114	43.2%	(\$21,037)	\$0.0000	kW
LARGE USE SERVICE CLASSIFICATION	kW	98,366,842	173,376	98,253,350	175,127	0	0	113,492	(1,751)	0.0%	(\$5)	\$0.0000	kW
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	2,629,283	0	0	0	0	0	2,629,283	0	0.2%	(\$111)	\$0.0000	kWh
STREET LIGHTING SERVICE CLASSIFICATION	kW	3,498,479	9,804	0	0	0	0	3,498,479	9,804	0.3%	(\$148)	\$0.0000	kW
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW	36,001,231	85,275	0	0	0	0	36,001,231	85,275	3.1%	(\$1,525)	\$0.0000	kW
<b>Total</b>		<b>1,450,094,622</b>	<b>2,088,831</b>	<b>292,349,244</b>	<b>594,516</b>	<b>7,262,115</b>	<b>20,873</b>	<b>1,150,483,263</b>	<b>1,473,442</b>	<b>100.0%</b>	<b>(\$48,739)</b>	<b>\$0.0000</b>	

If the allocated Account 1580 sub-account CBR Class B amount does not produce a rate rider in one or more rate class (except for the Standby rate class), the model will transfer the entire CBR Class B amount into Account 1580 WMS control account to be disposed through the general purpose Group 1 DVA rate riders.

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

**Input required at cells C13 and C14.** This worksheet 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	
DVA Proposed Rate Rider Recovery Period (in months)	12	Rate Rider Recovery to be used below
LRAM 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 <sup>2</sup>	Allocation of Group 1 Account Balances to Non-WMP Classes Only (if Applicable) <sup>2</sup>	Deferral/Variance Account Rate Rider for Account 1568			Revenue Reconciliation <sup>1</sup>
								Deferral/Variance Account Rate Rider <sup>2</sup>	Deferral/Variance Non-WMP (if applicable) <sup>2</sup>	Account 1568 Rate Rider	
RESIDENTIAL SERVICE CLASSIFICATION	kWh	413,689,291	0	413,689,291	0	246,912		0.0006	0.0000	0.0000	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	197,978,624	0	197,978,624	0	140,614		0.0007	0.0000	0.0000	
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kW	706,516,405	1,820,376	697,930,872	1,820,376	227,734	296,609	0.1251	0.1629	0.0000	
LARGE USE SERVICE CLASSIFICATION	kW	98,366,842	173,376	98,366,842	173,376	73,730		0.4253	0.0000	0.0000	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	2,629,283	0	2,629,283	0	1,959		0.0007	0.0000	0.0000	
STREET LIGHTING SERVICE CLASSIFICATION	kW	3,498,479	9,804	3,498,479	9,804	2,316		0.2362	0.0000	0.0000	
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW	36,001,231	85,275	36,001,231	85,275	27,019		0.3168	0.0000	0.0000	
<b>1,015,975.04</b>											

<sup>1</sup> When calculating the revenue reconciliation for distributors with Class A customers, the balances of sub-account 1580-CBR Class B will not be taken into consideration if there are Class A customers since the rate riders, if any, are calculated separately.

<sup>2</sup> 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 G and disposed through a combined Deferral/Variance Account and Rate Rider.



# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

## Summary - Sharing of Tax Change Forecast Amounts

	2016	2020
<b>OEB-Approved Rate Base</b>	\$ -	\$ -
<b>OEB-Approved Regulatory Taxable Income</b>	\$ -	\$ -
Federal General Rate		15.0%
Federal Small Business Rate		9.0%
Federal Small Business Rate (calculated effective rate) <sup>1,2</sup>		9.0%
Ontario General Rate		11.5%
Ontario Small Business Rate		3.5%
Ontario Small Business Rate (calculated effective rate) <sup>1,2</sup>		3.5%
Federal Small Business Limit		\$ 500,000
Ontario Small Business Limit		\$ 500,000
Federal Taxes Payable		\$ -
Provincial Taxes Payable		\$ -
Federal Effective Tax Rate		0.0%
Provincial Effective Tax Rate		0.0%
<b>Combined Effective Tax Rate</b>	0.0%	0.0%
Total Income Taxes Payable	\$ -	\$ -
OEB-Approved Total Tax Credits (enter as positive number)	\$ -	\$ -
<b>Income Tax Provision</b>	\$ -	\$ -
<b>Grossed-up Income Taxes</b>	\$ -	\$ -
<b>Incremental Grossed-up Tax Amount</b>		\$ -
<b>Sharing of Tax Amount (50%)</b>		\$ -

### Notes

- Regarding the small business deduction, if applicable,
  - If taxable capital exceeds \$15 million, the small business rate will not be applicable.
  - If taxable capital is below \$10 million, the small business rate would be applicable.
  - If taxable capital is between \$10 million and \$15 million, the appropriate small business rate will be calculated.
- The OEB's proxy for taxable capital is rate base.

# Incentive Rate-setting Mechanism Rate Generator for 2020 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 C through H.

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
RESIDENTIAL SERVICE CLASSIFICATION	kWh							0	0	0	0	0.0%	0.0%	0.0%	0.0%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh							0	0	0	0	0.0%	0.0%	0.0%	0.0%
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
LARGE USE SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh							0	0	0	0	0.0%	0.0%	0.0%	0.0%
STREET LIGHTING SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
<b>Total</b>		0	0	0				0	0	0	0	0.0%	0.0%	0.0%	0.0%

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	413,689,291		0	0.00 \$/customer
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	197,978,624		0	0.0000 kWh
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	kW	706,516,405	1,820,376	0	0.0000 kW
LARGE USE SERVICE CLASSIFICATION	kW	98,366,842	173,376	0	0.0000 kW
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	2,629,283		0	0.0000 kWh
STREET LIGHTING SERVICE CLASSIFICATION	kW	3,498,479	9,804	0	0.0000 kW
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	kW	36,001,231	85,275	0	0.0000 kW
<b>Total</b>		1,458,680,155	2,088,831	\$0	

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Columns E and F have been populated with data from the most recent RRR filing. Rate classes that have more than one Network or Connection charge will notice that the cells are highlighted in green and unlocked. If the data needs to be modified, please make the necessary adjustments and note the changes in your manager's summary. As well, the Loss Factor has been imported from Tab 2.

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	0.0067	413,689,291	0	1.0362	428,664,843	
Residential Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0025	413,689,291	0	1.0362	428,664,843	
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0062	197,978,624	0	1.0362	205,145,450	
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023	197,978,624	0	1.0362	205,145,450	
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - (less than 1,000 kW)	\$/kW	2.5492	224,487,290	641,480			
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	2.7077	287,940,380	757,348			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	2.7040	194,088,736	421,549			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - (less than 1,000 kW)	\$/kW	0.8842	224,487,290	641,480			
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.1043	287,940,380	757,348			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	1.1032	194,088,736	421,549			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
Large Use Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9978	98,366,842	173,376			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
Large Use Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.1082	98,366,842	173,376			For this line item, please ensure that the consumption and demand values have been adjusted to account for non-interval/interval customers.
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0062	2,629,283	0	1.0362	2,724,463	
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023	2,629,283	0	1.0362	2,724,463	
Street Lighting Service Classification	Retail Transmission Rate - Network Service Rate	\$/kW	1.9227	3,498,479	9,804			
Street Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.6833	3,498,479	9,804			

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Uniform Transmission Rates		2018	2019	2019 (July 1 - Dec 31)	2020
Rate Description	Unit	Rate	Rate	Rate	Rate
Network Service Rate	kW	\$ 3.61	\$ 3.71	\$ 3.83	\$ 3.83
Line Connection Service Rate	kW	\$ 0.95	\$ 0.94	\$ 0.96	\$ 0.96
Transformation Connection Service Rate	kW	\$ 2.34	\$ 2.25	\$ 2.30	\$ 2.30

Hydro One Sub-Transmission Rates		2018	2019 (Jan 1 - June 30)	2019 (July 1 - Dec 31)	2020
Rate Description	Unit	Rate	Rate	Rate	Rate
Network Service Rate	kW	\$ 3.1942	\$ 3.1942	\$ 3.2915	\$ 3.2915
Line Connection Service Rate	kW	\$ 0.7710	\$ 0.7710	\$ 0.7877	\$ 0.7877
Transformation Connection Service Rate	kW	\$ 1.7493	\$ 1.7493	\$ 1.9755	\$ 1.9755
Both Line and Transformation Connection Service Rate	kW	\$ 2.5203	\$ 2.5203	\$ 2.7632	\$ 2.7632

If needed, add extra host here. (I)		2018	2019	2020
Rate Description	Unit	Rate	Rate	Rate
Network Service Rate	kW		\$ 2.57	\$ 2.57
Line Connection Service Rate	kW		\$ 0.80	\$ 0.80
Transformation Connection Service Rate	kW			
Both Line and Transformation Connection Service Rate	kW	\$ -	\$ 0.80	\$ 0.80

If needed, add extra host here. (II)		2018	2019	2020
Rate Description	Unit	Rate	Rate	Rate
Network Service Rate	kW		\$ 2.52	\$ 2.52
Line Connection Service Rate	kW		\$ 1.86	\$ 1.86
Transformation Connection Service Rate	kW			
Both Line and Transformation Connection Service Rate	kW	\$ -	\$ 1.86	\$ 1.86

Low Voltage Switchgear Credit (if applicable, enter as a negative value)	\$	Historical 2018	Current 2019	Forecast 2020

# Incentive Rate-setting Mechanism Rate Generator for 2020 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 red, 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 Month	Network			Line Connection			Transformation Connection			Total Connection Amount
	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	
January	205,666	\$3.61	\$ 742,454	216,835	\$0.95	\$ 205,993	23,132	\$2.34	\$ 54,129	\$ 260,122
February	195,729	\$3.61	\$ 706,582	200,216	\$0.95	\$ 190,205	24,499	\$2.34	\$ 57,328	\$ 247,533
March	184,744	\$3.61	\$ 666,926	191,945	\$0.95	\$ 182,253	26,485	\$2.34	\$ 61,975	\$ 244,228
April	185,272	\$3.61	\$ 668,832	190,219	\$0.95	\$ 180,708	27,359	\$2.34	\$ 64,020	\$ 244,728
May	233,669	\$3.61	\$ 843,545	241,527	\$0.95	\$ 229,451	24,333	\$2.34	\$ 56,939	\$ 286,390
June	225,269	\$3.61	\$ 813,221	247,348	\$0.95	\$ 234,981	25,931	\$2.34	\$ 60,679	\$ 295,659
July	257,253	\$3.61	\$ 928,683	267,263	\$0.95	\$ 253,900	26,250	\$2.34	\$ 61,425	\$ 315,325
August	237,152	\$3.61	\$ 856,119	244,233	\$0.95	\$ 232,021	25,959	\$2.34	\$ 60,744	\$ 292,765
September	262,169	\$3.61	\$ 946,430	265,530	\$0.95	\$ 252,254	27,528	\$2.34	\$ 64,416	\$ 316,669
October	192,838	\$3.61	\$ 696,145	201,154	\$0.95	\$ 191,096	22,847	\$2.34	\$ 53,462	\$ 244,558
November	191,469	\$3.61	\$ 691,203	197,314	\$0.95	\$ 187,448	24,493	\$2.34	\$ 57,314	\$ 244,762
December	185,664	\$3.61	\$ 670,247	199,053	\$0.95	\$ 189,100	24,019	\$2.34	\$ 56,204	\$ 245,305
<b>Total</b>	<b>2,556,894</b>	<b>\$ 3.61</b>	<b>\$ 9,230,387</b>	<b>2,662,537</b>	<b>\$ 0.95</b>	<b>\$ 2,529,410</b>	<b>302,835</b>	<b>\$ 2.34</b>	<b>\$ 708,634</b>	<b>\$ 3,238,044</b>

Hydro One Month	Network			Line Connection			Transformation Connection			Total Connection Amount
	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	
January	6,538	\$3.1942	\$ 20,884	6,705	\$0.7710	\$ 5,169	6,705	\$1.7493	\$ 11,728	\$ 16,898
February	6,256	\$3.1942	\$ 19,982	6,323	\$0.7710	\$ 4,875	6,323	\$1.7493	\$ 11,061	\$ 15,936
March	7,277	\$3.1942	\$ 23,245	7,305	\$0.7710	\$ 5,632	7,305	\$1.7493	\$ 12,778	\$ 18,410
April	5,296	\$3.1942	\$ 16,915	5,296	\$0.7710	\$ 4,083	5,296	\$1.7493	\$ 9,264	\$ 13,346
May	5,786	\$3.1942	\$ 18,482	5,961	\$0.7710	\$ 4,596	5,961	\$1.7493	\$ 10,427	\$ 15,023
June	5,840	\$3.1942	\$ 18,654	6,142	\$0.7710	\$ 4,736	6,142	\$1.7493	\$ 10,745	\$ 15,481
July	5,643	\$3.1942	\$ 18,026	5,700	\$0.7710	\$ 4,395	5,700	\$1.7493	\$ 9,971	\$ 14,365
August	5,327	\$3.1942	\$ 17,016	5,404	\$0.7710	\$ 4,166	5,404	\$1.7493	\$ 9,453	\$ 13,619
September	5,600	\$3.1942	\$ 17,886	5,666	\$0.7710	\$ 4,369	5,666	\$1.7493	\$ 9,912	\$ 14,280
October	5,048	\$3.1942	\$ 16,123	5,286	\$0.7710	\$ 4,075	5,286	\$1.7493	\$ 9,247	\$ 13,322
November	4,710	\$3.1942	\$ 15,046	4,731	\$0.7710	\$ 3,647	4,731	\$1.7493	\$ 8,275	\$ 11,923
December	5,297	\$3.1942	\$ 16,920	5,416	\$0.7710	\$ 4,176	5,416	\$1.7493	\$ 9,474	\$ 13,649
<b>Total</b>	<b>68,616</b>	<b>\$ 3.1942</b>	<b>\$ 219,180</b>	<b>69,933</b>	<b>\$ 0.7710</b>	<b>\$ 53,916</b>	<b>69,933</b>	<b>\$ 1.7493</b>	<b>\$ 122,334</b>	<b>\$ 176,253</b>

Add Extra Host Here (I) (if needed) Month	Network			Line Connection			Transformation Connection			Total Connection Amount
	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	
January	3,940	\$ 2,5629	\$ 10,097	3,940	\$ 0.7578	\$ 2,986				\$ 2,986
February	3,638	\$ 2,5629	\$ 9,323	3,638	\$ 0.7578	\$ 2,757				\$ 2,757
March	3,287	\$ 2,5629	\$ 8,423	3,308	\$ 0.7578	\$ 2,507				\$ 2,507
April	3,287	\$ 2,5629	\$ 8,425	3,287	\$ 0.7578	\$ 2,491				\$ 2,491
May	-	-	-	-	-	-				\$ -
June	-	-	-	-	-	-				\$ -
July	-	-	-	-	-	-				\$ -
August	4,049	\$ 2,5629	\$ 10,377	4,105	\$ 0.7578	\$ 3,111				\$ 3,111
September	4,168	\$ 2,5629	\$ 10,682	4,316	\$ 0.7578	\$ 3,271				\$ 3,271
October	3,063	\$ 2,5629	\$ 7,851	3,128	\$ 0.7578	\$ 2,371				\$ 2,371
November	3,642	\$ 2,5629	\$ 9,334	3,642	\$ 0.7578	\$ 2,760				\$ 2,760
December	3,701	\$ 2,5629	\$ 9,485	3,701	\$ 0.7578	\$ 2,805				\$ 2,805
<b>Total</b>	<b>32,774</b>	<b>\$ 2.56</b>	<b>\$ 83,907</b>	<b>33,065</b>	<b>\$ 0.76</b>	<b>\$ 25,057</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 25,057</b>

Add Extra Host Here (II) (if needed) Month	Network			Line Connection			Transformation Connection			Total Connection Amount
	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	
January	10,854	\$ 2,8439	\$ 30,868	10,854	\$ 2.0406	\$ 22,149				\$ 22,149
February	9,019	\$ 2,8439	\$ 25,649	9,125	\$ 2.0406	\$ 18,621				\$ 18,621
March	8,483	\$ 2,8439	\$ 24,125	8,522	\$ 2.0406	\$ 17,390				\$ 17,390
April	8,509	\$ 2,8439	\$ 24,199	8,656	\$ 2.0406	\$ 17,664				\$ 17,664
May	9,792	\$ 2,4156	\$ 23,628	9,782	\$ 1.9849	\$ 19,416				\$ 19,416
June	9,653	\$ 2,4156	\$ 23,317	9,653	\$ 1.9849	\$ 19,159				\$ 19,159
July	10,348	\$ 2,4156	\$ 24,907	10,348	\$ 1.9849	\$ 20,540				\$ 20,540
August	10,116	\$ 2,4156	\$ 24,436	10,116	\$ 1.9849	\$ 20,079				\$ 20,079
September	10,511	\$ 2,4156	\$ 25,391	10,511	\$ 1.9849	\$ 20,863				\$ 20,863
October	8,411	\$ 2,4156	\$ 20,318	8,631	\$ 1.9849	\$ 17,132				\$ 17,132
November	9,771	\$ 2,4156	\$ 23,602	9,771	\$ 1.9849	\$ 19,393				\$ 19,393
December	9,500	\$ 2,4156	\$ 22,949	9,500	\$ 1.9849	\$ 18,857				\$ 18,857
<b>Total</b>	<b>114,957</b>	<b>\$ 2.55</b>	<b>\$ 293,479</b>	<b>115,469</b>	<b>\$ 2.00</b>	<b>\$ 231,264</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 231,264</b>

Month	Network			Line Connection			Transformation Connection			Total Connection Amount
	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	
January	226,998	\$ 3.5432	\$ 804,304	238,333	\$ 0.9915	\$ 236,297	29,837	\$ 2.2073	\$ 65,857	\$ 302,154
February	214,641	\$ 3.5479	\$ 761,535	219,302	\$ 0.9870	\$ 216,458	30,822	\$ 2.2188	\$ 68,389	\$ 284,846
March	203,791	\$ 3.5464	\$ 722,719	210,980	\$ 0.9848	\$ 207,782	33,790	\$ 2.2123	\$ 74,753	\$ 282,535
April	202,364	\$ 3.5499	\$ 713,371	207,458	\$ 0.9879	\$ 204,945	32,655	\$ 2.2442	\$ 73,284	\$ 278,229
May	249,237	\$ 3.5535	\$ 885,656	257,269	\$ 0.9852	\$ 253,462	30,294	\$ 2.2238	\$ 67,366	\$ 320,828
June	240,761	\$ 3.5520	\$ 855,191	263,143	\$ 0.9838	\$ 258,876	32,073	\$ 2.2269	\$ 71,423	\$ 330,299
July	273,245	\$ 3.5562	\$ 971,707	283,311	\$ 0.9842	\$ 278,835	31,950	\$ 2.2346	\$ 71,396	\$ 350,230
August	256,644	\$ 3.5378	\$ 907,948	263,858	\$ 0.9830	\$ 259,378	31,363	\$ 2.2382	\$ 70,197	\$ 329,575
September	282,448	\$ 3.5419	\$ 1,000,389	286,024	\$ 0.9816	\$ 280,756	33,194	\$ 2.2302	\$ 74,327	\$ 355,084
October	209,360	\$ 3.5367	\$ 740,437	218,200	\$ 0.9838	\$ 214,674	28,133	\$ 2.2290	\$ 62,709	\$ 277,383
November	209,592	\$ 3.5268	\$ 739,184	215,457	\$ 0.9898	\$ 213,249	29,224	\$ 2.2444	\$ 65,589	\$ 278,838
December	204,162	\$ 3.5247	\$ 719,601	217,670	\$ 0.9874	\$ 214,938	29,435	\$ 2.2313	\$ 65,678	\$ 280,616
<b>Total</b>	<b>2,773,243</b>	<b>\$ 3.54</b>	<b>\$ 9,827,043</b>	<b>2,881,004</b>	<b>\$ 0.99</b>	<b>\$ 2,839,650</b>	<b>372,768</b>	<b>\$ 2.23</b>	<b>\$ 830,968</b>	<b>\$ 3,670,617</b>

Low Voltage Switchgear Credit (if applicable)	Amount
	\$ -
<b>Total including deduction for Low Voltage Switchgear Credit</b>	<b>\$ 3,670,617</b>

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

The purpose of this sheet is to calculate the expected billing when current 2019 Uniform Transmission Rates are applied against historical 2018 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Connection
	Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	
January	205,666	\$ 3,710	\$ 763,021	216,835	\$ 0.9400	\$ 203,825	23,132	\$ 2,2500	\$ 52,047	\$ 255,872
February	195,729	\$ 3,710	\$ 726,155	200,216	\$ 0.9400	\$ 188,203	24,499	\$ 2,2500	\$ 55,123	\$ 243,326
March	184,744	\$ 3,710	\$ 685,400	191,845	\$ 0.9400	\$ 180,334	26,485	\$ 2,2500	\$ 59,591	\$ 239,926
April	185,272	\$ 3,710	\$ 687,359	190,219	\$ 0.9400	\$ 178,806	27,359	\$ 2,2500	\$ 61,558	\$ 240,364
May	233,669	\$ 3,710	\$ 866,912	241,527	\$ 0.9400	\$ 227,035	24,333	\$ 2,2500	\$ 54,749	\$ 281,785
June	225,269	\$ 3,710	\$ 835,748	247,348	\$ 0.9400	\$ 232,507	25,931	\$ 2,2500	\$ 58,345	\$ 290,852
July	257,253	\$ 3,8300	\$ 985,279	267,263	\$ 0.9600	\$ 256,572	26,250	\$ 2,3000	\$ 60,375	\$ 316,947
August	237,152	\$ 3,8300	\$ 908,292	244,233	\$ 0.9600	\$ 234,464	25,959	\$ 2,3000	\$ 59,706	\$ 294,169
September	262,169	\$ 3,8300	\$ 1,004,107	265,530	\$ 0.9600	\$ 254,909	27,528	\$ 2,3000	\$ 63,314	\$ 318,223
October	192,838	\$ 3,8300	\$ 738,570	201,154	\$ 0.9600	\$ 193,108	22,847	\$ 2,3000	\$ 52,548	\$ 245,656
November	191,469	\$ 3,8300	\$ 733,326	197,314	\$ 0.9600	\$ 189,421	24,493	\$ 2,3000	\$ 56,334	\$ 245,755
December	185,664	\$ 3,8300	\$ 711,093	199,053	\$ 0.9600	\$ 191,091	24,019	\$ 2,3000	\$ 55,244	\$ 246,335
<b>Total</b>	<b>2,556,894</b>	<b>\$ 3.77</b>	<b>\$ 9,645,262</b>	<b>2,662,537</b>	<b>\$ 0.95</b>	<b>\$ 2,530,276</b>	<b>302,835</b>	<b>\$ 2.27</b>	<b>\$ 688,934</b>	<b>\$ 3,219,209</b>

Hydro One	Network			Line Connection			Transformation Connection			Total Connection
	Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	
January	6,538	\$ 3,1942	\$ 20,884	6,705	\$ 0.7710	\$ 5,169	6,705	\$ 1,7493	\$ 11,728	\$ 16,898
February	6,256	\$ 3,1942	\$ 19,882	6,323	\$ 0.7710	\$ 4,875	6,323	\$ 1,7493	\$ 11,061	\$ 15,936
March	7,277	\$ 3,1942	\$ 23,245	7,305	\$ 0.7710	\$ 5,632	7,305	\$ 1,7493	\$ 12,778	\$ 18,410
April	5,296	\$ 3,1942	\$ 16,915	5,296	\$ 0.7710	\$ 4,083	5,296	\$ 1,7493	\$ 9,264	\$ 13,346
May	5,786	\$ 3,1942	\$ 18,482	5,961	\$ 0.7710	\$ 4,596	5,961	\$ 1,7493	\$ 10,427	\$ 15,023
June	5,840	\$ 3,1942	\$ 18,654	6,142	\$ 0.7710	\$ 4,736	6,142	\$ 1,7493	\$ 10,745	\$ 15,481
July	5,643	\$ 3,2915	\$ 18,575	5,700	\$ 0.7877	\$ 4,490	5,700	\$ 1,9755	\$ 11,260	\$ 15,750
August	5,327	\$ 3,2915	\$ 17,534	5,404	\$ 0.7877	\$ 4,257	5,404	\$ 1,9755	\$ 10,675	\$ 14,932
September	5,600	\$ 3,2915	\$ 18,431	5,666	\$ 0.7877	\$ 4,463	5,666	\$ 1,9755	\$ 11,194	\$ 15,657
October	5,048	\$ 3,2915	\$ 16,614	5,286	\$ 0.7877	\$ 4,164	5,286	\$ 1,9755	\$ 10,442	\$ 14,606
November	4,710	\$ 3,2915	\$ 15,504	4,731	\$ 0.7877	\$ 3,726	4,731	\$ 1,9755	\$ 9,345	\$ 13,072
December	5,297	\$ 3,2915	\$ 17,435	5,416	\$ 0.7877	\$ 4,266	5,416	\$ 1,9755	\$ 10,699	\$ 14,965
<b>Total</b>	<b>68,616</b>	<b>\$ 3.24</b>	<b>\$ 222,257</b>	<b>69,933</b>	<b>\$ 0.78</b>	<b>\$ 54,456</b>	<b>69,933</b>	<b>\$ 1.85</b>	<b>\$ 129,618</b>	<b>\$ 184,074</b>

Add Extra Host Here (I)	Network			Line Connection			Transformation Connection			Total Connection
	Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	
January	3,940	\$ 2,5650	\$ 10,105	3,940	\$ 0.7970	\$ 3,140	-	\$ -	\$ -	\$ 3,140
February	3,638	\$ 2,5650	\$ 9,330	3,638	\$ 0.7970	\$ 2,899	-	\$ -	\$ -	\$ 2,899
March	3,287	\$ 2,5650	\$ 8,430	3,308	\$ 0.7970	\$ 2,636	-	\$ -	\$ -	\$ 2,636
April	3,287	\$ 2,5650	\$ 8,431	3,287	\$ 0.7970	\$ 2,620	-	\$ -	\$ -	\$ 2,620
May	-	\$ 2,5650	\$ -	-	\$ 0.7970	\$ -	-	\$ -	\$ -	\$ -
June	-	\$ 2,5650	\$ -	-	\$ 0.7970	\$ -	-	\$ -	\$ -	\$ -
July	-	\$ 2,5650	\$ -	-	\$ 0.7970	\$ -	-	\$ -	\$ -	\$ -
August	4,049	\$ 2,5650	\$ 10,386	4,105	\$ 0.7970	\$ 3,272	-	\$ -	\$ -	\$ 3,272
September	4,168	\$ 2,5650	\$ 10,691	4,316	\$ 0.7970	\$ 3,440	-	\$ -	\$ -	\$ 3,440
October	3,063	\$ 2,5650	\$ 7,857	3,128	\$ 0.7970	\$ 2,493	-	\$ -	\$ -	\$ 2,493
November	3,642	\$ 2,5650	\$ 9,341	3,642	\$ 0.7970	\$ 2,903	-	\$ -	\$ -	\$ 2,903
December	3,701	\$ 2,5650	\$ 9,493	3,701	\$ 0.7970	\$ 2,950	-	\$ -	\$ -	\$ 2,950
<b>Total</b>	<b>32,774</b>	<b>\$ 2.57</b>	<b>\$ 84,066</b>	<b>33,065</b>	<b>\$ 0.80</b>	<b>\$ 26,353</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 26,353</b>

Add Extra Host Here (II)	Network			Line Connection			Transformation Connection			Total Connection
	Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	
January	10,854	\$ 2,5185	\$ 27,336	10,854	\$ 1,8550	\$ 20,134	-	\$ -	\$ -	\$ 20,134
February	9,019	\$ 2,5185	\$ 22,714	9,125	\$ 1,8550	\$ 16,927	-	\$ -	\$ -	\$ 16,927
March	8,483	\$ 2,5185	\$ 21,364	8,522	\$ 1,8550	\$ 15,809	-	\$ -	\$ -	\$ 15,809
April	8,509	\$ 2,5185	\$ 21,430	8,656	\$ 1,8550	\$ 16,057	-	\$ -	\$ -	\$ 16,057
May	9,782	\$ 2,5185	\$ 24,635	9,782	\$ 1,8550	\$ 18,145	-	\$ -	\$ -	\$ 18,145
June	9,653	\$ 2,5185	\$ 24,310	9,653	\$ 1,8550	\$ 17,905	-	\$ -	\$ -	\$ 17,905
July	10,348	\$ 2,5185	\$ 26,062	10,348	\$ 1,8550	\$ 19,196	-	\$ -	\$ -	\$ 19,196
August	10,116	\$ 2,5185	\$ 25,477	10,116	\$ 1,8550	\$ 18,765	-	\$ -	\$ -	\$ 18,765
September	10,511	\$ 2,5185	\$ 26,472	10,511	\$ 1,8550	\$ 19,498	-	\$ -	\$ -	\$ 19,498
October	8,411	\$ 2,5185	\$ 21,184	8,631	\$ 1,8550	\$ 16,011	-	\$ -	\$ -	\$ 16,011
November	9,771	\$ 2,5185	\$ 24,607	9,771	\$ 1,8550	\$ 18,124	-	\$ -	\$ -	\$ 18,124
December	9,500	\$ 2,5185	\$ 23,927	9,500	\$ 1,8550	\$ 17,623	-	\$ -	\$ -	\$ 17,623
<b>Total</b>	<b>114,957</b>	<b>\$ 2.52</b>	<b>\$ 289,518</b>	<b>115,469</b>	<b>\$ 1.86</b>	<b>\$ 214,195</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 214,195</b>

Total	Network			Line Connection			Transformation Connection			Total Connection
	Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	
January	226,998	\$ 3,6183	\$ 821,347	238,333	\$ 0.9746	\$ 232,268	29,837	\$ 2,1375	\$ 63,775	\$ 296,044
February	214,641	\$ 3,6255	\$ 778,181	219,302	\$ 0.9708	\$ 212,905	30,822	\$ 2,1473	\$ 66,184	\$ 279,088
March	203,791	\$ 3,6235	\$ 738,440	210,980	\$ 0.9689	\$ 204,411	33,790	\$ 2,1418	\$ 72,369	\$ 276,780
April	202,364	\$ 3,6278	\$ 734,136	207,458	\$ 0.9716	\$ 201,566	32,655	\$ 2,1688	\$ 70,821	\$ 272,387
May	249,237	\$ 3,6513	\$ 910,029	257,269	\$ 0.9709	\$ 249,776	30,294	\$ 2,1515	\$ 65,176	\$ 314,953
June	240,761	\$ 3,6497	\$ 878,712	263,143	\$ 0.9696	\$ 255,148	32,073	\$ 2,1541	\$ 69,090	\$ 324,238
July	273,245	\$ 3,7692	\$ 1,029,917	283,311	\$ 0.9892	\$ 280,258	31,950	\$ 2,2421	\$ 71,635	\$ 351,893
August	256,644	\$ 3,7472	\$ 961,689	263,859	\$ 0.9882	\$ 260,757	31,363	\$ 2,2441	\$ 70,381	\$ 331,138
September	282,448	\$ 3,7519	\$ 1,059,702	286,024	\$ 0.9870	\$ 282,310	33,194	\$ 2,2446	\$ 74,508	\$ 356,818
October	209,360	\$ 3,7458	\$ 784,225	218,200	\$ 0.9889	\$ 215,776	28,133	\$ 2,2390	\$ 62,991	\$ 278,766
November	209,592	\$ 3,7348	\$ 782,779	215,457	\$ 0.9840	\$ 214,175	29,224	\$ 2,2475	\$ 65,679	\$ 279,854
December	204,162	\$ 3,7321	\$ 761,948	217,670	\$ 0.9920	\$ 215,930	29,435	\$ 2,2403	\$ 65,943	\$ 281,872
<b>Total</b>	<b>2,773,243</b>	<b>\$ 3.69</b>	<b>\$ 10,241,103</b>	<b>2,881,004</b>	<b>\$ 0.98</b>	<b>\$ 2,825,280</b>	<b>372,768</b>	<b>\$ 2.20</b>	<b>\$ 818,552</b>	<b>\$ 3,643,832</b>

Low Voltage Switchgear Credit (if applicable) \$ -

**Total including deduction for Low Voltage Switchgear Credit \$ 3,643,832**



# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

The purpose of this sheet is to calculate the expected billing when forecasted 2019 Uniform Transmission Rates are applied against historical 2018 transmission units.

IESO	Network			Line Connection			Transformation Connection			Total Connection
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	205,666	\$ 3,8300	\$ 787,701	216,835	\$ 0.9600	\$ 208,162	23,132	\$ 2,3000	\$ 53,204	\$ 261,365
February	195,729	\$ 3,8300	\$ 749,642	200,216	\$ 0.9600	\$ 192,207	24,499	\$ 2,3000	\$ 56,348	\$ 248,555
March	184,744	\$ 3,8300	\$ 707,570	191,845	\$ 0.9600	\$ 184,171	26,485	\$ 2,3000	\$ 60,916	\$ 245,087
April	185,272	\$ 3,8300	\$ 709,592	190,219	\$ 0.9600	\$ 182,610	27,359	\$ 2,3000	\$ 62,926	\$ 245,536
May	233,869	\$ 3,8300	\$ 894,952	241,527	\$ 0.9600	\$ 231,866	24,333	\$ 2,3000	\$ 55,966	\$ 287,832
June	225,269	\$ 3,8300	\$ 862,780	247,348	\$ 0.9600	\$ 237,454	25,931	\$ 2,3000	\$ 59,641	\$ 297,095
July	257,253	\$ 3,8300	\$ 985,279	267,263	\$ 0.9600	\$ 256,572	26,250	\$ 2,3000	\$ 60,375	\$ 316,947
August	237,152	\$ 3,8300	\$ 908,292	244,233	\$ 0.9600	\$ 234,464	25,959	\$ 2,3000	\$ 59,706	\$ 294,169
September	262,169	\$ 3,8300	\$ 1,004,107	265,530	\$ 0.9600	\$ 254,909	27,528	\$ 2,3000	\$ 63,314	\$ 318,223
October	192,838	\$ 3,8300	\$ 738,570	201,154	\$ 0.9600	\$ 193,108	22,847	\$ 2,3000	\$ 52,548	\$ 245,656
November	191,469	\$ 3,8300	\$ 733,326	197,314	\$ 0.9600	\$ 189,421	24,493	\$ 2,3000	\$ 56,334	\$ 245,755
December	185,664	\$ 3,8300	\$ 711,093	199,053	\$ 0.9600	\$ 191,091	24,019	\$ 2,3000	\$ 55,244	\$ 246,335
<b>Total</b>	<b>2,556,894</b>	<b>\$ 3.83</b>	<b>\$ 9,792,904</b>	<b>2,662,537</b>	<b>\$ 0.96</b>	<b>\$ 2,556,036</b>	<b>302,835</b>	<b>\$ 2.30</b>	<b>\$ 696,521</b>	<b>\$ 3,252,556</b>
<b>Hydro One</b>										
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	6,538	\$ 3,2915	\$ 21,520	6,705	\$ 0.7877	\$ 5,281	6,705	\$ 1,9755	\$ 13,245	\$ 18,526
February	6,256	\$ 3,2915	\$ 20,591	6,323	\$ 0.7877	\$ 4,981	6,323	\$ 1,9755	\$ 12,491	\$ 17,472
March	7,277	\$ 3,2915	\$ 23,953	7,305	\$ 0.7877	\$ 5,754	7,305	\$ 1,9755	\$ 14,430	\$ 20,184
April	5,296	\$ 3,2915	\$ 17,430	5,296	\$ 0.7877	\$ 4,171	5,296	\$ 1,9755	\$ 10,461	\$ 14,633
May	5,786	\$ 3,2915	\$ 19,045	5,961	\$ 0.7877	\$ 4,695	5,961	\$ 1,9755	\$ 11,776	\$ 16,471
June	5,840	\$ 3,2915	\$ 19,222	6,142	\$ 0.7877	\$ 4,838	6,142	\$ 1,9755	\$ 12,134	\$ 16,973
July	5,643	\$ 3,2915	\$ 18,575	5,709	\$ 0.7877	\$ 4,490	5,709	\$ 1,9755	\$ 11,280	\$ 15,750
August	5,527	\$ 3,2915	\$ 18,234	5,404	\$ 0.7877	\$ 4,257	5,404	\$ 1,9755	\$ 10,676	\$ 14,932
September	5,600	\$ 3,2915	\$ 18,431	5,668	\$ 0.7877	\$ 4,463	5,668	\$ 1,9755	\$ 11,194	\$ 15,657
October	5,048	\$ 3,2915	\$ 16,614	5,286	\$ 0.7877	\$ 4,164	5,286	\$ 1,9755	\$ 10,442	\$ 14,606
November	4,710	\$ 3,2915	\$ 15,504	4,731	\$ 0.7877	\$ 3,726	4,731	\$ 1,9755	\$ 9,345	\$ 13,072
December	5,297	\$ 3,2915	\$ 17,435	5,416	\$ 0.7877	\$ 4,266	5,416	\$ 1,9755	\$ 10,699	\$ 14,965
<b>Total</b>	<b>68,618</b>	<b>\$ 3.29</b>	<b>\$ 225,857</b>	<b>69,933</b>	<b>\$ 0.79</b>	<b>\$ 55,086</b>	<b>69,933</b>	<b>\$ 1.98</b>	<b>\$ 138,153</b>	<b>\$ 193,239</b>
<b>Add Extra Host Here (I)</b>										
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	3,940	\$ 2,5650	\$ 10,105	3,940	\$ 0.7970	\$ 3,140	-	\$ -	\$ -	\$ 3,140
February	3,638	\$ 2,5650	\$ 9,330	3,638	\$ 0.7970	\$ 2,899	-	\$ -	\$ -	\$ 2,899
March	3,287	\$ 2,5650	\$ 8,430	3,308	\$ 0.7970	\$ 2,636	-	\$ -	\$ -	\$ 2,636
April	3,287	\$ 2,5650	\$ 8,431	3,287	\$ 0.7970	\$ 2,620	-	\$ -	\$ -	\$ 2,620
May	-	\$ 2,5650	\$ -	-	\$ 0.7970	\$ -	-	\$ -	\$ -	\$ -
June	-	\$ 2,5650	\$ -	-	\$ 0.7970	\$ -	-	\$ -	\$ -	\$ -
July	-	\$ 2,5650	\$ -	-	\$ 0.7970	\$ -	-	\$ -	\$ -	\$ -
August	4,049	\$ 2,5650	\$ 10,386	4,105	\$ 0.7970	\$ 3,272	-	\$ -	\$ -	\$ 3,272
September	4,168	\$ 2,5650	\$ 10,691	4,316	\$ 0.7970	\$ 3,440	-	\$ -	\$ -	\$ 3,440
October	3,063	\$ 2,5650	\$ 7,857	3,128	\$ 0.7970	\$ 2,493	-	\$ -	\$ -	\$ 2,493
November	3,542	\$ 2,5650	\$ 9,341	3,542	\$ 0.7970	\$ 2,903	-	\$ -	\$ -	\$ 2,903
December	3,701	\$ 2,5650	\$ 9,493	3,701	\$ 0.7970	\$ 2,950	-	\$ -	\$ -	\$ 2,950
<b>Total</b>	<b>32,774</b>	<b>\$ 2.57</b>	<b>\$ 84,066</b>	<b>33,065</b>	<b>\$ 0.80</b>	<b>\$ 26,353</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 26,353</b>
<b>Add Extra Host Here (II)</b>										
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	10,854	\$ 2,5185	\$ 27,336	10,854	\$ 1,8550	\$ 20,134	-	\$ -	\$ -	\$ 20,134
February	9,019	\$ 2,5185	\$ 22,714	9,125	\$ 1,8550	\$ 16,927	-	\$ -	\$ -	\$ 16,927
March	8,483	\$ 2,5185	\$ 21,364	8,522	\$ 1,8550	\$ 15,809	-	\$ -	\$ -	\$ 15,809
April	8,509	\$ 2,5185	\$ 21,430	8,656	\$ 1,8550	\$ 16,057	-	\$ -	\$ -	\$ 16,057
May	9,782	\$ 2,5185	\$ 24,635	9,782	\$ 1,8550	\$ 18,145	-	\$ -	\$ -	\$ 18,145
June	9,653	\$ 2,5185	\$ 24,310	9,653	\$ 1,8550	\$ 17,905	-	\$ -	\$ -	\$ 17,905
July	10,348	\$ 2,5185	\$ 26,062	10,348	\$ 1,8550	\$ 19,196	-	\$ -	\$ -	\$ 19,196
August	10,116	\$ 2,5185	\$ 25,477	10,116	\$ 1,8550	\$ 18,765	-	\$ -	\$ -	\$ 18,765
September	10,511	\$ 2,5185	\$ 26,472	10,511	\$ 1,8550	\$ 19,498	-	\$ -	\$ -	\$ 19,498
October	8,411	\$ 2,5185	\$ 21,184	8,631	\$ 1,8550	\$ 16,011	-	\$ -	\$ -	\$ 16,011
November	9,771	\$ 2,5185	\$ 24,607	9,771	\$ 1,8550	\$ 18,124	-	\$ -	\$ -	\$ 18,124
December	9,500	\$ 2,5185	\$ 23,927	9,500	\$ 1,8550	\$ 17,623	-	\$ -	\$ -	\$ 17,623
<b>Total</b>	<b>114,957</b>	<b>\$ 2.52</b>	<b>\$ 289,518</b>	<b>115,469</b>	<b>\$ 1.86</b>	<b>\$ 214,195</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 214,195</b>
<b>Total</b>										
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	226,998	\$ 3.73	\$ 846,663	238,333	\$ 0.99	\$ 236,717	29,837	\$ 2.23	\$ 66,449	\$ 303,166
February	214,641	\$ 3.74	\$ 802,277	219,302	\$ 0.99	\$ 217,014	30,822	\$ 2.23	\$ 68,839	\$ 285,853
March	203,791	\$ 3.74	\$ 761,317	210,980	\$ 0.99	\$ 208,370	33,790	\$ 2.23	\$ 75,346	\$ 283,716
April	202,364	\$ 3.74	\$ 756,884	207,458	\$ 0.99	\$ 205,458	32,655	\$ 2.25	\$ 73,387	\$ 278,846
May	249,237	\$ 3.77	\$ 938,632	257,269	\$ 0.99	\$ 254,706	30,294	\$ 2.24	\$ 67,741	\$ 322,448
June	240,761	\$ 3.76	\$ 906,312	263,143	\$ 0.99	\$ 260,198	32,073	\$ 2.24	\$ 71,776	\$ 331,974
July	273,245	\$ 3.77	\$ 1,029,917	283,311	\$ 0.99	\$ 280,258	31,950	\$ 2.24	\$ 71,635	\$ 351,893
August	256,644	\$ 3.75	\$ 961,689	263,858	\$ 0.99	\$ 260,757	31,363	\$ 2.24	\$ 70,361	\$ 331,138
September	292,448	\$ 3.75	\$ 1,099,702	286,024	\$ 0.99	\$ 282,310	33,194	\$ 2.24	\$ 74,508	\$ 356,818
October	209,360	\$ 3.75	\$ 784,225	218,200	\$ 0.99	\$ 215,776	28,133	\$ 2.24	\$ 62,991	\$ 278,766
November	209,592	\$ 3.73	\$ 782,779	215,457	\$ 0.99	\$ 214,175	29,224	\$ 2.25	\$ 65,679	\$ 279,854
December	204,162	\$ 3.73	\$ 761,948	217,670	\$ 0.99	\$ 215,930	29,435	\$ 2.24	\$ 65,943	\$ 281,872
<b>Total</b>	<b>2,773,243</b>	<b>\$ 3.75</b>	<b>\$ 10,392,345</b>	<b>2,881,004</b>	<b>\$ 0.99</b>	<b>\$ 2,851,670</b>	<b>372,768</b>	<b>\$ 2.24</b>	<b>\$ 834,673</b>	<b>\$ 3,686,343</b>
<b>Low Voltage Switchgear Credit (if applicable)</b>										
										\$ -
<b>Total including deduction for Low Voltage Switchgear Credit</b>										<b>\$ 3,686,343</b>

# Incentive Rate-setting Mechanism Rate Generator for 2020 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	0.0067	428,664,843	0	2,872,054	30.2%	3,087,900	0.0072
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0062	205,145,450	0	1,271,902	13.4%	1,367,490	0.0067
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - (less than 1,000 kW)	\$/kW	2.5492		641,480	1,635,261	17.2%	1,758,157	2.7408
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	2.7077		757,348	2,050,671	21.5%	2,204,787	2.9112
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	2.7040		421,549	1,139,869	12.0%	1,225,534	2.9072
Large Use Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9978		173,376	519,747	5.5%	558,807	3.2231
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0062	2,724,463	0	16,892	0.2%	18,161	0.0067
Street Lighting Service Classification	Retail Transmission Rate - Network Service Rate	\$/kW	1.9227		9,804	18,850	0.2%	20,267	2.0672

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 Rate	\$/kWh	0.0025	428,664,843	0	1,071,662	29.6%	1,079,556	0.0025
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023	205,145,450	0	471,835	13.0%	475,310	0.0023
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - (less than 1,000 kW)	\$/kW	0.8842		641,480	567,197	15.7%	571,375	0.8907
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.1043		757,348	836,339	23.1%	842,500	1.1124
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	1.1032		421,549	465,053	12.9%	468,479	1.1113
Large Use Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.1082		173,376	192,135	5.3%	193,551	1.1164
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023	2,724,463	0	6,266	0.2%	6,312	0.0023
Street Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.6833		9,804	6,699	0.2%	6,748	0.6883

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 %	Forecast Wholesale Billing	Proposed RTSR- Network
Residential Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0072	428,664,843	0	3,087,900	30.2%	3,133,503	0.0073
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0067	205,145,450	0	1,367,490	13.4%	1,387,685	0.0068
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - (less than 1,000 kW)	\$/kW	2.7408		641,480	1,758,157	17.2%	1,784,121	2.7813
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	2.9112		757,348	2,204,787	21.5%	2,237,347	2.9542
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	2.9072		421,549	1,225,534	12.0%	1,243,633	2.9501
Large Use Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	3.2231		173,376	558,807	5.5%	567,060	3.2707
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0067	2,724,463	0	18,161	0.2%	18,429	0.0068
Street Lighting Service Classification	Retail Transmission Rate - Network Service Rate	\$/kW	2.0672		9,804	20,267	0.2%	20,566	2.0977

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 %	Forecast Wholesale Billing	Proposed RTSR- Connection
Residential Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0025	428,664,843	0	1,079,556	29.6%	1,092,151	0.0025
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023	205,145,450	0	475,310	13.0%	480,856	0.0023
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - (less than 1,000 kW)	\$/kW	0.8907		641,480	571,375	15.7%	578,041	0.9011
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.1124		757,348	842,500	23.1%	852,329	1.1254
General Service 50 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	1.1113		421,549	468,479	12.9%	473,844	1.1243
Large Use Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.1164		173,376	193,551	5.3%	195,809	1.1294
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023	2,724,463	0	6,312	0.2%	6,386	0.0023
Street Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.6883		9,804	6,748	0.2%	6,827	0.6964

# Incentive Rate-setting Mechanism Rate Generator for 2020 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 2018 values and will be updated by OEB staff at a later date.

Price Escalator	1.20%	Productivity Factor	0.00%
Choose Stretch Factor Group	III	Price Cap Index	0.90%
Associated Stretch Factor Value	0.30%		

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	31.51				0.90%	31.79	0.0000
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	33.15		0.0165		0.90%	33.45	0.0166
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	123.85		5.2545		0.90%	124.96	5.3018
LARGE USE SERVICE CLASSIFICATION	7236.93		4.1701		0.90%	7,302.06	4.2076
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	11.01		0.0137		0.90%	11.11	0.0138
STREET LIGHTING SERVICE CLASSIFICATION	0.34		9.7264		0.90%	0.34	9.8139
EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	0		0.0207		0.90%	0.00	0.0209
MICROFIT SERVICE CLASSIFICATION	5.4					5.4	

If applicable, Wheeling Service Rate will be adjusted for PCI on Sheet 19.



# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

Update the following rates if an OEB Decision has been issued at the time of completing this application

## Regulatory Charges

Effective Date of Regulatory Charges		January 1, 2019	January 1, 2020
Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$/kWh	0.25	0.25

## Time-of-Use RPP Prices

As of	May 1, 2019	
Off-Peak	\$/kWh	0.0650
Mid-Peak	\$/kWh	0.0940
On-Peak	\$/kWh	0.1340

## Smart Meter Entity Charge (SME)

Smart Meter Entity Charge (SME)	\$	0.57
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Distribution Rate Protection (DRP) Amount (Applicable to LDCs under the Distribution Rate Protection program):	\$	36.86
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## Miscellaneous Service Charges

Wireline Pole Attachment Charge	Unit	Current charge	Inflation factor *	Proposed charge ** / ***
Specific charge for access to the power poles - per pole/year	\$	43.63	1.20%	44.15

Retail Service Charges		Current charge	Inflation factor*	Proposed charge ***
One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	100.00	1.20%	101.20
Monthly fixed charge, per retailer	\$	40.00	1.20%	40.48
Monthly variable charge, per customer, per retailer	\$/cust.	1.00	1.20%	1.01
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.60	1.20%	0.61
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.60)	1.20%	(0.61)
Service Transaction Requests (STR)				
Request fee, per request, applied to the requesting party	\$	0.50	1.20%	0.51
Processing fee, per request, applied to the requesting party	\$	1.00	1.20%	1.01
Electronic Business Transaction (EBT) system, applied to the requesting party				
up to twice a year		no charge		no charge
more than twice a year, per request (plus incremental delivery costs)	\$	4.00	1.20%	4.05
Notice of switch letter charge, per letter	\$	2.00	1.20%	2.02

\* inflation factor subject to change pending OEB approved inflation rate effective in 2020

\*\* applicable only to LDCs in which the province-wide pole attachment charge applies

\*\*\* subject to change pending OEB order on miscellaneous service charges

# Incentive Rate-setting Mechanism Rate Generator for 2020 Filers

In the Green Cells below, enter all proposed rate riders/rates. Please note that the following rates/charges are to be entered in the Final Tariff Schedule tab: Monthly Service Charge, Distribution Volumetric Rate and Retail Transmission Rates.  
 In column A, select the rate rider descriptions from the drop-down list in the blue cells. If the rate description cannot be found, enter the rate rider descriptions in the green cells. The rate rider description 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, 2020) 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, a sub-total (A or B). Sub-Total A refers to rates/rate riders that Not considered as pass through costs (eg: LRAMVA and ICM/ACM rate riders). Sub-Total B refers to rates/rate riders that are considered pass through costs.

RESIDENTIAL SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: April 30, 2020)	SUB-TOTAL
			- 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	UNIT	RATE		DATE (EG: April 30, 2020)	SUB-TOTAL
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: April 30, 2020)	SUB-TOTAL
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

LARGE USE SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: April 30, 2020)	SUB-TOTAL
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: April 30, 2020)	SUB-TOTAL
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

STREET LIGHTING SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: April 30, 2020)	SUB-TOTAL
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: April 30, 2020)	SUB-TOTAL
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

MICROFIT SERVICE CLASSIFICATION	UNIT	RATE		DATE (EG: April 30, 2020)	SUB-TOTAL
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		
			- effective until		

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EB-2019-0071

**RESIDENTIAL SERVICE CLASSIFICATION**

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate 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. All customers are single-phase. Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	31.79
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	0.0006
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0073
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0025

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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### GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	33.45
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0166
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	0.0007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023

#### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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### GENERAL SERVICE 50 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 greater than, 50 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service. 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; General Service 50 to 999 kW interval metered; and General Service 1,000 to 4,999 kW interval metered.

#### 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.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

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	\$	124.96
Distribution Volumetric Rate	\$/kW	5.3018
Low Voltage Service Rate	\$/kW	0.0738
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020 Applicable only for Non-Wholesale Market Participants	\$/kW	0.1629
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.1251
Retail Transmission Rate - Network Service Rate - (less than 1,000 kW)	\$/kW	2.7813
Retail Transmission Rate - Network Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	2.9542
Retail Transmission Rate - Network Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	2.9501
Retail Transmission Rate - Line and Transformation Connection Service Rate - (less than 1,000 kW)	\$/kW	0.9011



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Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.1254
Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	1.1243

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

**LARGE USE SERVICE CLASSIFICATION**

This classification applies to an account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	7,302.06
Distribution Volumetric Rate	\$/kW	4.2076
Low Voltage Service Rate	\$/kW	0.0925
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.4253
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	3.2707
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.1294

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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### 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 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Class B consumers are defined in accordance with O. Reg. 429/04. 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 (per connection)	\$	11.11
Distribution Volumetric Rate	\$/kWh	0.0138
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kWh	0.0007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0068
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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**STREET LIGHTING SERVICE CLASSIFICATION**

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. 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 (per connection)	\$	0.34
Distribution Volumetric Rate	\$/kW	9.8139
Low Voltage Service Rate	\$/kW	0.0570
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.2362
Retail Transmission Rate - Network Service Rate	\$/kW	2.0977
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.6964

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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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.

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
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### EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION

This classification applies to an electricity distributor licensed by the Ontario Energy Board that is provided electricity by means of this distributor's facilities. Class B consumers are defined in accordance with O. Reg. 429/04. 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

Distribution Volumetric Rate	\$/kW	0.0209
Rate Rider for Disposition of Global Adjustment Account (2020) - effective until December 31, 2020 Applicable only for Non-RPP Customers	\$/kWh	(0.0007)
Rate Rider for Disposition of Deferral/Variance Accounts (2020) - effective until December 31, 2020	\$/kW	0.3168

### MONTHLY RATES AND CHARGES - Regulatory Component

Wholesale Market Service Rate (WMS) - not including CBR	\$/kWh	0.0030
Capacity Based Recovery (CBR) - Applicable for Class B Customers	\$/kWh	0.0004
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0005
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

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**ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.60)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

**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.

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**Customer Administration**

Easement letter	\$	15.00
Notification charge	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque (plus bank charges)	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Income tax letter	\$	15.00
Account set up charge / change of occupancy charge (plus credit agency costs if applicable)	\$	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
Disconnect/reconnect at meter - during regular hours	\$	65.00
Disconnect/reconnect at meter - after regular hours	\$	185.00

**Other**

Specific charge for access to the power poles - \$/pole/year (with the exception of wireless attachments)	\$	44.15
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## 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.

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	\$	101.20
Monthly Fixed Charge, per retailer	\$	40.48
Monthly Variable Charge, per customer, per retailer	\$/cust.	1.01
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.61
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	<b>(0.61)</b>
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.51
Processing fee, per request, applied to the requesting party	\$	1.01
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)	\$	4.05

### 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	1.0362
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0147
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0259
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0047







Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	
Consumption:	700	kWh
Demand:	-	kW
Current Loss Factor:	1.0362	
Proposed/Approved Loss Factor:	1.0362	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 31.51	1	\$ 31.51	\$ 31.79	1	\$ 31.79	\$ 0.28	0.89%
Distribution Volumetric Rate	\$ -	700	\$ -	\$ -	700	\$ -	\$ -	
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	700	\$ -	\$ -	700	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 31.51</b>			<b>\$ 31.79</b>	<b>\$ 0.28</b>	<b>0.89%</b>
Line Losses on Cost of Power	\$ 0.0824	25	\$ 2.09	\$ 0.0824	25	\$ 2.09	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ 0.0020	700	\$ (1.40)	\$ 0.0006	700	\$ 0.42	\$ 1.82	-130.00%
CBR Class B Rate Riders	\$ -	700	\$ -	\$ -	700	\$ -	\$ -	
GA Rate Riders	\$ -	700	\$ -	\$ -	700	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0002	700	\$ 0.14	\$ 0.0002	700	\$ 0.14	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.57	1	\$ 0.57	\$ 0.57	1	\$ 0.57	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	700	\$ -	\$ -	700	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 32.91</b>			<b>\$ 35.01</b>	<b>\$ 2.10</b>	<b>6.38%</b>
RTSR - Network	\$ 0.0067	725	\$ 4.86	\$ 0.0073	725	\$ 5.29	\$ 0.44	8.96%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0025	725	\$ 1.81	\$ 0.0026	725	\$ 1.89	\$ 0.07	4.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 39.58</b>			<b>\$ 42.19</b>	<b>\$ 2.61</b>	<b>6.59%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0034	725	\$ 2.47	\$ 0.0034	725	\$ 2.47	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	725	\$ 0.36	\$ 0.0005	725	\$ 0.36	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
TOU - Off Peak	\$ 0.0650	455	\$ 29.58	\$ 0.0650	455	\$ 29.58	\$ -	0.00%
TOU - Mid Peak	\$ 0.0940	119	\$ 11.19	\$ 0.0940	119	\$ 11.19	\$ -	0.00%
TOU - On Peak	\$ 0.1340	126	\$ 16.88	\$ 0.1340	126	\$ 16.88	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 100.30</b>			<b>\$ 102.91</b>	<b>\$ 2.61</b>	<b>2.60%</b>
HST	13%		\$ 13.04	13%		\$ 13.38	\$ 0.34	2.60%
8% Rebate	8%		\$ (8.02)	8%		\$ (8.23)	\$ (0.21)	
<b>Total Bill on TOU</b>			<b>\$ 105.32</b>			<b>\$ 108.06</b>	<b>\$ 2.74</b>	<b>2.60%</b>

In the manager's summary, discuss the reasoning for the change in RTSR rates

Customer Class:	GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	
Consumption	2,000	kWh
Demand	-	kW
Current Loss Factor	1.0362	
Proposed/Approved Loss Factor	1.0362	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 33.15	1	\$ 33.15	\$ 33.45	1	\$ 33.45	\$ 0.30	0.90%
Distribution Volumetric Rate	\$ 0.0165	2000	\$ 33.00	\$ 0.0166	2000	\$ 33.20	\$ 0.20	0.61%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Volumetric Rate Riders	\$ -	2000	\$ -	\$ -	2000	\$ -	\$ -	-
<b>Sub-Total A (excluding pass through)</b>			\$ 66.15			\$ 66.65	\$ 0.50	0.76%
Line Losses on Cost of Power	\$ 0.0824	72	\$ 5.96	\$ 0.0824	72	\$ 5.96	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ 0.0020	2,000	\$ (4.00)	\$ 0.0007	2,000	\$ 1.40	\$ 5.40	-135.00%
CBR Class B Rate Riders	\$ -	2,000	\$ -	\$ -	2,000	\$ -	\$ -	-
GA Rate Riders	\$ -	2,000	\$ -	\$ -	2,000	\$ -	\$ -	-
Low Voltage Service Charge	\$ 0.0002	2,000	\$ 0.40	\$ 0.0002	2,000	\$ 0.40	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.57	1	\$ 0.57	\$ 0.57	1	\$ 0.57	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Volumetric Rate Riders		2,000	\$ -	\$ -	2,000	\$ -	\$ -	-
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 69.08			\$ 74.98	\$ 5.90	8.54%
RTSR - Network	\$ 0.0062	2,072	\$ 12.85	\$ 0.0068	2,072	\$ 14.09	\$ 1.24	9.68%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0023	2,072	\$ 4.77	\$ 0.0024	2,072	\$ 4.97	\$ 0.21	4.35%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 86.70			\$ 94.05	\$ 7.35	8.48%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	2,072	\$ 7.05	\$ 0.0034	2,072	\$ 7.05	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	2,072	\$ 1.04	\$ 0.0005	2,072	\$ 1.04	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
TOU - Off Peak	\$ 0.0650	1,300	\$ 84.50	\$ 0.0650	1,300	\$ 84.50	\$ -	0.00%
TOU - Mid Peak	\$ 0.0940	340	\$ 31.96	\$ 0.0940	340	\$ 31.96	\$ -	0.00%
TOU - On Peak	\$ 0.1340	360	\$ 48.24	\$ 0.1340	360	\$ 48.24	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 259.73			\$ 267.08	\$ 7.35	2.83%
HST	13%		\$ 33.76	13%		\$ 34.72	\$ 0.96	2.83%
8% Rebate	8%		\$ (20.78)	8%		\$ (21.37)	\$ (0.59)	-
<b>Total Bill on TOU</b>			\$ 272.72			\$ 280.43	\$ 7.72	2.83%

In the manager's summary, discuss the reasoning for the change in RTSR rates

In the manager's summary, discuss the reasoning for the change in RTSR rates

Customer Class:	GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION
RPP / Non-RPP:	Non-RPP (Other)
Consumption	100,000 kWh
Demand	250 kW
Current Loss Factor	1.0362
Proposed/Approved Loss Factor	1.0362

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 123.85	1	\$ 123.85	\$ 124.96	1	\$ 124.96	\$ 1.11	0.90%
Distribution Volumetric Rate	\$ 5.2545	250	\$ 1,313.63	\$ 5.3018	250	\$ 1,325.45	\$ 11.83	0.90%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	250	\$ -	\$ -	250	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 1,437.48</b>			<b>\$ 1,450.41</b>	<b>\$ 12.94</b>	<b>0.90%</b>
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	-\$ 0.7633	250	\$ (190.83)	\$ 0.2883	250	\$ 72.08	\$ 262.90	-137.77%
CBR Class B Rate Riders	\$ -	250	\$ -	\$ -	250	\$ -	\$ -	
GA Rate Riders	\$ 0.0018	100,000	\$ 180.00	\$ 0.0007	100,000	\$ (70.00)	\$ (250.00)	-138.89%
Low Voltage Service Charge	\$ 0.0738	250	\$ 18.45	\$ 0.0738	250	\$ 18.45	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	250	\$ -	\$ -	250	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 1,445.10</b>			<b>\$ 1,470.94</b>	<b>\$ 25.84</b>	<b>1.79%</b>
RTSR - Network	\$ 2.5492	250	\$ 637.30	\$ 2.7781	250	\$ 694.53	\$ 57.23	8.98%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.8842	250	\$ 221.05	\$ 0.9048	250	\$ 226.20	\$ 5.15	2.33%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 2,303.45</b>			<b>\$ 2,391.66</b>	<b>\$ 88.21</b>	<b>3.83%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0034	103,620	\$ 352.31	\$ 0.0034	103,620	\$ 352.31	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	103,620	\$ 51.81	\$ 0.0005	103,620	\$ 51.81	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.1101	103,620	\$ 11,408.56	\$ 0.1101	103,620	\$ 11,408.56	\$ -	0.00%
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 14,116.38</b>			<b>\$ 14,204.59</b>	<b>\$ 88.21</b>	<b>0.62%</b>
HST		13%	\$ 1,835.13		13%	\$ 1,846.60	\$ 11.47	0.62%
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 15,951.51</b>			<b>\$ 16,051.19</b>	<b>\$ 99.68</b>	<b>0.62%</b>

In the manager's summary, discuss the reasoning for the change in RTSR rates

Customer Class:	LARGE USE SERVICE CLASSIFICATION
RPP / Non-RPP:	Non-RPP (Other)
Consumption	8,000,000 kWh
Demand	14,500 kW
Current Loss Factor	1.0362
Proposed/Approved Loss Factor	1.0362

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 7,236.93	1	\$ 7,236.93	\$ 7,302.06	1	\$ 7,302.06	\$ 65.13	0.90%
Distribution Volumetric Rate	\$ 4.1701	14500	\$ 60,466.45	\$ 4.2076	14500	\$ 61,010.20	\$ 543.75	0.90%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	14500	\$ -	\$ -	14500	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 67,703.38</b>			<b>\$ 68,312.26</b>	<b>\$ 608.88</b>	<b>0.90%</b>
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	\$ 1.0712	14,500	\$ (15,532.40)	\$ 0.4257	14,500	\$ 6,172.65	\$ 21,705.05	-139.74%
CBR Class B Rate Riders	\$ -	14,500	\$ -	\$ -	14,500	\$ -	\$ -	
GA Rate Riders	\$ -	8,000,000	\$ -	\$ 0.0007	8,000,000	\$ (5,600.00)	\$ (5,600.00)	
Low Voltage Service Charge	\$ 0.0925	14,500	\$ 1,341.25	\$ 0.0925	14,500	\$ 1,341.25	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	14,500	\$ -	\$ -	14,500	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 53,512.23</b>			<b>\$ 70,226.16</b>	<b>\$ 16,713.93</b>	<b>31.23%</b>
RTSR - Network	\$ -	14,500	\$ -	\$ -	14,500	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	14,500	\$ -	\$ -	14,500	\$ -	\$ -	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 53,512.23</b>			<b>\$ 70,226.16</b>	<b>\$ 16,713.93</b>	<b>31.23%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0034	8,289,600	\$ 28,184.64	\$ 0.0034	8,289,600	\$ 28,184.64	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	8,289,600	\$ 4,144.80	\$ 0.0005	8,289,600	\$ 4,144.80	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.1101	8,289,600	\$ 912,684.96	\$ 0.1101	8,289,600	\$ 912,684.96	\$ -	0.00%
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 998,526.88</b>			<b>\$ 1,015,240.81</b>	<b>\$ 16,713.93</b>	<b>1.67%</b>
HST		13%	\$ 129,808.49		13%	\$ 131,981.31	\$ 2,172.81	1.67%
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 1,128,335.37</b>			<b>\$ 1,147,222.12</b>	<b>\$ 18,886.74</b>	<b>1.67%</b>

Customer Class:	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	
RPP / Non-RPP:	RPP	
Consumption	150	kWh
Demand	-	kW
Current Loss Factor	1.0362	
Proposed/Approved Loss Factor	1.0362	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 11.01	1	\$ 11.01	\$ 11.11	1	\$ 11.11	\$ 0.10	0.91%
Distribution Volumetric Rate	\$ 0.0137	150	\$ 2.06	\$ 0.0138	150	\$ 2.07	\$ 0.01	0.73%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Volumetric Rate Riders	\$ -	150	\$ -	\$ -	150	\$ -	\$ -	-
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 13.07</b>			<b>\$ 13.18</b>	<b>\$ 0.12</b>	<b>0.88%</b>
Line Losses on Cost of Power	\$ 0.0824	5	\$ 0.45	\$ 0.0824	5	\$ 0.45	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	\$ 0.0021	150	\$ (0.32)	\$ 0.0007	150	\$ 0.11	\$ 0.42	-133.33%
CBR Class B Rate Riders	\$ -	150	\$ -	\$ -	150	\$ -	\$ -	-
GA Rate Riders	\$ -	150	\$ -	\$ -	150	\$ -	\$ -	-
Low Voltage Service Charge	\$ 0.0002	150	\$ 0.03	\$ 0.0002	150	\$ 0.03	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Volumetric Rate Riders	\$ -	150	\$ -	\$ -	150	\$ -	\$ -	-
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 13.23</b>			<b>\$ 13.76</b>	<b>\$ 0.54</b>	<b>4.04%</b>
RTSR - Network	\$ 0.0062	155	\$ 0.96	\$ 0.0068	155	\$ 1.06	\$ 0.09	9.68%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0023	155	\$ 0.36	\$ 0.0024	155	\$ 0.37	\$ 0.02	4.35%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 14.55</b>			<b>\$ 15.19</b>	<b>\$ 0.64</b>	<b>4.43%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0034	155	\$ 0.53	\$ 0.0034	155	\$ 0.53	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	155	\$ 0.08	\$ 0.0005	155	\$ 0.08	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
TOU - Off Peak	\$ 0.0650	98	\$ 6.34	\$ 0.0650	98	\$ 6.34	\$ -	0.00%
TOU - Mid Peak	\$ 0.0940	26	\$ 2.40	\$ 0.0940	26	\$ 2.40	\$ -	0.00%
TOU - On Peak	\$ 0.1340	27	\$ 3.62	\$ 0.1340	27	\$ 3.62	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 27.76</b>			<b>\$ 28.40</b>	<b>\$ 0.64</b>	<b>2.32%</b>
HST	13%		\$ 3.61	13%		\$ 3.69	\$ 0.08	2.32%
<b>Total Bill on TOU</b>			<b>\$ 31.37</b>			<b>\$ 32.09</b>	<b>\$ 0.73</b>	<b>2.32%</b>

In the manager's summary, discuss the reasoning for the change in RTSR rates

In the manager's summary, discuss the reasoning for the change in RTSR rates

Customer Class:	<b>STREET LIGHTING SERVICE CLASSIFICATION</b>
RPP / Non-RPP:	Non-RPP (Other)
Consumption	50 kWh
Demand	- kW
Current Loss Factor	1.0362
Proposed/Approved Loss Factor	1.0362

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 0.34	1	\$ 0.34	\$ 0.34	1	\$ 0.34	\$ -	0.00%
Distribution Volumetric Rate	\$ 9.7264	50	\$ 486.32	\$ 9.8139	50	\$ 490.70	\$ 4.38	0.90%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Volumetric Rate Riders	\$ -	50	\$ -	\$ -	50	\$ -	\$ -	-
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 486.66</b>			<b>\$ 491.04</b>	<b>\$ 4.38</b>	<b>0.90%</b>
Line Losses on Cost of Power	\$ 0.1101	2	\$ 0.20	\$ 0.1101	2	\$ 0.20	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	-\$ 0.6663	50	\$ (33.32)	\$ 0.2373	50	\$ 11.87	\$ 45.18	-135.61%
CBR Class B Rate Riders	\$ -	50	\$ -	\$ -	50	\$ -	\$ -	-
GA Rate Riders	\$ 0.0018	50	\$ 0.09	-\$ 0.0007	50	\$ (0.04)	\$ (0.13)	-138.89%
Low Voltage Service Charge	\$ 0.0570	50	\$ 2.85	\$ 0.0570	50	\$ 2.85	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Volumetric Rate Riders	\$ -	50	\$ -	\$ -	50	\$ -	\$ -	-
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 456.48</b>			<b>\$ 505.91</b>	<b>\$ 49.43</b>	<b>10.83%</b>
RTSR - Network	\$ 1.9227	52	\$ 99.62	\$ 2.0953	52	\$ 108.56	\$ 8.94	8.98%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.6833	52	\$ 35.40	\$ 0.6992	52	\$ 36.23	\$ 0.82	2.33%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 591.50</b>			<b>\$ 650.70</b>	<b>\$ 59.20</b>	<b>10.01%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0034	52	\$ 0.18	\$ 0.0034	52	\$ 0.18	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	52	\$ 0.03	\$ 0.0005	52	\$ 0.03	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.1101	50	\$ 5.51	\$ 0.1101	50	\$ 5.51	\$ -	0.00%
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 597.46</b>			<b>\$ 656.65</b>	<b>\$ 59.20</b>	<b>9.91%</b>
HST		13%	\$ 77.67		13%	\$ 85.37	\$ 7.70	9.91%
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 675.13</b>			<b>\$ 742.02</b>	<b>\$ 66.89</b>	<b>9.91%</b>

In the manager's summary, discuss the reasoning for the change in RTSR rates

Customer Class:	EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION
RPP / Non-RPP:	Non-RPP (Other)
Consumption	2,615,000 kWh
Demand	6,000 kW
Current Loss Factor	1.0362
Proposed/Approved Loss Factor	1.0362

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0207	6000	\$ 124.20	\$ 0.0209	6000	\$ 125.40	\$ 1.20	0.97%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	6000	\$ -	\$ -	6000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 124.20</b>			<b>\$ 125.40</b>	<b>\$ 1.20</b>	<b>0.97%</b>
Line Losses on Cost of Power	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders	\$ 0.8677	6,000	\$ (5,206.20)	\$ 0.3170	6,000	\$ 1,902.00	\$ 7,108.20	-136.53%
CBR Class B Rate Riders	\$ -	6,000	\$ -	\$ -	6,000	\$ -	\$ -	
GA Rate Riders	\$ 0.0018	2,615,000	\$ 4,707.00	\$ 0.0007	2,615,000	\$ (1,830.50)	\$ (6,537.50)	-138.89%
Low Voltage Service Charge	\$ -	6,000	\$ -	\$ -	6,000	\$ -	\$ -	
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	6,000	\$ -	\$ -	6,000	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ (375.00)</b>			<b>\$ 196.90</b>	<b>\$ 571.90</b>	<b>-152.51%</b>
RTSR - Network	\$ -	6,000	\$ -	\$ -	6,000	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection	\$ -	6,000	\$ -	\$ -	6,000	\$ -	\$ -	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ (375.00)</b>			<b>\$ 196.90</b>	<b>\$ 571.90</b>	<b>-152.51%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0034	2,709,663	\$ 9,212.85	\$ 0.0034	2,709,663	\$ 9,212.85	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	2,709,663	\$ 1,354.83	\$ 0.0005	2,709,663	\$ 1,354.83	\$ -	0.00%
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
Average IESO Wholesale Market Price	\$ 0.1101	2,709,663	\$ 298,333.90	\$ 0.1101	2,709,663	\$ 298,333.90	\$ -	0.00%
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 308,526.83</b>			<b>\$ 309,098.73</b>	<b>\$ 571.90</b>	<b>0.19%</b>
HST		13%	\$ 40,108.49			\$ 40,182.84	\$ 74.35	0.19%
<b>Total Bill on Average IESO Wholesale Market Price</b>			<b>\$ 348,635.32</b>			<b>\$ 349,281.57</b>	<b>\$ 646.25</b>	<b>0.19%</b>



Customer Class:	RESIDENTIAL SERVICE CLASSIFICATION	
RPP / Non-RPP:	Non-RPP (Retailer)	
Consumption	700	kWh
Demand	-	kW
Current Loss Factor	1.0362	
Proposed/Approved Loss Factor	1.0362	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 31.51	1	\$ 31.51	\$ 31.79	1	\$ 31.79	\$ 0.28	0.89%
Distribution Volumetric Rate	\$ -	700	\$ -	\$ -	700	\$ -	\$ -	
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Volumetric Rate Riders	\$ -	700	\$ -	\$ -	700	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 31.51</b>			<b>\$ 31.79</b>	<b>\$ 0.28</b>	<b>0.89%</b>
Line Losses on Cost of Power	\$ 0.1101	25	\$ 2.79	\$ 0.1101	25	\$ 2.79	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	-\$ 0.0020	700	\$ (1.40)	\$ 0.0006	700	\$ 0.42	\$ 1.82	-130.00%
CBR Class B Rate Riders	\$ -	700	\$ -	\$ -	700	\$ -	\$ -	
GA Rate Riders	\$ 0.0018	700	\$ 1.26	-\$ 0.0007	700	\$ (0.49)	\$ (1.75)	-138.89%
Low Voltage Service Charge	\$ 0.0002	700	\$ 0.14	\$ 0.0002	700	\$ 0.14	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.57	1	\$ 0.57	\$ 0.57	1	\$ 0.57	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Volumetric Rate Riders	\$ -	700	\$ -	\$ -	700	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 34.87</b>			<b>\$ 35.22</b>	<b>\$ 0.35</b>	<b>1.00%</b>
RTSR - Network	\$ 0.0067	725	\$ 4.86	\$ 0.0073	725	\$ 5.29	\$ 0.44	8.96%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0025	725	\$ 1.81	\$ 0.0026	725	\$ 1.89	\$ 0.07	4.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 41.54</b>			<b>\$ 42.40</b>	<b>\$ 0.86</b>	<b>2.06%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0034	725	\$ 2.47	\$ 0.0034	725	\$ 2.47	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	725	\$ 0.36	\$ 0.0005	725	\$ 0.36	\$ -	0.00%
Standard Supply Service Charge								
Non-RPP Retailer Avg. Price	\$ 0.1101	700	\$ 77.07	\$ 0.1101	700	\$ 77.07	\$ -	0.00%
<b>Total Bill on Non-RPP Avg. Price</b>			<b>\$ 121.44</b>			<b>\$ 122.30</b>	<b>\$ 0.86</b>	<b>0.71%</b>
HST	13%		\$ 15.79	13%		\$ 15.90	\$ 0.11	0.71%
8% Rebate	8%			8%				
<b>Total Bill on Non-RPP Avg. Price</b>			<b>\$ 137.23</b>			<b>\$ 138.20</b>	<b>\$ 0.97</b>	<b>0.71%</b>

In the manager's summary, discuss the reasoning for the change in RTSR rates

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:	1.0362	
Proposed/Approved Loss Factor:	1.0362	

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 33.15	1	\$ 33.15	\$ 33.45	1	\$ 33.45	\$ 0.30	0.90%
Distribution Volumetric Rate	\$ 0.0165	2000	\$ 33.00	\$ 0.0166	2000	\$ 33.20	\$ 0.20	0.61%
Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Volumetric Rate Riders	\$ -	2000	\$ -	\$ -	2000	\$ -	\$ -	-
<b>Sub-Total A (excluding pass through)</b>			\$ 66.15			\$ 66.65	\$ 0.50	0.76%
Line Losses on Cost of Power	\$ 0.1101	72	\$ 7.97	\$ 0.1101	72	\$ 7.97	\$ -	0.00%
Total Deferral/Variance Account Rate Riders	-\$ 0.0020	2,000	\$ (4.00)	\$ 0.0007	2,000	\$ 1.40	\$ 5.40	-135.00%
CBR Class B Rate Riders	\$ -	2,000	\$ -	\$ -	2,000	\$ -	\$ -	-
GA Rate Riders	\$ 0.0018	2,000	\$ 3.60	-\$ 0.0007	2,000	\$ (1.40)	\$ (5.00)	-138.89%
Low Voltage Service Charge	\$ 0.0002	2,000	\$ 0.40	\$ 0.0002	2,000	\$ 0.40	\$ -	0.00%
Smart Meter Entity Charge (if applicable)	\$ 0.57	1	\$ 0.57	\$ 0.57	1	\$ 0.57	\$ -	0.00%
Additional Fixed Rate Riders	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	-
Additional Volumetric Rate Riders	\$ -	2,000	\$ -	\$ -	2,000	\$ -	\$ -	-
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 74.69			\$ 75.59	\$ 0.90	1.20%
RTSR - Network	\$ 0.0062	2,072	\$ 12.85	\$ 0.0068	2,072	\$ 14.09	\$ 1.24	9.68%
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0023	2,072	\$ 4.77	\$ 0.0024	2,072	\$ 4.97	\$ 0.21	4.35%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 92.31			\$ 94.66	\$ 2.35	2.55%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	2,072	\$ 7.05	\$ 0.0034	2,072	\$ 7.05	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	2,072	\$ 1.04	\$ 0.0005	2,072	\$ 1.04	\$ -	0.00%
Standard Supply Service Charge								
Non-RPP Retailer Avg. Price	\$ 0.1101	2,000	\$ 220.20	\$ 0.1101	2,000	\$ 220.20	\$ -	0.00%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 320.59			\$ 322.94	\$ 2.35	0.73%
HST	13%		\$ 41.68	13%		\$ 41.98	\$ 0.31	0.73%
8% Rebate	8%			8%				
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 362.27			\$ 364.92	\$ 2.66	0.73%

In the manager's summary, discuss the reasoning for the change in RTSR rates

In the manager's summary, discuss the reasoning for the change in RTSR rates

Customer Class: Add additional scenarios if required

RPP / Non-RPP: \_\_\_\_\_

Consumption: \_\_\_\_\_ kWh

Demand: \_\_\_\_\_ kW

Current Loss Factor: \_\_\_\_\_

Proposed/Approved Loss Factor: \_\_\_\_\_

	Current OEB-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge		1	\$ -		1	\$ -	\$ -	
Distribution Volumetric Rate		0	\$ -		0	\$ -	\$ -	
Fixed Rate Riders		1	\$ -		1	\$ -	\$ -	
Volumetric Rate Riders		0	\$ -		0	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ -			\$ -	\$ -	
Line Losses on Cost of Power	\$ 0.1101	-	\$ -	\$ 0.1101	-	\$ -	\$ -	
Total Deferral/Variance Account Rate Riders		-	\$ -		-	\$ -	\$ -	
CBR Class B Rate Riders		-	\$ -		-	\$ -	\$ -	
GA Rate Riders		-	\$ -		-	\$ -	\$ -	
Low Voltage Service Charge		-	\$ -		-	\$ -	\$ -	
Smart Meter Entity Charge (if applicable)	\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Additional Fixed Rate Riders		1	\$ -		1	\$ -	\$ -	
Additional Volumetric Rate Riders		-	\$ -		-	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ -			\$ -	\$ -	
RTSR - Network		-	\$ -		-	\$ -	\$ -	
RTSR - Connection and/or Line and Transformation Connection		-	\$ -		-	\$ -	\$ -	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ -			\$ -	\$ -	
Wholesale Market Service Charge (WMSC)	\$ 0.0034	-	\$ -	\$ 0.0034	-	\$ -	\$ -	
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	-	\$ -	\$ 0.0005	-	\$ -	\$ -	
Standard Supply Service Charge	\$ 0.25	1	\$ 0.25	\$ 0.25	1	\$ 0.25	\$ -	0.00%
TOU - Off Peak	\$ 0.0650	-	\$ -	\$ 0.0650	-	\$ -	\$ -	
TOU - Mid Peak	\$ 0.0940	-	\$ -	\$ 0.0940	-	\$ -	\$ -	
TOU - On Peak	\$ 0.1340	-	\$ -	\$ 0.1340	-	\$ -	\$ -	
Non-RPP Retailer Avg. Price	\$ 0.1101	-	\$ -	\$ 0.1101	-	\$ -	\$ -	
Average IESO Wholesale Market Price	\$ 0.1101	-	\$ -	\$ 0.1101	-	\$ -	\$ -	
<b>Total Bill on TOU (before Taxes)</b>			\$ 0.25			\$ 0.25	\$ -	0.00%
HST	13%		\$ 0.03	13%		\$ 0.03	\$ -	0.00%
8% Rebate	8%		\$ (0.02)	8%		\$ (0.02)	\$ -	
<b>Total Bill on TOU</b>			\$ 0.26			\$ 0.26	\$ -	0.00%
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 0.25			\$ 0.25	\$ -	0.00%
HST	13%		\$ 0.03	13%		\$ 0.03	\$ -	0.00%
8% Rebate	8%		\$ -	8%		\$ -	\$ -	
<b>Total Bill on Non-RPP Avg. Price</b>			\$ 0.28			\$ 0.28	\$ -	0.00%
<b>Total Bill on Average IESO Wholesale Market Price</b>			\$ 0.25			\$ 0.25	\$ -	0.00%
HST	13%		\$ 0.03	13%		\$ 0.03	\$ -	0.00%
8% Rebate	8%		\$ -	8%		\$ -	\$ -	
<b>Total Bill on Average IESO Wholesale Market Price</b>			\$ 0.28			\$ 0.28	\$ -	0.00%

## **Attachment B**

# **GA Analysis Workform & Appendix A Responses**

# GA Analysis Workform

Version 1.9

**Account 1589 Global Adjustment (GA) Analysis Workform**

Input cells  
Drop down cells


Utility Name WATERLOO NORTH HYDRO INC.

Note 1 Please select "Yes" in column D for any year being requested for disposition

	2014	No
	2015	No
	2016	No
	2017	No
	2018	Yes

Note 7 Summary of GA (if multiple years requested for disposition)

Year	Annual Net Change in Expected GA Balance from GA Analysis	Net Change in Principal Balance in the GL	Reconciling Items	Adjusted Net Change in Principal Balance in the GL	Unresolved Difference	\$ Consumption at Actual Rate Paid	Unresolved Difference as % of Expected GA Payments to IESO
2018	\$ (605,538)	\$ (348,978)	\$ (7,500)	\$ (356,478)	\$ 249,060	\$ 46,273,445	0.5%
<b>Cumulative Balance</b>	<b>\$ (605,538)</b>	<b>\$ (348,978)</b>	<b>\$ (7,500)</b>	<b>\$ (356,478)</b>	<b>\$ 249,060</b>	<b>\$ 46,273,445</b>	<b>N/A</b>

# INSTRUCTIONS FOR COMPLETING GA ANALYSIS WORKFORM



## Appendix A GA Methodology Description Questions on Accounts 1588 & 1589<sup>1</sup>

- Please complete the Table below for principal adjustments on the DVA Continuity Schedule for Account 1588:

### Reconciliation of Account 1588 - 2018

	Principal Adjustments	Was the amount a "Principal Adjustment" in the previous year? (Y/N)
<b>Balance December 31, 2018</b>		
<b>Reversals of Principal Adjustments - previous year</b>		
1. Reversal of Cost of Power accrual from previous year		
2. Reversal of CT 1142 true-up from the previous year		
3. Unbilled to billed adjustment for previous year		
4. Reversal of RPP vs. Non-RPP allocation		
<b>Sub-Total Reversals from previous year (A):</b>	0	
<b>Principal Adjustments - current year</b>		
5. Cost of power accrual for 2018 vs Actual per IESO bill	-	
6. True-up of CT 1142 for 2018 consumption recorded in 2019 GL		
7. Unbilled accrued vs. billed for 2018 consumption	369,541	N
8. True-up of RPP vs. Non-RPP allocation of CT 148 based on actual 2018 consumption		
9. Other - RPP True-up – Price variance – Explained in Management Summary (2017 + 2018)	495,997	Y
<b>Sub-Total Principal Adjustments for 2018 consumption (B)</b>	865,538	
<b>Total Principal Adjustments shown for 2018 (A + B)</b>	865,538*	
<b>Bal. For Disposition - 1588 (should match Total Claim column on DVA Continuity Schedule)</b>	852,430*	

<sup>1</sup>In all references in the questions relating to amounts booked to accounts 1588 and 1589, amounts are not booked directly to accounts USoA 1588 and 1589 relating to power purchase transactions, but are rather booked to the cost of power USoA 4705 Power Purchased, and 4707, Charges – Global Adjustment, respectively. However, accounts 1588 and 1589 are impacted the same way as account 4705 and 4707 are for cost of power transactions.

\* The difference between Principal adjustments for 2018 and Balance on the DVA Continuity Schedule is the Total Interest \$(13,108) for 2019 based on December 31, 2018 Balance (Column 'BS' on the Continuity Schedule in the 2020 IRM Rate Generator Model)

10. In booking expense journal entries for Charge Type (CT) 1142 and CT 148 from the IESO invoice, please confirm which of the following approaches is used:
- CT 1142 is booked into Account 1588. CT 148 is pro-rated based on RPP/non-RPP consumption and then booked into Account 1588 and 1589 respectively.
  - CT 148 is booked into Account 1589. The portion of CT 1142 equaling RPP minus HOEP for RPP consumption is booked into Account 1588. The portion of CT 1142 equaling GA RPP is credited into Account 1589.
  - If another approach is used, please explain in detail.
  - Was the approach described in response to the above questions used consistently for all years for which variances are proposed for disposition? If not, please discuss.

11. Questions on CT 1142

- Please describe how the initial RPP related GA is determined for settlement forms submitted by day 4 after the month-end (resulting in CT 1142 on the IESO invoice).

In order to determine the full GA for all customers, Waterloo North Hydro (WNH) multiplies Waterloo North Hydro's total system load (kWh) by the Class B second estimate (\$/MWh converted to \$/kWh) for the settlement month. The dollar value associated with Class A usage is subtracted from the total Global Adjustment amount to determine the Class B Global Adjustment amount (CT 148). The usage for all non-RPP customers is multiplied by the second estimate to determine the amount of the non-RPP portion of GA (recorded in 1589). The remaining amount must be RPP GA which is the GA portion that is included in CT 1142 (as a negative reduction from total Ont Fair Hydro Plan Eligible RPP Consumer Disct Sett Program).

- Please describe the process for truing up CT 1142 to actual RPP kWh, including which data is used for each TOU/Tier 1&2 prices, as well as the timing of the true up.

In account 1588 RSVA power for 2017 and 2018 true-ups between TOU / Tier 1 & 2 prices have been calculated and discussed in section 2.7 of the IRM application. This has been corrected annually since the review of the 2019

IRM application however this process is being amended under the new accounting guidance methodology and will be reviewed monthly on a go forward basis.

- c. Has CT 1142 been trued up for with the IESO for all of 2018?

Yes, as noted in section 2.7 of the IRM application the full year for 2018 has been reviewed and will be settled with the IESO upon approval of this application.

- d. Which months from 2018 were trued up in 2019?  
i. Were these true ups recorded in the 2018 or 2019 balance in the General Ledger?

All months for 2018 were trued up in the 2019 year and adjusted in the general ledger and will be settled with the IESO upon approval of this application.

- e. Have all of the 2018 related true-up been reflected in the applicant's DVA Continuity Schedule in this proceeding?

Yes, the true ups for 2017 and 2018 price variances have been recorded in the principal adjustment column of the DVA Continuity Schedule as discussed in section 2.7 of the IRM application.

**12. Questions on CT 148**

- a. Please describe the process for the initial recording of CT 148 in the accounts (i.e. 1588 and 1589).

As noted above in 2a) In order to determine the full GA for all customers, Waterloo North Hydro (WNH) multiplies Waterloo North Hydro's total system load (kWh) by the Class B second estimate (\$/MWh converted to \$/kWh) for the settlement month. The dollar value associated with Class A usage is subtracted from the total Global Adjustment amount to determine the Class B Global Adjustment amount (CT 148). This is recorded in 1589. The RPP portion of GA is removed from 1589 as noted above and included on CT 1142. This allows for all RPP GA to be fully settled through 1588 the IESO settlement process leaving \$0 in 1589 for RPP customers.



## INSTRUCTIONS FOR COMPLETING GA ANALYSIS WORKFORM



- b. Please describe the process for true up of the GA related cost to ensure that the amounts reflected in Account 1588 are related to RPP GA costs and amounts in 1589 are related to only non-RPP GA costs.

As noted above there are no true-ups for GA related costs in Account 1589 with the exception of corrections of bills. If there are corrections, they are included in the following month's settlement after the error has been found. WNH determines the type of customer by an internal rate code. Only non-RPP rate codes are included in the 1589 usage amounts.

- c. What data is used to determine the non-RPP kWh volume that is multiplied with the actual GA per kWh rate (based on CT 148) for recording as the initial GA expense in Account 1589?

The non-RPP kWh volume billed in the month is recorded as expense in Account 1589. WNH has reports to determine the full amount 'billed' for non-RPP customers with the corresponding usage. This billed amount is based on the first estimate. The same usage is used when the actual GA rate has been provided. The difference is what remains in 1589.

- d. Does the utility true up the initial recording of CT 148 in Accounts 1588 and 1589 based on estimated RPP/non-RPP consumption proportions to actuals based on actual RPP-non-RPP consumption proportions?

No true-ups to kWh usage. The amounts initially recorded are based on billed kWhs.

- e. Please indicate which months from 2018 were true up in 2019 for CT 148 proportions between RPP and non-RPP
- i. Were these true ups recorded in the 2018 or 2019 balance in the General Ledger?

No true-ups for proportion between RPP and Non-RPP. All transactions for 2018 have been included in 2018.

- f. Are all true-ups for 2018 consumption reflected in the DVA Continuity Schedule?

No true-ups for consumption, therefore all consumption is reflected in the DVA Continuity Schedule under 2018.

13. Questions regarding principal adjustments and reversals on the DVA Continuity Schedule:

Questions on Principal Adjustments - Accounts 1588 and 1589

- a. Did the applicant have principal adjustments in its 2019 rate proceeding which were approved for disposition?

Yes, a principal adjustment for 2017 1588 balance adjustments was included in the 2019 IRM application. After further review in 2019 this amount was higher and the remainder has been included in this application as discussed in section 2.7.

- b. If yes, please provide a break-down of the total amount of principal adjustments that were approved (e.g. true-up of unbilled, true up of CT 1142, true up of CT 148 etc.) for each of Accounts 1588 and 1589.

The amount that was included for 1588 price variance in the 2019 application was \$398,902.

- c. Has the applicant reversed the adjustment approved in 2019 rates in its current proposed amount for disposition?

**NB:** only the principal adjustments amounts that were disposed in the previous proceeding should be reversed in this proceeding. For example, if no amount related to unbilled to billed adjustment for 2018 consumption was included in 2019 proceeding, this amount should not be included as a “reversal” from previous year.

No, the total adjustment that was required for the 2017 price variance is higher than the adjustment amount recorded in the 2019 IRM application.

- d. Please confirm that the allocation of charge type 148 has been trued up to actual proportion of RPP/non-RPP consumption in the GL.

Yes, these adjustments are reflected in the G/L transactions in the normal course of business.

# **Attachment C**

## **1595 Analysis Workform**



# 1595 Analysis Workform

Version 1.0

**Account 1595 Analysis Workform**

Input cells  
Drop down cells

Utility Name	Waterloo North Hydro Inc.

Utility name must be selected

Please select "yes" for the 1595 Rate Years being Requested for Disposition

2012	No
2013	No
2014	No
2015	No
2016	No
2017	Yes

# 1595 Analysis Workform

Step 1

Components of the 1595 Account Balances:	Principal Balance Approved for Disposition	Carrying Charges Balance Approved for Disposition	Total Balances Approved for Disposition	Rate Rider Amounts Collected/(Returned)	Residual Balances Pertaining to Principal and Carrying Charges Approved for Disposition	Carrying Charges Recorded on Net Principal Account Balances	Total Residual Balances	Collections>Returns Variance (%)
Total Group 1 and Group 2 Balances excluding Account 1589 - Global Adjustment	-\$4,500,952	-\$160,831	-\$4,661,783	-\$4,610,415	-\$51,368	-\$25,739	-\$77,107	1.1%
Account 1589 - Global Adjustment	\$1,654,466	\$35,146	\$1,689,612	\$1,725,261	-\$35,649	\$10,075	-\$25,574	-2.1%
Total Group 1 and Group 2 Balances	-\$2,846,486	-\$125,685	-\$2,972,171	-\$2,885,154	-\$87,017	-\$15,664	-\$102,681	2.9%
<b>Total residual balance per continuity schedule:</b>							-\$102,681	
<b>Difference (any variance should be explained):</b>							\$0	

\*Unresolved differences of +/- 10% require further analysis and explanation. Amounts originally approved for disposition based on forecasted consumption or number of customers must be compared to actual figures.

**Additional Notes and Comments**

All balances are within 10% difference and therefore do not require additional analysis or explanation.

# **Attachment D**

**Current January 1, 2018 Tariff Sheet**



# **Ontario Energy Board Commission de l'énergie de l'Ontario**

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## **DECISION AND RATE ORDER**

**EB-2018-0074**

### **WATERLOO NORTH HYDRO INC.**

**Application for rates and other charges to be effective January 1, 2019**

**By Delegation, Before: Theodore Antonopoulos**

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**December 13, 2018**

# 1 INTRODUCTION AND SUMMARY

Through this Decision and Order, the Ontario Energy Board (OEB) approves the incentive rate-setting mechanism (IRM) application filed by Waterloo North Hydro Inc. (Waterloo North Hydro) on August 10, 2018, as amended during the course of the proceeding.

Waterloo North Hydro serves about 57,000 mostly residential and commercial electricity customers in the City of Waterloo and the Townships of Wellesley and Woolwich. The company is seeking the OEB's approval for the rates it charges to distribute electricity to its customers, as is required of licenced and rate-regulated distributors in Ontario.

A distributor may choose one of three rate-setting methodologies approved by the OEB. Each of these is explained in the OEB's [Chapter 3 Filing Requirements for Incentive Rate-Setting Applications](#) (the Filing Requirements).

Waterloo North Hydro's application is based on a Price Cap Incentive Rate-setting option (Price Cap IR) with a five-year term. The Price Cap IR option involves the setting of rates through a cost of service application in the first year. Mechanistic price cap adjustments, based on inflation and the OEB's assessment of the distributor's efficiency, are then approved through IRM applications in each of the ensuing four (adjustment) years.

As a result of the OEB's findings in this Decision, there will be a monthly total bill decrease before taxes of \$1.58 for a residential customer consuming 750 kWh, effective January 1, 2019.

Waterloo North Hydro has also applied to change the composition of its distribution service rates. Residential distribution service rates currently include a fixed monthly charge and a variable usage charge. In 2015, the OEB issued a policy to transition these rates to a fully fixed structure over a four-year period beginning in 2016.<sup>1</sup> Accordingly, in 2019 the final upward adjustment, exceeding the mechanistic adjustment alone, in this decision has been made and now the distribution rates have transitioned to a fully fixed structure. There is no longer a variable usage rate for this class of customer. This policy change does not affect the total revenue that distributors collect from residential customers.

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<sup>1</sup> OEB Policy – "A New Distribution Rate Design for Residential Electricity Customers." EB-2012-0410, April 2, 2015



## 2 THE PROCESS

This Decision is being issued by delegated authority, without a hearing, under section 6 of the *Ontario Energy Board Act, 1998* (the OEB Act).

The OEB follows a standardized and streamlined process for IRM applications filed under Price Cap IR. In each adjustment year of a Price Cap IR term, the OEB prepares a Rate Generator Model that includes information from the distributor's past proceedings and annual reporting requirements. A distributor will then review and complete the Rate Generator Model and include it with its application.

During the course of the proceeding, the Rate Generator Model will also be updated or corrected, as required. The Rate Generator Model updates base rates, retail transmission service rates and, if applicable, shared tax saving adjustments. It also calculates rate riders for the disposition of deferral and variance account balances.

Waterloo North Hydro filed its application on August 10, 2018, under section 78 of the OEB Act and in accordance with the Filing Requirements. Waterloo North Hydro supported its application with written evidence and a completed Rate Generator Model. Questions were asked of, and answers were provided by, Waterloo North Hydro through emails and phone calls with the OEB. Based on this information, a draft decision was prepared and provided to Waterloo North Hydro on November 29, 2018. Waterloo North Hydro was given the opportunity to provide its comments on the draft for consideration prior to the OEB issuing this Decision.

## 3 ORGANIZATION OF THE DECISION

In this Decision, the OEB addresses the following issues, and provides reasons for approving or denying Waterloo North Hydro's proposals relating to each of them:

- Price Cap Adjustment
- Retail Transmission Service Rates
- Group 1 Deferral and Variance Accounts
- Residential Rate Design

In the final section, the OEB addresses the steps to implement the final rates that flow from this Decision.

This Decision does not address rates and charges approved by the OEB in previous proceedings which are not part of the scope of an IRM proceeding (such as specific

service charges and loss factors). No further approvals are required to continue to include these items on a distributor's Tariff of Rates and Charges.

## 4 PRICE CAP ADJUSTMENT

Waterloo North Hydro seeks to increase its rates, effective January 1, 2019, based on a mechanistic rate adjustment using the OEB-approved *inflation minus X-factor* formula applicable to Price Cap IR applications.

The components of the Price Cap IR formula applicable to Waterloo North Hydro are set out in Table 4.1, below. Inserting these components into the formula results in a 1.20% increase to Waterloo North Hydro's rates:  $1.20\% = 1.50\% - (0.00\% + 0.30\%)$ .

**Table 4.1: Price Cap IR Adjustment Formula**

Components		Amount
Inflation Factor <sup>2</sup>		1.50%
X-Factor	Productivity <sup>3</sup>	0.00%
	Stretch (0.00% – 0.60%) <sup>4</sup>	0.30%

The inflation factor of 1.50% applies to all Price Cap IR applications for the 2019 rate year.

The X-factor is the sum of the productivity factor and the stretch factor. It is a productivity offset that will vary among different groupings of distributors. Subtracting the X-factor from inflation ensures that rates decline in real, constant-dollar terms, providing distributors with a tangible incentive to improve efficiency or else experience declining net income.

<sup>2</sup> For 2019 Inflation factor see Ontario Energy Board 2019 Electricity Distribution Rate applications - Updates November 23, 2018.

<sup>3</sup> Report of the OEB – “Rate Setting Parameters and Benchmarking under the Renewed Regulatory Framework for Ontario’s Electricity Distributors” EB-2010-0379, Issued November 21, 2013, corrected December 4, 2013.

<sup>4</sup> The stretch factor groupings are based on the Report to the Ontario Energy Board – “Empirical Research in Support of Incentive Rate-Setting: 2017 Benchmarking Update”, prepared by Pacific Economics Group LLC., August 2018.

The productivity component of the X-factor is based on industry conditions over a historical study period and applies to all Price Cap IR applications for the 2019 rate year.

The stretch factor component of the X-factor is distributor specific. The OEB has established five stretch factor groupings, each within a range from 0.00% to 0.60%. The stretch factor assigned to any particular distributor is based on the distributor's total cost performance as benchmarked against other distributors in Ontario. The most efficient distributor would be assigned the lowest stretch factor of 0.00%. Conversely, a higher stretch factor would be applied to a less efficient distributor (in accordance with its cost performance relative to expected levels) to reflect the incremental productivity gains that the distributor is expected to achieve. The stretch factor assigned to Waterloo North Hydro is 0.30%.

## Findings

The OEB finds that Waterloo North Hydro's request for a 1.20% rate adjustment is in accordance with the annually updated parameters set by the OEB. The adjustment is approved, and Waterloo North Hydro's new rates shall be effective January 1, 2019.

The adjustment applies to distribution rates (fixed and variable charges) uniformly across all customer classes.<sup>5</sup>

## 5 RETAIL TRANSMISSION SERVICE RATES

Distributors charge retail transmission service rates (RTSRs) to their customers to recover the amounts they pay to a transmitter, a host distributor or both for transmission services. All transmitters charge Uniform Transmission Rates (UTRs) approved by the OEB to distributors connected to the transmission system. Host distributors charge host-RTSRs to distributors embedded within the host's distribution system.

Waterloo North Hydro is partially embedded within Hydro One Networks Inc.'s distribution system and is requesting approval to adjust the RTSRs that it charges its customers to reflect the rates that it pays for transmission services included in Table 5.1 and Table 5.2.

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<sup>5</sup> Price Cap IR and Annual IR Index adjustments do not apply to the following rates and charges: rate riders, rate adders, low voltage service charges, retail transmission service rates, wholesale market service rate, smart metering entity charge, rural or remote electricity rate protection charge, standard supply service – administrative charge, transformation and primary metering allowances, loss factors, specific service charges, microFIT charge, and retail service charges.

Table 5.1: UTRs<sup>6</sup>

Current Approved UTRs (2018)	per kW
Network Service Rate	\$3.61
<u>Connection Service Rates</u>	
Line Connection Service Rate	\$0.95
Transformation Connection Service Rate	\$2.34

Table 5.2: Hydro One Networks Inc. Sub-Transmission Host-RTSRs<sup>7</sup>

Current Approved Sub-Transmission Host RTSRs (2017)	per kW
Network Service Rate	\$3.19
<u>Connection Service Rates</u>	
Line Connection Service Rate	\$0.77
Transformation Connection Service Rate	\$1.75

## Findings

Waterloo North Hydro's proposed adjustment to its RTSRs is approved. The RTSRs were adjusted based on the current UTRs and host-RTSRs. Differences resulting from the approval of new 2019 UTRs or RTSRs will be captured in Accounts 1584 and 1586 for future disposition.

## 6 GROUP 1 DEFERRAL AND VARIANCE ACCOUNTS

In each year of an IRM term, the OEB will review a distributor's Group 1 deferral and variance accounts in order to determine whether their total balance should be disposed.<sup>8</sup> OEB policy requires that Group 1 accounts be disposed if they exceed (as a

<sup>6</sup> Decision and Order, EB-2017-0359, February 1, 2018

<sup>7</sup> Decision and Order, EB-2016-0081, December 21, 2016

<sup>8</sup> Group 1 accounts track the differences between the costs that a distributor is billed for certain IESO and host distributor services (including the cost of power) and the associated revenues that the distributor receives from its customers for these services. The total net difference between these costs and revenues is disposed to customers through a temporary charge or credit known as a rate rider.

debit or credit) a pre-set disposition threshold of \$0.001 per kWh, unless a distributor justifies why balances should not be disposed.<sup>9</sup> If the balance does not exceed the threshold, a distributor may elect to request disposition.

The 2017 actual year-end total balance for Waterloo North Hydro's Group 1 accounts including interest projected to December 31, 2018 is a credit of \$1,786,823. This amount represents a total credit claim of \$0.0013 per kWh, which exceeds the disposition threshold. Waterloo North Hydro proposes the disposition of this credit amount over a one-year period.

Included in the balance of the Group 1 accounts is the Global Adjustment (GA) account debit balance of \$1,025,831. A customer's costs for the commodity portion of its electricity service reflects the sum of two charges: the price of electricity established by the operation of the Independent Electricity System Operator (IESO) administered wholesale market, and the GA.<sup>10</sup>

The GA is paid by consumers in several different ways:

- For Regulated Price Plan (RPP) customers, the GA is incorporated into the standard commodity rates, therefore there is no variance account for the GA.
- Customers who participate in the Ontario Industrial Conservation Initiative program are referred to as "Class A" customers. These customers are assessed GA costs through a peak demand factor that is based on the percentage their demand contributes to the top five Ontario system peaks. This factor determines a Class A customer's allocation for a year-long billing period that starts in July every year. As distributors settle with Class A customers based on the actual GA costs there is no resulting variance.
- "Class B" non-RPP customers pay the GA charge based on the amount of electricity they consume in a month (kWh). Class B non-RPP customers are billed GA based on the IESO published GA price. For Class B non-RPP customers, distributors track any difference between the billed amounts and actual costs in the GA Variance Account for disposal, once audited.

Under the general principle of cost causality, customer groups that cause variances should be responsible for paying (or receiving credits) for their disposal. The movement

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<sup>9</sup> Report of the OEB – "Electricity Distributors' Deferral and Variance Account Review Initiative (EDDVAR)." EB-2008-0046, July 31, 2009.

<sup>10</sup> The GA is established monthly, by the IESO, and varies in accordance with market conditions. It is the difference between the market price and the sum of the rates paid to regulated and contracted generators and conservation and demand management (demand response) program costs.

from one class to another should not prevent identifiable customers from paying down/receiving a debit/credit balance.

Waterloo North Hydro proposes the recovery of its GA variance account balance of \$1,025,831 as at December 31, 2017, including interest to December 31, 2018, in accordance with the following table.

**Table 6.1: Recovery of GA Variance**

Proposed Amounts	Proposed Method for Recovery
\$853,353 recovered from customers who were Class B for the entire period from January 2017 to December 2017	per kWh rate rider
\$172,478 from customers formerly in Class B during the period January 2017 to July 2017 who were reclassified to Class A	12 equal installments <sup>11</sup>

The balance of the Group 1 accounts includes \$45,844 for the recovery of Capacity Based Recovery (CBR) charges for Class B customers related to the IESO's wholesale energy market for the CBR program. Distributors paid CBR charges to the IESO in 2017 and recorded these to a dedicated sub-account. The disposition of this sub-account is impacted by whether or not a distributor had any customers who were part of Class A during the period from January 2017 to December 2017. The disposition is also impacted by whether or not the Class B CBR rate riders in the 2019 IRM Rate Generator Model<sup>12</sup> rounds to zero at the fourth decimal place in one or more rate classes.

Waterloo North Hydro had Class A customers during the period from January 2017 to December 2017 but the CBR Class B rate riders calculated rounded to zero at the fourth decimal place in one or more of the rate classes. In this event, the entire Account 1580 sub-account CBR Class B is added to the Account 1580 WMS control account to be disposed through the general purpose Group 1 Deferral and Variance Account.

The remaining Group 1 accounts being sought for disposition, through the general Deferral and Variance Account rate rider, include the following flow through variance accounts: Low Voltage Charges, Smart Meter Entity Charges, Wholesale Market Service Charges, Retail Transmission Service Charges, Commodity Power Charges,

<sup>11</sup> 2019 IRM Rate Generator Model, Tab 6.1a "GA Allocation"

<sup>12</sup> 2019 IRM Rate Generator Model, Tab 6.2 "CBR B"

and Account 1595 residual balances. These Group 1 accounts have a total credit balance of \$2,812,654, which results in a refund to customers.

The balances proposed for disposition reconcile with the amounts reported as part of the OEB's *Electricity Reporting and Record-Keeping Requirements*.<sup>13</sup> Waterloo North Hydro further notes that its proposal for a one-year disposition period is in accordance with the OEB's policy.<sup>14</sup>

Upon reviewing the applicant's GA Analysis Workform, OEB staff asked Waterloo North Hydro a series of preliminary questions in relation to the GA Methodology Description on Accounts 1588 and 1589. At OEB staff's request, Waterloo North Hydro completed a "RPP Settlement True-up" table, which contains two tabs: one to calculate a price variance for the cost of power and global adjustment; and, the other to calculate the true-up related to a quantity variance (difference between estimated and actual consumption) for RPP customers.

Earlier this year, the OEB suspended its approvals of Group 1 rate riders on a final basis. As stated in its letter to the sector dated July 20, 2018, the OEB will determine whether the riders will be approved on an interim basis or not approved at all (i.e. no disposition of account balances) on a case by case basis until further notice.<sup>15</sup>

## Findings

The OEB is satisfied that the balance of account 1589 is reasonable and is adequately supported. In addition, the OEB finds that Waterloo North Hydro's credit balance of \$1,105,779 of account 1588 RSVA power is somewhat high for a distributor of its size. The OEB expects Waterloo North Hydro to perform an internal review to determine the operational reasons for this balance and report its findings back to the OEB with its next rate application. Given that the OEB is not disposing of Group 1 accounts generally on a final basis, in the event that Waterloo North Hydro uncovers any material discrepancies in account 1588, it would have the opportunity to adjust the balance of this account in future.

The OEB approves the disposition of a credit balance of \$1,786,823 as of December 31, 2017, including interest projected to December 31, 2018 for Group 1 accounts on an interim basis.

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<sup>13</sup> Electricity Reporting and Record Keeping Requirements, Version dated May 3, 2016

<sup>14</sup> Report of the OEB – "Electricity Distributors' Deferral and Variance Account Review Initiative (EDDVAR)." EB-2008-0046, July 31, 2009.

<sup>15</sup> OEB letter to all rate-regulated licensed electricity distributors, Re: OEB's Plan to Standardize Processes to Improve Accuracy of Commodity Pass-Through Variance Accounts, July 20, 2018.

The following table identifies the principal and interest amounts which the OEB approves for disposition.

**Table 6.2: Group 1 Deferral and Variance Account Balances**

<b>Account Name</b>	<b>Account Number</b>	<b>Principal Balance (\$) A</b>	<b>Interest Balance (\$) B</b>	<b>Total Claim (\$) C=A+B</b>
LV Variance Account	1550	185,066	4,524	189,590
Smart Meter Entity Variance Charge	1551	(11,804)	(437)	(12,241)
RSVA - Wholesale Market Service Charge	1580	(1,893,677)	(79,282)	(1,972,959)
Variance WMS - Sub-account CBR Class B	1580	(44,803)	(1,041)	(45,844)
RSVA - Retail Transmission Network Charge	1584	(75,969)	(2,875)	(78,844)
RSVA - Retail Transmission Connection Charge	1586	104,293	2,932	107,225
RSVA – Power	1588	(1,078,443)	(27,336)	(1,105,779)
RSVA - Global Adjustment	1589	995,825	30,006	1,025,831
Disposition and Recovery of Regulatory Balances (2016)	1595	1,526,329	(1,420,131)	106,198
<b>Totals for all Group 1 accounts</b>		(293,183)	(1,493,640)	(1,786,823)

The balance of each of the Group 1 accounts approved for disposition shall be transferred to the applicable principal and interest carrying charge sub-accounts of Account 1595. Such transfer shall be pursuant to the requirements specified in Article 220, Account Descriptions, of the *Accounting Procedures Handbook for Electricity Distributors*.<sup>16</sup> The date of the transfer must be the same as the effective date for the associated rates, which is, generally, the start of the rate year. Waterloo North Hydro shall ensure these adjustments are included in the reporting period ending March 31, 2019 (Quarter 1).

<sup>16</sup> Accounting Procedures Handbook for Electricity Distributors, effective January 1, 2012



The OEB approves these balances to be disposed through interim rate riders, and charges as calculated in the Rate Generator Model. The interim rate riders, and charges will be in effect over a one-year period from January 1, 2019 to December 31, 2019.<sup>17</sup>

## 7 RESIDENTIAL RATE DESIGN

All residential distribution rates currently include a fixed monthly charge and a variable usage charge. The OEB's residential rate design policy stipulates that distributors will transition residential customers to a fully fixed monthly distribution service charge over a four-year period, beginning in 2016.<sup>18</sup> This is the last year of Waterloo North Hydro's transition period and, accordingly, 2019 is the final year in which Waterloo North Hydro's rates will be adjusted upwards by more than the mechanistic adjustment alone. Waterloo North Hydro has transitioned to a fully fixed structure.

The OEB expects an applicant to apply two tests to evaluate whether mitigation of bill impacts for customers is required during the transition period. Mitigation usually takes the form of a lengthening of the transition period. The first test is to calculate the change in the monthly fixed charge, and to consider mitigation if it exceeds \$4. The second is to calculate the total bill impact of the proposals in the application for low volume residential customers (defined as those residential RPP customers whose consumption is at the 10<sup>th</sup> percentile for the class). Mitigation may be required if the bill impact related to the application exceeds 10% for these customers.

Waterloo North Hydro notes that the implementation of the transition results in an increase to the fixed charge prior to the price cap adjustment of \$3.65. The bill impacts arising from the proposals in this application, including the fixed rate change, are below 10% for low volume residential customers.

### Findings

The OEB finds that the proposed 2019 increase to the monthly fixed charge is calculated in accordance with the OEB's residential rate design policy. The distributor has now completed its transition to a fully fixed rate structure. The results of the monthly fixed charge, and total bill impact for low consumption residential consumers demonstrate that no mitigation is required. The OEB approves the increase as proposed by the applicant and calculated in the final Rate Generator Model.

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<sup>17</sup> 2019 IRM Rate Generator Model Tab 6.1 GA, Tab 6.1a GA Allocation, and Tab 7 Calculation of Def-Var RR.

<sup>18</sup> As outlined in the Policy cited at footnote 1 above.

## 8 IMPLEMENTATION AND ORDER

This Decision is accompanied by a Rate Generator Model, applicable supporting models, and a Tariff of Rates and Charges (Schedule A).

Model entries were reviewed in order to ensure that they are in accordance with Waterloo North Hydro's last cost of service decision, and to ensure that the 2018 OEB-approved Tariff of Rates and Charges, as well as the cost, revenue and consumption results from 2017, are as reported by Waterloo North Hydro to the OEB.

The Rate Generator Model was adjusted, where applicable, to correct any discrepancies. The Rate Generator Model incorporates the rates set out in the following table.

**Table 8.1: Regulatory Charges**

Rate	per kWh
Rural or Remote Electricity Rate Protection (RRRP)	\$0.0003
Wholesale Market Service (WMS) billed to Class A and B Customers	\$0.0032
Capacity Based Recovery (CBR) billed to Class B Customers	\$0.0004

Each of these rates is a component of the "Regulatory Charge" on a customer's bill, established annually by the OEB through a separate, generic order. The RRRP, WMS and CBR rates were set by the OEB on December 20, 2017.<sup>19</sup>

The Smart Metering Entity Charge is a component of the "Distribution Charge" on a customer's bill, established by the OEB through a separate order. The Smart Metering Entity Charge was set by the OEB on March 1, 2018.<sup>20</sup>

### THE ONTARIO ENERGY BOARD ORDERS THAT

1. The Tariff of Rates and Charges set out in Schedule A of this Decision and Rate Order is approved effective January 1, 2019 for electricity consumed or estimated to have been consumed on and after such date. Waterloo North Hydro Inc. shall notify

<sup>19</sup> Decision and Order, EB-2017-0333, December 20, 2017.

<sup>20</sup> Decision and Order, EB-2017-0290, March 1, 2018.

its customers of the rate changes no later than the delivery of the first bill reflecting the new final and interim rates.

**DATED** at Toronto, December 13, 2018

**ONTARIO ENERGY BOARD**

*Original Signed By*

Kirsten Walli  
Board Secretary

**Schedule A**

**To Decision and Rate Order**

**Tariff of Rates and Charges**

**OEB File No: EB-2018-0074**

**DATED: December 13, 2018**

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2019**  
**This schedule supersedes and replaces all previously**  
**approved schedules of Rates, Charges and Loss Factors**

EB-2018-0074

## RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate 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. All customers are single-phase. Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	31.51
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kWh	(0.0020)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0067
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0025

## 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

# Waterloo North Hydro Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2019

This schedule supersedes and replaces all previously  
approved schedules of Rates, Charges and Loss Factors

EB-2018-0074

## GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	33.15
Smart Metering Entity Charge - effective until December 31, 2022	\$	0.57
Distribution Volumetric Rate	\$/kWh	0.0165
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kWh	(0.0020)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0062
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023

### 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

# Waterloo North Hydro Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2019

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EB-2018-0074

## GENERAL SERVICE 50 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 greater than, 50 kW but less than 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. Further servicing details are available in the distributor's Conditions of Service. 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; General Service 50 to 999 kW interval metered; and General Service 1,000 to 4,999 kW interval metered.

### 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.

The rate rider for the disposition of Global Adjustment is only applicable to non-RPP Class B customers. It is not applicable to WMP, customers that transitioned between Class A and Class B during the variance account accumulation period, or to customers that were in Class A for the entire period. Customers who transitioned are to be charged or refunded their share of the variance disposed through customer specific billing adjustments. This rate rider is to be consistently applied for the entire period to the sunset date of the rate rider. In addition, this rate rider is applicable to all new non-RPP Class B customers.

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	\$	123.85
Distribution Volumetric Rate	\$/kW	5.2545
Low Voltage Service Rate	\$/kW	0.0738
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for Disposition of Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Applicable only for Non-Wholesale Market Participants - Approved on an Interim Basis	\$/kW	(0.8553)
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kW	0.0920
Retail Transmission Rate - Network Service Rate - (less than 1,000 kW)	\$/kW	2.5492
Retail Transmission Rate - Network Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	2.7077
Retail Transmission Rate - Network Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	2.7040
Retail Transmission Rate - Line and Transformation Connection Service Rate - (less than 1,000 kW)	\$/kW	0.8842
Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.1043
Retail Transmission Rate - Line and Trans. Connection Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	1.1032

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2019**

**This schedule supersedes and replaces all previously  
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EB-2018-0074

**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



**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
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EB-2018-0074

**LARGE USE SERVICE CLASSIFICATION**

This classification applies to an account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Class A and Class B consumers are defined in accordance with O. Reg. 429/04. 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	\$	7,236.93
Distribution Volumetric Rate	\$/kW	4.1701
Low Voltage Service Rate	\$/kW	0.0925
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kW	(1.0712)
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9978
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.1082

**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

# Waterloo North Hydro Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2019

**This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors**

EB-2018-0074

## 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 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Class B consumers are defined in accordance with O. Reg. 429/04. 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 (per connection)	\$	11.01
Distribution Volumetric Rate	\$/kWh	0.0137
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kWh	(0.0021)
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0062
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023

### 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

# Waterloo North Hydro Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2019

This schedule supersedes and replaces all previously  
approved schedules of Rates, Charges and Loss Factors

EB-2018-0074

## STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved Ontario Energy Board street lighting load shape template. Class B consumers are defined in accordance with O. Reg. 429/04. 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 (per connection)	\$	0.34
Distribution Volumetric Rate	\$/kW	9.7264
Low Voltage Service Rate	\$/kW	0.0570
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kW	(0.6663)
Retail Transmission Rate - Network Service Rate	\$/kW	1.9227
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.6833

### 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

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2019**  
**This schedule supersedes and replaces all previously**  
**approved schedules of Rates, Charges and Loss Factors**

EB-2018-0074

### **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.

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
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# Waterloo North Hydro Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2019

This schedule supersedes and replaces all previously  
approved schedules of Rates, Charges and Loss Factors

EB-2018-0074

## EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION

This classification applies to an electricity distributor licensed by the Ontario Energy Board that is provided electricity by means of this distributor's facilities. Class B consumers are defined in accordance with O. Reg. 429/04. 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

Distribution Volumetric Rate	\$/kW	0.0207
Rate Rider for Disposition of Global Adjustment Account (2019) - effective until December 31, 2019 - Applicable only for Non-RPP Customers - Approved on an Interim Basis	\$/kWh	0.0018
Rate Rider for the Disposition of Group 1 Deferral/Variance Accounts (2019) - effective until December 31, 2019 - Approved on an Interim Basis	\$/kW	(0.8677)

### 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

# Waterloo North Hydro Inc.

## TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2019

This schedule supersedes and replaces all previously  
approved schedules of Rates, Charges and Loss Factors

EB-2018-0074

## ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.60)
Primary Metering Allowance for Transformer Losses - applied to measured demand & energy	%	(1.00)

## 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

Easement letter	\$	15.00
Notification charge	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque (plus bank charges)	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Income tax letter	\$	15.00
Account set up charge / change of occupancy charge (plus credit agency costs if applicable)	\$	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
Disconnect/reconnect at meter - during regular hours	\$	65.00
Disconnect/reconnect at meter - after regular hours	\$	185.00

### Other

Specific charge for access to the power poles - \$/pole/year (with the exception of wireless attachments)	\$	43.63
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**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2019**  
**This schedule supersedes and replaces all previously**  
**approved schedules of Rates, Charges and Loss Factors**

EB-2018-0074

## 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.

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	1.0362
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0147
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0259
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0047

## **Attachment E**

### **2016 Cost of Service Settlement Agreement**



**John A.D. Vellone**  
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T 416.367.6000  
F 416.367.6749  
blg.com



November 13, 2015

**Delivered by RESS, Email and Courier**

Ms. Kirsten Walli  
Board Secretary  
Ontario Energy Board  
2300 Yonge Street  
Suite 2701  
Toronto, ON M4P 1E4

Dear Ms. Walli:

**Re: Board File No. EB-2015-0108  
Waterloo North Hydro (“WNH”)  
Updated Settlement Proposal (incl. updates for Cost of Capital)**

Please find attached WNH’s amended Settlement Proposal. The version that was previously filed with the Ontario Energy Board on October 1, 2015 has been amended with respect to the appropriate use of the terms “privilege” and “confidentiality, as described in the Board Decision and Procedural Order No. 3 issued on November 6, 2015, as well as being updated with the Cost of Capital Parameter Updates for 2016 Applications which was issued by the Board on October 15, 2015.

All amended sections have been side barred for ease of reference.

Instructions for updating copies of previously filed evidence in this matter are provided as Attachment A to this letter.

In support of this updated Settlement Proposal, WNH has also filed several excel files which are listed in Attachment B to this letter.

Yours very truly,

**BORDEN LADNER GERVAIS LLP**

Per:

*Original signed by James K. Little*

James K. Little  
Encl.

cc: Chris Amos, Waterloo North Hydro  
Parties in EB-2015-0108

# Waterloo North Hydro Inc. Board File No. EB-2015-0108

## Attachment A

### Settlement Proposal Update Instructions

Settlement Proposal	Cover	Date	Update	Page	1
Settlement Proposal	Table of Contents,	Update Page References	Update	Page	2
Settlement Proposal	Live Excel Models,	Update File Names	Update	Page	2
Settlement Proposal	Settlement Proposal,	Filed with the Ontario Energy Board: Dates	Update	Page	3
Settlement Proposal	Settlement Proposal,	Update Parameters Reference	Update	Page	3
Settlement Proposal	Settlement Proposal,	Update Board Rules References	Update	Page	3
Settlement Proposal	Settlement Proposal,	Replace 'Guidelines' with 'Practice Direction'	Update	Page	4
Settlement Proposal	Settlement Proposal,	Update Confidentiality References	Update	Page	4
Settlement Proposal	Settlement Proposal,	Replace 'Guidelines' with 'Practice Direction'	Update	Page	5
Settlement Proposal	Issue 2.1,	Update Parameters Reference and Table 5 Reference	Update	Page	14
Settlement Proposal	Issue 2.1,	Table 5 - Long-Term Debt Rate Calculation Added	Update	Page	15
Settlement Proposal	Issue 2.1,	Table 5 Reference (Originally Filed), Updated to Table 6	Update	Page	15
Settlement Proposal	Issue 2.1,	Table 5 Header (Originally Filed), Updated to Table 6	Update	Page	16
Settlement Proposal	Issue 2.1,	Update PILs Model File Name	Update	Page	16
Settlement Proposal	Issue 2.1,	Update Bill Impacts Model File Name	Update	Page	16
Settlement Proposal	Issue 2.1,	Table 6 Reference (Originally Filed), Updated to Table 7	Update	Page	16
Settlement Proposal	Issue 2.1,	Table 6 Header (Originally Filed), Updated to Table 7	Update	Page	17
Settlement Proposal	Issue 2.1,	Table 7 - Revenue Requirement - Updated	Update	Page	17
Settlement Proposal	Issue 2.2,	Update RRWF Model File Name	Update	Page	18
Settlement Proposal	Issue 3.1,	Table 7 Reference (Originally Filed), Updated to Table 8 - twice	Update	Page	19
Settlement Proposal	Issue 3.1,	Table 7 Header (Originally Filed), Updated to Table 8	Update	Page	19
Settlement Proposal	Issue 3.1,	Table 8 Reference (Originally Filed), Updated to Table 9	Update	Page	19
Settlement Proposal	Issue 3.1,	Table 8 Header (Originally Filed), Updated to Table 9	Update	Page	20
Settlement Proposal	Issue 3.2,	Table 9 Reference (Originally Filed), Updated to Table 10	Update	Page	23
Settlement Proposal	Issue 3.2,	Table 9 Header (Originally Filed), Updated to Table 10	Update	Page	23
Settlement Proposal	Issue 3.2,	Table 10 - Revenue to Cost Ratios - Updated	Update	Page	23
Settlement Proposal	Issue 3.2,	Update Cost Allocation Model File Name	Update	Page	23
Settlement Proposal	Issue 3.3,	Updated Appendix 2-PA Calculations	Update	Page	25
Settlement Proposal	Issue 3.3,	Table 11 Reference (Originally Filed), Updated to Table 12	Update	Page	25
Settlement Proposal	Issue 3.3,	Update Unmetered Scattered Load Charges	Update	Page	25
Settlement Proposal	Issue 3.3,	Table 10 Reference (Originally Filed), Updated to Table 11	Update	Page	25
Settlement Proposal	Issue 3.3,	Table 10 Header (Originally Filed), Updated to Table 11	Update	Page	26
Settlement Proposal	Issue 3.3,	Table 11 - Distribution Charges - Updated	Update	Page	26
Settlement Proposal	Issue 3.3,	Table 11 Header (Originally Filed), Updated to Table 12	Update	Page	26
Settlement Proposal	Issue 3.3,	Table 12 - OEB Appendix 2-PA Residential Service Charge Transition - Updated	Update	Page	26
Settlement Proposal	Issue 3.3,	Table 12 Reference (Originally Filed), Updated to Table 13	Update	Page	27
Settlement Proposal	Issue 3.3,	Table 12 Header (Originally Filed), Updated to Table 13	Update	Page	27
Settlement Proposal	Issue 3.3,	Table 13 - Revenue Reconciliation - Updated	Update	Page	27
Settlement Proposal	Issue 3.4,	Table 13 Reference (Originally Filed), Updated to Table 14	Update	Page	28
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Settlement Proposal	Issue 4.1,	Update EDDVAR Model File Name	Update	Page	29
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Settlement Proposal	Issue 4.2,	Table 19 Reference (Originally Filed), Updated to Table 20	Update	Page	36
Settlement Proposal	Issue 4.2,	Table 19 Header (Originally Filed), Updated to Table 20	Update	Page	36
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Settlement Proposal	Appendix E	Updated OEB Appendix 2-EC, Account 1576	Update	Page	53

**Waterloo North Hydro Inc. Board File No. EB-2015-0108**

Attachment B

Filed Supporting Documentation

Waterloo\_2016\_COS\_2015\_EDDVAR\_Continuity Schedule\_Settlement\_Update CoC\_20151023  
Waterloo\_2016\_COS\_Cost\_Allocation\_Model\_Settlement\_Update CoC\_20151023  
Waterloo\_2016\_Test\_Year\_Income\_Tax\_PILs\_Workform\_Settlement\_Update CoC\_20151023  
Waterloo\_2016\_Bill Impacts\_Appendix 2-W\_Settlement\_Update CoC\_20151023  
Waterloo\_2016\_Load Forecast Model\_Settlement\_20151001  
Waterloo\_2016\_Revised\_Rev\_Reqt\_Work\_Form\_V6\_Settlement\_Update CoC\_20151023  
Waterloo\_2016\_Proposed Tariff Schedule\_Appendix 2-Z\_Settlement\_Update CoC\_20151106

**EB-2015-0108**

**IN THE MATTER OF** the *Ontario Energy Board Act*,  
1998, S.O. 1998, c. 15, (Schedule B);

**AND IN THE MATTER OF** an application by Waterloo  
Hydro Inc. for an order approving just and reasonable rates  
and other charges for electricity distribution to be effective  
January 1, 2016.

**WATERLOO NORTH HYDRO INC.**

**SETTLEMENT PROPOSAL**

**Originally filed: October 1, 2015**

**Amended (to reflect updated Cost of Capital parameters): November 13, 2015**

**Waterloo North Hydro Inc.**

**EB-2015-0108**

**Settlement Proposal**

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**LIVE EXCEL MODELS**

In addition to the Appendices listed above, the following live excel models have been filed together with and form an integral part of this Settlement Proposal:

- Waterloo\_2016\_COS\_2015\_EDDVAR\_Continuity Schedule\_Settlement\_Update CoC\_20151023
- Waterloo\_2016\_COS\_Cost\_Allocation\_Model\_Settlement\_Update CoC\_20151023
- Waterloo\_2016\_Test\_Year\_Income\_Tax\_PILs\_Workform\_Settlement\_Update CoC\_20151023
- Waterloo\_2016\_Bill Impacts\_Appendix 2-W\_Settlement\_Update CoC\_20151023
- Waterloo\_2016\_Load Forecast Model\_Settlement\_20151001
- Waterloo\_2016\_Revised\_Rev\_Reqt\_Work\_Form\_V6\_Settlement\_Update CoC\_20151023
- Waterloo\_2016\_Proposed Tariff Schedule\_Appendix 2-Z\_Settlement\_Update CoC\_20151106

**Waterloo North Hydro Inc.**

**EB-2015-0108**

**Settlement Proposal**

**Original Filed with OEB:** October 1, 2015

**Amended:** November 13, 2015 (to reflect updated cost of capital parameters)

Waterloo North Hydro Inc. (the “Applicant” or “WNH”) filed an application with the Ontario Energy Board (the “Board”) on May 1, 2015, as updated on May 12, 2015 under section 78 of the Ontario Energy Board Act, 1998, S.O. 1998, c. 15, (Schedule B) (the “Act”), seeking approval for changes to the rates that WNH charges for electricity distribution, to be effective January 1, 2016 (Board Docket Number EB-2015-0108) (the “Application”).

The Board issued and WNH published a Notice of Application and Hearing dated June 5, 2015 and Procedural Order No. 1 on June 22, 2015, the latter of which required the parties to the proceeding to develop a draft issues list.

WNH filed its interrogatory responses with the Board on July 31, 2015 and August 7, 2015, pursuant to which WNH updated several models and submitted them to the Board as Excel documents. To clarify matters arising from interrogatories, a technical conference was held on August 19, 2015. On August 24, 2015, following the interrogatories and technical conference, OEB staff submitted a proposed issues list as agreed to by the parties. On August 31, 2015 the Board issued its decision on the proposed issues list, approving the list submitted by OEB staff, and made provision for a settlement conference.

The Settlement Proposal was filed with the Board in connection with the Application on October 1, 2015. The Settlement Proposal is being updated with the Cost of Capital Parameter Updates issued by the Board on October 15, 2015 for Applications with rates effective in 2016 and the results are reflected in this updated Settlement Proposal.

Further to the Board’s Procedural Order No. 1 and its Issues List Decision, a settlement conference was convened on September 3, 2015 and continued to September 4, 2015 in accordance with the Board’s *Rules of Practice and Procedure* (the “Rules”) and the Board’s *Practice Direction on Settlement Conferences* (the “Practice Direction”). Jim Faught acted as facilitator for the settlement conference which lasted for two days.

WNH and the following intervenors (the “Intervenors”), participated in the settlement conference:

University of Waterloo via E2 Energy Inc. (“UofW”);  
Energy Probe Research Foundation (“EP”);  
School Energy Coalition (“SEC”); and  
Vulnerable Energy Consumers Coalition (“VECC”).

WNH and the Intervenors are collectively referred to below as the “Parties”.

Ontario Energy Board staff (“OEB staff”) also participated in the settlement conference. The role adopted by OEB staff is set out in page 5 of the Practice Direction. Although OEB staff is not a party to this Settlement Proposal, as noted in the Practice Direction, OEB staff who did participate in the settlement conference are bound by the same confidentiality requirements that apply to the Parties to the proceeding.

This document is called a “Settlement Proposal” because it is a proposal by the Parties to the Board to settle the issues in this proceeding. It is termed a proposal as between the Parties and the Board. However, as between the Parties, and subject only to the Board’s approval of this Settlement Proposal, this document is intended to be a legal agreement, creating mutual obligations, and binding and enforceable in accordance with its terms. As set forth later in this Preamble, this agreement is subject to a condition subsequent, that if it is not accepted by the Board in its entirety, then unless amended by the Parties it is null and void and of no further effect. In entering into this agreement, the Parties understand and agree that, pursuant to the Act, the Board has exclusive jurisdiction with respect to the interpretation and enforcement of the terms hereof.

The Parties acknowledge that this settlement proceeding is confidential in accordance with the Practice Direction. The Parties understand that confidentiality in that context does not have the same meaning as confidentiality in the Board’s Practice Direction on Confidential Filings, and the rules of that latter document do not apply. Instead, in this settlement conference, and in this Agreement, the Parties have interpreted “confidential” to mean that the documents and other information provided during the course of the settlement proceeding, the discussion of each issue, the offers and counter-offers, and the negotiations leading to the settlement – or not – of each issue during the settlement conference are strictly privileged and without prejudice. None of the foregoing is admissible as evidence in this proceeding, or otherwise, with one exception, the need to resolve a subsequent dispute over the interpretation of any provision of this Settlement Proposal. Further, the Parties shall not disclose those documents or other information to persons who were not attendees at the settlement conference. However, the Parties agree that “attendees” is deemed to include, in this context, persons who were not physically in attendance at the settlement conference but were a) any persons or entities that the Parties engage to assist them with the settlement conference, and b) any persons or entities from whom they seek instructions with respect to the negotiations; in each case provided that any such persons or entities have agreed to be bound by the same confidentiality provisions.

This Settlement Proposal provides a brief description of each of the settled and partially settled issues, as applicable, together with references to the evidence. The Parties agree that references to the “evidence” in this Settlement Proposal shall, unless the context otherwise requires, include (a) additional information included by the Parties in this Settlement Proposal, and (b) the Appendices to this document. The supporting Parties for each settled and partially settled issue, as applicable, agree that the evidence in respect of that settled or partially settled issue, as applicable, is sufficient in the context of the overall settlement to support the proposed settlement, and the sum of the evidence in this proceeding provides an appropriate evidentiary record to support acceptance by the Board of this Settlement Proposal.

There are Appendices to this Settlement Proposal which provide further support for the proposed settlement. The Parties acknowledge that the Appendices were prepared by WNH. While the Intervenors have reviewed the Appendices, the Intervenors are relying on the accuracy of the underlying evidence in entering into this Settlement Proposal.

Outlined below are the final positions of the Parties following the settlement conference. For ease of reference, this Settlement Proposal follows the format of the final approved issues list for the Application attached to Procedural Order No. 2.

The Parties are pleased to advise the Board that they have reached a complete agreement with respect to the settlement of all of the issues in this proceeding. Specifically:

<p><b>“Complete Settlement”</b> means an issue for which complete settlement was reached by all Parties, and if this Settlement Proposal is accepted by the Board, the Parties will not adduce any evidence or argument during the oral hearing in respect of these issues.</p>	<p># issues settled: <b>All</b></p>
<p><b>“Partial Settlement”</b> means an issue for which there is partial settlement, as WNH and the Intervenors who take any position on the issue were able to agree on some, but not all, aspects of the particular issue. If this Settlement Proposal is accepted by the Board, the Parties who take any position on the issue will only adduce evidence and argument during the hearing on those portions of the issues not addressed in this Settlement Proposal.</p>	<p># issues partially settled: <b>None</b></p>
<p><b>“No Settlement”</b> means an issue for which no settlement was reached. WNH and the Intervenors who take a position on the issue will adduce evidence and/or argument at the hearing on the issue.</p>	<p># issues not settled: <b>None</b></p>

If applicable, a Party who is noted as taking no position on an issue may or may not have participated in the discussion on that particular issue, but in either case such Party takes no position a) on the settlement reached, and b) on the sufficiency of the evidence filed to date.

According to the Practice Direction (p. 3), the Parties must consider whether a Settlement Proposal should include an appropriate adjustment mechanism for any settled issue that may be affected by external factors. These adjustments are specifically set out in the text of the Settlement Proposal.

The Parties have settled the issues as a package, and none of the parts of this Settlement Proposal are severable. If the Board does not accept this Settlement Proposal in its entirety, then there is no settlement (unless the Parties agree in writing that any part(s) of this Settlement Proposal that the Board does accept may continue as a valid settlement without inclusion of any part(s) that the Board does not accept).



In the event that the Board directs the Parties to make reasonable efforts to revise the Settlement Proposal, the Parties agree to use reasonable efforts to discuss any potential revisions, but no Party will be obligated to accept any proposed revision. The Parties agree that all of the Parties who took on a position on a particular issue must agree with any revised Settlement Proposal as it relates to that issue prior to its resubmission to the Board.

Unless stated otherwise, the settlement of any particular issue in this proceeding and the positions of the Parties in this Settlement Proposal are without prejudice to the rights of Parties to raise the same issue and/or to take any position thereon in any other proceeding, whether or not WNH is a party to such proceeding.

## **SUMMARY**

In reaching this complete settlement, the Parties have been guided by the Filing Requirements for 2015 rates, the approved issues list attached as Schedule A to the Board's decision of August 31, 2015, and the Report of the Board titled *Renewed Regulatory Framework for Electricity Distributors: A Performance-Based Approach* dated October 18, 2012 ("RRFE").

This Settlement Proposal reflects a complete settlement of the issues in this proceeding.

The Parties believe that, since there are no areas of disagreement among the Parties, no oral hearing is required if this Settlement Proposal is accepted.

Based on the foregoing, and the evidence and rationale provided below, the parties agree that this Settlement Proposal is appropriate and recommend its acceptance by the Board. Please refer to Appendix A for the schedule of draft tariffs resulting if this settlement is accepted by the Board. This Settlement Proposal reflects the Parties agreement on an effective date for new rates of January 1, 2016.

## 1. Planning

### 1.1 Capital

*Is the level of planned capital expenditures appropriate and is the rationale for planning and pacing choices appropriate and adequately explained, giving due consideration to:*

- *customer feedback and preferences;*
- *productivity;*
- *benchmarking of costs;*
- *reliability and service quality;*
- *impact on distribution rates;*
- *trade-offs with OM&A spending;*
- *government-mandated obligations; and*
- *the objectives of the Applicant and its customers*

**Complete Settlement:** For the purposes of the settlement of all of the issues in this proceeding, WNH agrees to adjust its 2015 rate base and test year capital plan to reflect the following changes:

- WNH agrees to remove MS3 from the 2016 opening rate base which amounts to a reduction of the Net Book Value of \$2,112 (Cost \$22,648, Accumulated Depreciation \$20,536 = \$2,112 Net Book Value) to reflect the fact that MS3 was taken out of service before January 1, 2016 as described in 1-EP-5 and JTC1.1.;
- WNH agrees to remove MS1 from 2016 closing rate base which amounts to a reduction of the Net Book Value of \$26,562 (Cost \$50,783, Accumulated Depreciation \$24,221 = \$26,562 Net Book Value) to reflect the fact that MS1 is forecast to be taken out of service by December 31, 2016 as described in 1-EP-5 and JTC1.1.;
- Recognizing the Board intends to address the method for accounting of OPEBs in rates as part of a generic policy process, WNH agrees to increase its test year capital expenditures by \$86,000 to account for the capitalization of the cash amount to reflect the recovery of OPEBs on a cash, rather than an accrual, basis,<sup>1</sup> subject to the approval of a new variance account as described further in the settlement of issue 4.2 below to record the difference in rates between these two methodologies pending the Board's final determination on the generic policy issue;
- A reduction of \$500,000 to in capital additions for the test year. This will allow for a steadier pacing of capital expenditures and an incentive for WNH to increase its productivity for its capital program. WNH proposes to achieve this reduction

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<sup>1</sup> All of the Parties recognize that the Board intends to hold a generic policy discussion on this matter, and that nothing in this settlement is intended to limit the positions any of the Parties may take in that more general policy discussion.

in capital additions, in part, by deferring some of the projects originally planned for the test year in a manner largely consistent with the prioritization process described in the Distribution System Plan (Exhibit 2, Appendix 2-A).

With the above adjustments, and for the purposes of settlement of all the issues in this proceeding, the Parties accept that the level of planned capital expenditures and the rationale for planning and pacing choices are appropriate and adequately explained, giving due consideration to:

- The customer feedback and preferences as more fully detailed in Exhibit 1 at Section 2.4.3 pp 76-108, Attachment 1-6, Attachment 1-7 and Attachment 1-8;
- The past and planned productivity initiatives of WNH as more fully detailed in Exhibit 1 at Section 2.4.1 pp 11-19 and Section 2.4.1.1, and Section 2.4.1.2.
- WNH's benchmarking performance as more fully detailed in Exhibit 1 at Section 2.4.1, Section 2.4.3, Attachment 1-14 and in the Board's 2014 scorecard which was filed on September 2, 2015;
- WNH's past reliability and service quality performance as well as WNH's targets for performance in the test year as more fully detailed in Interrogatory 1-Staff-3;
- The total impact on distribution rates, as more fully detailed in Appendix D of this Settlement Proposal;
- The settlement on OM&A as described under issue 1.2 of this Settlement Proposal;
- WNH's performance meeting government mandated obligations as more fully detailed in Exhibit 1 at Section 2.4.1.2, Section 2.4.3 and Attachment 1-14; and
- WNH's targets and objectives as more fully detailed in Exhibit 1 at Section 2.4.1.2, Section 2.4.2 and Attachment 1-1, and Exhibit 2 at Attachment 2-1.

The Parties further agree that the Distribution System Plan filed in this proceeding, combined with the resources made available to WNH in the Test Year under the terms of this Settlement Proposal, provide a foundation to WNH in the Test Year to continue to: (a) pursue continuous improvement in productivity; (b) maintain system reliability and service quality objectives; and (c) maintain reliable and safe operation of its distribution system.

Appendix B of this Settlement Proposal provides updated Appendix 2-AB to reflect this settlement. Appendix C of this Settlement Proposal provides an updated 2016 Fixed Asset Continuity Schedule to reflect this settlement.

Capital Additions as a result of the Settlement are produced below in Table 1.

**Table 1 – Gross Capital Additions Summary**

<b>Capital Additions</b>	<b>Application</b>	<b>IRR - Changes</b>	<b>Settlement Changes</b>	<b>Settlement Proposal</b>
2015 Opening Balance	316,996,025	-	-	316,996,025
2015 Additions	21,308,611	1,530,366	-	22,838,977
2015 Contributed Capital	(4,914,818)	(1,374,120)	-	(6,288,938)
2015 Disposals	(642,135)	-	-	(642,135)
2015 Closing Balance / 2016 Opening Balance	332,747,683	156,246	-	332,903,929
2016 Adjust Opening Balance - MS Disposal	-	-	(22,648)	(22,648)
2016 Additions	19,078,917	4,141,804	(414,000)	22,806,721
2016 Contributed Capital	(2,289,738)	(4,082,571)	-	(6,372,309)
2016 Disposals	(316,071)	-	(50,783)	(366,854)
<b>2016 Closing Balance</b>	<b>349,220,791</b>	<b>215,478</b>	<b>(487,431)</b>	<b>348,948,838</b>

**Evidence:**

*Application:* Exhibit 1 - pages 15-17, 19-20, 21-53, 56, 58-67, 76-108, Attachments 1-7, 1-8, 1-14; Exhibit 2, including Tables 2-5, 2-10, 2-11, 2-17, 2-18, 2-31, 2-38, Attachments 2-1 (DSP), 2-2; Exhibit 4 Tables 4-44, 4-45, 4-51, 4-52, pages 80-99; Exhibit 9 pages 14-24

*IRRs:* 1-Staff-3, 11, 12, 13, 14, 17, 1-Energy Probe-2, 5, 1-SEC-3, 1.0-VECC-1, 2, 4, 6; 2-Staff-19, 21, 25, 26, 29, 30, 31, 36, 39, 40, 41, 42, 43, 45, 46, 48, 49, 50, 51, 54, 55, 56, 57, 58, 60, 64, 66, 68, 69, 70, 72, 73, 74, 75, 78, 79, 80, 81, 82, 83, 85, 87, 88, 89, 90, 91, 92, 2-Energy Probe- 14, 15, 17, 18, 1-E2-5, 2-SEC-7, 8, 9, 11, 13, 18, 20, 21, 22, 28, 29, 31, 35, 36, 2.0-VECC-10, 11, 15, 16

*TC Transcript:* August 19, 2015 TC Transcript at pages 6-7, 10-12, 15-22, 26-46, 48-54, 57-59, 63-67, 69-71, 73, 75-76, 83-84, 89-90

*Undertaking Responses:* JTC1.1, JTC1.2, JTC1.3, JTC1.5, JTC1.6, JTC1.8, JTC1.22

*Appendices to this Settlement Proposal:* Appendix A, Appendix B, Appendix C, Appendix D]

**Supporting Parties:** All

## 1.2 OM&A

*Is the level of planned OM&A expenditures appropriate and is the rationale for planning choices appropriate and adequately explained, giving due consideration to:*

- *customer feedback and preferences;*
- *productivity;*
- *benchmarking of costs;*
- *reliability and service quality;*
- *impact on distribution rates;*
- *trade-offs with capital spending;*
- *government-mandated obligations; and*
- *the objectives of the Applicant and its customers.*

**Complete Settlement:** For the purposes of the settlement of all of the issues in this proceeding, WNH agrees to reduce its proposed OM&A expenses in the test year by \$310,000.

Subject to the creation of a deferral and variance account described below in issue 4.2, the Parties agree to a reduction in OM&A of a further \$262,000 to reflect the adjustment to OPEBs from an accrual to cash basis. \$176,000 will be recorded in a deferral account as discussed in item 4.2 below and \$86,000 is to be recorded in capital in item 1.1 above. Table 2 below provides a reconciliation of OPEBs in OM&A. <sup>2</sup>

**Table 2 – Reconciliation of OPEB Charges in OM&A**

<b>Reconciliation of Changes to OM&amp;A for OPEB</b>	
Amounts included in Application, OM&A	\$ 391,999
Annual Premiums Paid	\$ (215,973)
<b>Cash vs Accrual Difference</b>	<b>\$ 176,026</b>
<b>Moved from OM&amp;A to Deferral Account</b>	<b>\$ 176,000</b>
Annual Premiums Paid	\$ 215,973
<b>Allocate 40% to Capital from OM&amp;A</b>	<b>\$ 86,389</b>
<b>Moved from OM&amp;A to Capital</b>	<b>\$ 86,000</b>

The Parties agree with WNH's overall objectives, and have agreed that the revised OM&A budget will allow WNH to achieve those objectives in the Test Year. Based on the foregoing and the evidence filed by WNH, the Parties agree that the level of planned OM&A expenditures and the rationale for planning and pacing choices are appropriate and adequately explained, giving due consideration to:

<sup>2</sup> All of the Parties recognize that the Board intends to hold a generic policy discussion on this matter, and that nothing in this settlement is intended to limit the positions any of the Parties may take in that more general policy discussion.

- The customer feedback and preferences as more fully detailed in Exhibit 1 at Section 2.4.3 pp 76-108, Attachment 1-6, Attachment 1-7 and Attachment 1-8;
- The past and planned productivity initiatives of WNH as more fully detailed in Exhibit 1 at Section 2.4.1 pp 11-19, and Section 2.4.1.1, and Section 2.4.1.2.
- WNH’s benchmarking performance as more fully detailed in Exhibit 1 at Section 2.4.1, Section 2.4.3, Attachment 1-14 and the Board’s 2014 scorecard which was filed on September 2, 2015;
- WNH’s past reliability and service quality performance as well as WNH’s targets for performance in the test year as more fully detailed in Interrogatory 1-Staff-3;
- The total impact on distribution rates, as more fully detailed in Appendix D of this Settlement Proposal;
- The changes in capital spending as described under issue 1.1 of this Settlement Proposal;
- WNH’s performance meeting government mandated obligations as more fully detailed in Exhibit 1 at Section 2.4.1.2, Section 2.4.3 and Attachment 1-14; and
- WNH’s targets and objectives as more fully detailed in Exhibit 1 at Section 2.4.1.2, Section 2.4.2 and Attachment 1-1, and Exhibit 2 at Attachment 2-1.

WHN has considered possible adjustments to its budget on a preliminary basis and has provided, in Settlement Table 2: a revised OM&A budget based on the proposed total amount. The breakdown of the budget into categories is not intended by the Parties to be in any way a deviation from the normal rule that, once the budget is established, it is up to management to determine through the year how best to spend that budget given the actual circumstances and priorities of the company throughout the test year.

Changes to OM&A are reproduced below as Table 3.

**Table 3 – OM&A**

OM&A	Application	IRR - Changes	Settlement Changes	Settlement Proposal
Operations	5,799,381		(110,000)	5,689,381
Maintenance	1,613,140			1,613,140
Billing & Collecting	2,902,731		(100,000)	2,802,731
Community Relations	142,200			142,200
Administrative & General	3,221,882	10,000	(362,000)	2,869,882
LEAP	42,000			42,000
<b>Total OM&amp;A</b>	<b>13,721,334</b>	<b>10,000</b>	<b>(572,000)</b>	<b>13,159,334</b>

Finally, for the purposes of settlement of the issues in this proceeding, WNH agrees to, prior to its next rebasing application, undertake a review of executive compensation incentive plans with its board of directors to evaluate the potential for more objective measures, and to identify potential opportunities for even better alignment with the Board's RRFE outcomes and the metrics of the DSP.

**Evidence:**

*Application:* Exhibit 1 pages 15-18, 19, 21-53, 55-56, 67-69, 76-108, Attachments 1-7, 1-8, 1-14; Exhibit 2 Tables 2-2, 2-24, Attachment 2-1 DSP including Appendix C, D; Exhibit 4 including Tables 4-1, 4-6, 4-6A

*IRRs:* 1-Staff-6, 11, 14, 17, 1-Energy Probe-2, 8, 1-SEC-3, 1.0-VECC-2, 3; 2-Staff-21, 26, 46, 2-SEC-18, 30, 38; 4-Staff-113, 114, 115, 116, 118, 119, 120, 121, 122, 123, 124, 126, 130, 131, 4-Energy Probe-30, 31, 33, 34, 35, 36, 39, 4-SEC-39, 41, 42, 45, 46, 4.0-VECC-26, 27, 28, 30, 31, 32, 33, 34, 36, 37, 39

*TC Transcript:* August 19, 2015 TC Transcript at pages 9-14, 48-49, 73-75, 85-86, 98,-120, 122-127

*Undertaking Responses:* JTC1.4, JTC1.15, JTC1.16, JTC1.17, JTC1.18, JTC1.19, JTC1.22

*Appendices to this Settlement Proposal:* Appendix A, Appendix D

**Supporting Parties:** All



## 2. Revenue Requirement

2.1 Are all elements of the Base Revenue Requirement reasonable, and have they been appropriately determined in accordance with OEB policies and practices?

**Complete Settlement:** The Parties agree that all elements of the Base Revenue Requirement have been correctly determined in accordance with Board policies and practices. Specifically:

- a) *Rate Base:* Based on the adjustment to OPEBs described above in issue 1.1, WNH agrees to an increase of \$ 86,000 to its rate base calculation for the test year. WNH further agrees to adjust its rate base calculations to reflect the removal of MS1 and MS3 from service as described in issue 1.1 above. Finally, WNH further agrees to adjust its rate base calculations to reflect a reduction in test year capital additions of \$500,000 as described in issue 1.1 above. For clarity, a summary of the rate base calculation and adjustments has been provided below as Table 4. Subject to this adjustment, and any other adjustments contained herein, the Parties agree that the test year rate base is correct and based on Board policies and practices.

**Table 4 – Rate Base Calculation**

Rate Class / Details	Application (A)	Interrogatories (B)	Variance (C) = (B) - (A)	Settlement (D)	Variance (E) = (D) - (B)
Average Gross Fixed Assets	340,984,237	341,170,099	185,862	340,915,060	(255,040)
Average Accumulated Depreciation	146,617,358	146,624,329	6,972	146,552,361	(71,968)
Average Net Book Value	194,366,880	194,545,770	178,890	194,362,699	(183,071)
Working Capital	177,783,549	187,813,339	10,029,790	190,606,909	2,793,571
Working Capital Allowance (%)	13.0%	7.5%	-5.5%	7.5%	-
Working Capital Allowance (\$)	23,111,861	14,086,000	(9,025,861)	14,295,518	209,518
<b>Rate Base</b>	<b>217,478,741</b>	<b>208,631,771</b>	<b>(8,846,971)</b>	<b>208,658,217</b>	<b>26,446</b>

- b) *Working Capital:* The Parties agree that the working capital calculations, as updated by this Settlement Proposal, are reasonable and have been appropriately determined in accordance with OEB policies and practices.
- c) *Cost of Capital:* For the purposes of settlement of the issues in this proceeding, WNH agrees to adjust the debt rate applicable to the forecasted long-term debt of \$7,200,000 expected to be issued in June, 2016 to 3.43%, which is reflective of the best information available at the time of the settlement negotiations. Subject to this adjustment, the Parties agree that the proposed capital structure, rate of return on equity and short and long-term debt costs are determined in accordance with Board policy. All the Parties agree that the cost of capital calculation must be adjusted to reflect the updated cost of capital parameters. This proposal has been updated to reflect the Cost of Capital Parameter Updates issued by the Board on October 15, 2015 for applications with rates effective in 2016. Details of the calculation of the Long-Term Debt Rate are provided in Table 5 below.

**Table 5 – Long Term Debt Rate Calculation**

		Year		2016					
Row	Description	Lender	Affiliated or Third-Party Debt?	Fixed or Variable-Rate?	Start Date	Term (years)	Average Principal (\$)	Rate (%) (Note 2)	Interest (\$) (Note 1)
1	Shareholder - Sr Debt	Waterloo North Hydro Holding Company	Affiliated	Fixed	1-Jul-09	On Demand	\$ 17,266,271	4.54%	783,889
2	Shareholder - Jr Debt	Waterloo North Hydro Holding Company	Affiliated	Fixed	1-May-00	On Demand	\$ 16,246,940	4.54%	737,611
4	Banker's Acceptance - Mortgage	CIBC	Third-Party	Fixed	12-Apr-12	25	\$ 22,116,127	3.95%	873,587
5	Banker's Acceptance - Smart Meters	CIBC	Third-Party	Fixed	1-Apr-13	8	\$ 7,159,732	2.98%	213,360
6	Banker's Acceptance - Term Loan 2013	CIBC	Third-Party	Fixed	4-Jul-13	20	\$ 12,776,883	4.434%	566,527
7	Banker's Acceptance - Term Loan 2014	CIBC	Third-Party	Fixed	4-Jun-14	20	\$ 13,542,454	4.035%	546,438
8	Banker's Acceptance - Term Loan 2015	CIBC	Third-Party	Fixed	1-Jun-15	20	\$ 10,000,000	3.43%	343,000
9	Banker's Acceptance - Term Loan 2016	CIBC Part Year 3	Third-Party	Fixed	1-Jun-16	20	\$ 4,200,000	3.43%	144,060
Total							\$ 103,308,406	4.07%	4,208,472

- d) *Other Revenue*: For the purposes of settlement of the issues in this proceeding, WNH agrees to increase its forecast of other revenues by \$40,000, which is reflective of a historic average of other revenue excluding one-time amounts. The Parties agree that this methodology is appropriate.
- e) *Depreciation*: For the purposes of settlement of the issues in this proceeding, WNH agrees to update its depreciation calculations to reflect the following changes:
- a. *Overhead Conductors*: With respect to this asset category, WNH agrees to depreciate overhead conductions over a period of 50 years, which is within the Kinectrics range for this asset category. 2016 Depreciation in Account # 1835 decreased \$70,036 for this change;
  - b. *Communication Towers*: With respect to this asset category, WNH agrees to depreciate this equipment asset over a period of 60 years, which is within the Kinectrics range for this asset category. 2016 Depreciation in Account # 1808 decreased \$3,488 for this change;
  - c. *Disposal of MS # 1*: WNH agrees to remove MS # 1 from Rate Base in 2016 and the associated 2016 depreciation in Account # 1808 of \$747 has also been removed;
  - d. *Reduction of 2016 Rate Base in Issue 1.1 and 2.1(a)*: WNH agrees to remove the 2016 depreciation associated with the reduction of Rate Base of \$500,000 detailed in Issue 1.1 and 2.1(a). 2016 Depreciation was removed in Account # 1835 in the amount of \$2,778 and Account # 1845 in the amount of \$3,571; and
  - e. *Addition of OPEB Capital Portion in Issue 1.2*: WNH agrees to the addition of \$86,000, the capital portion of OPEB premiums paid, the 2016 Depreciation in Account # 1845 in the amount of \$1,229 was added for this item.

Depreciation adjustments are reflected in Table 6 below.

**Table 6 – Depreciation**

Details	USoA	Undertaking	Settlement Agreement	
		JTC1.22 RRWF	Change	Balance
Net Depreciation		8,157,240		8,157,240
<i>Settlement Agreement Changes</i>				
<i>Buildings and Fixtures</i>				
Remove MS # 1 2016 Depreciation	1808		(747)	
Change Tower Useful Life to 60 Years from 50 Years			(3,488)	
<i>Overhead Conductors and Devices</i>				
Change Overhead Conductors/Devices Useful Life to 50 Years from 45 Years	1835		(70,036)	
Allocated 1/2 of \$500k Decrease to USoA 1835 - Change in Depreciation			(2,778)	
<i>Underground Conductors and Devices</i>				
Allocated 1/2 of \$500k Decrease to USoA 1845- Change in Depreciation	1845		(3,571)	
Depreciation on \$86k Increase in OPEB			1,229	(79,391)
<b>Net Depreciation after Changes</b>		<b>8,157,240</b>	<b>(79,391)</b>	<b>8,077,849</b>

Subject to the adjustments above and adjustments to rate base as noted herein, the Parties accept that the WNH depreciation/amortization expenses are appropriate and reflect the useful lives of the assets and the Board’s accounting policies.

- f) *Taxes*: For the purposes of settlement of the issues in this proceeding, and subject to the other adjustments arising in this Settlement Proposal, the parties agree that the proposed level of taxes are accurate. A working Microsoft Excel format of the PILs workform reflecting this Settlement Proposal is provided as part of the supporting material in file named “Waterloo\_2016\_Test\_Year\_Income\_Tax\_PILs\_Workform\_Settlement\_Update CoC\_20151023”.

A revised Appendix 2-W (Bill Impacts) in working Microsoft Excel format reflecting this Settlement Proposal is provided as part of the supporting material in file named “Waterloo\_2016\_Bill Impacts\_Appendix 2-W\_Settlement\_Update CoC\_20151023”.

WNH has made changes to the Revenue Requirement as reproduced below in Table 7 to reflect the Settlement Proposal.

**Table 7 – Revenue Requirement**

Details	Application (A)	Interrogatories (B)	Variance	Settlement (D)	Variance	Settlement Update CoC (F)	Variance
			(C) = (B) - (A)		(E) = (D) - (B)		(G) = (F) - (D)
OM&A Expenses	13,679,334	13,689,334	10,000	13,117,334	(572,000)	13,117,334	-
Donations - LEAP	42,000	42,000	-	42,000	-	42,000	-
Property Taxes	489,734	489,734	-	489,734	-	489,734	-
Amortization Expenses	8,151,672	8,157,240	5,568	8,077,849	(79,392)	8,077,849	-
Regulated Return On Capital	13,427,518	12,881,291	(546,227)	12,789,608	(91,683)	12,568,049	(221,559)
PILs	803,815	740,537	(63,279)	718,460	(22,077)	685,358	(33,101)
Service Revenue Requirement	36,594,073	36,000,135	(593,938)	35,234,984	(765,152)	34,980,324	(254,660)
Less: Revenue Offsets	1,181,606	1,183,596	1,990	1,223,596	40,000	1,223,596	-
Base Revenue Requirement	35,412,467	34,816,540	(595,928)	34,011,388	(805,152)	33,756,728	(254,660)
Revenue at Existing Rates	31,257,951	31,276,093	18,142	31,669,501	393,408	31,669,501	-
Revenue Deficiency	4,154,517	3,540,447	(614,070)	2,341,887	(1,198,559)	2,087,227	(254,660)

**Evidence:**

*Application:* Exhibit 1 pages 53-54, Tables 1-5, 1-16; Exhibit 2, including at Tables 2-1, 2-2, 2-3, 2-24, 2-25; Exhibit 3 pages 38-45, Tables 3-1, 3-37 through 3-43; Exhibit 4; Exhibit 5; Exhibit 6

*IRRs:* 1-Staff-8, 21, 22, 23, 24; 2-Energy Probe-12; 3-Staff-110, 111, 3-Energy Probe-26, 3.0-VECC-25; 4-Staff 128, 129, 4-Energy Probe-40, 41, 42, 43, 44, 45, 4.0-VECC-38; 5-Staff-133, 5-Energy Probe-46, 47, 48, 5-SEC-48, 5.0-VECC-42; 9-Staff-149

*TC Transcript:* August 19, 2015 TC Transcript at pages 92-93, 106-107, 128-129

*Undertaking Responses:* JTC1.10, JTC1.12, JTC1.21, JTC1.22

*Appendices to this Settlement Proposal:* Appendix C, Appendix D

**Supporting Parties: All**

**2.2** Has the Base Revenue Requirement been accurately determined based on these elements?

**Complete Settlement:** For the purposes of settlement of the issues in this proceeding, and subject to the adjustments expressly noted in this Settlement Proposal, the Parties agree that the proposed Base Revenue Requirement has been accurately determined in the Appendices.

In Sheet 10 of the RRWF property taxes have not been included in the OM&A or Taxes/PILs category but it has been included in the total Service Revenue Requirement.

A revised Revenue Requirement Workform in working Microsoft Excel format reflecting this Settlement Proposal is provided as part of the supporting material in file named "Waterloo\_2016\_Revised\_Rev\_Reqt\_Work\_Form\_V6\_Settlement\_Update CoC\_20151023".

**Evidence:**

*Application:* Exhibit 6, including Tables 6-1 through 6-5, Attachment 6-1

*IRRs:* 6-Energy Probe-49, 1-E2-3

*TC Transcript:* N/A

*Undertaking Responses:* JTC1.22

*Appendices to this Settlement Proposal:* N/A

**Supporting Parties:** All

### 3. Load Forecast, Cost Allocation and Rate Design

3.1 Are the proposed load and customer forecast, loss factors, CDM adjustments and resulting billing determinants appropriate, and, to the extent applicable, are they an appropriate reflection of the energy and demand requirements of the applicant's customers?

**Complete Settlement:** For the purposes of the settlement of the issues in this proceeding, WNH agrees to the following adjustments:

- an increase of 148 residential customers and 10 GS>50 customers for the customer forecast;
- an increase in load forecast for the test year resulting in a load forecast of 1540 GWh.
- 2016 annualized savings for LRAMVA purposes is a total of 14,950,000 kWh, allocated in Table 8 below.
- As outlined in Section 4.2 below, for the purposes of settlement of the issues in this proceeding, the Parties agree that the LRAMVA calculations for 2011 to 2014 should be updated to reflect the latest IESO results. As a result, the 2016 annualized savings for LRAMVA of 14,950,000 kWh has been split by rate class in Table 8 to reflect the final 2011 to 2014 OPA CDM Results. Prior to the preparation of this settlement proposal the 14,950,000 kWh was split by rate class to reflect the final 2011 to 2013 OPA CDM Results.

**Table 8 – CDM Savings**

LRAMVA Split kWh 11-14		CDM Savings	
		kWh	kW
Residential	18.7%	2,793,968	
GS < 50 kW	24.7%	3,691,547	
GS >50 kW	42.4%	6,337,140	15,626
Large User	14.2%	2,127,346	3,895
<b>Total</b>	<b>100.0%</b>	<b>14,950,000</b>	

Subject to the adjustments above, the Parties agree that the customer forecast, loss factors, CDM adjustments and the resulting billing determinates are appropriate and are reflective of the energy and demand requirements of the applicant's customers. The adjusted 2016 load forecast is presented below as Table 9:

**Table 9 – Load Forecast**

Rate Class / Details	Application ( A )	Interrogatories ( B )	Variance ( C ) = ( B ) - ( A )	Settlement ( D )	Variance ( E ) = ( D ) - ( B )
<b>Predicted kWh Purchases</b>	1,513,105,368	1,513,105,368	-	1,540,000,000	26,894,632
<b>CDM Purchase Adjustment</b>	(14,562,388)	(14,558,610)	3,778	(15,534,181)	(975,571)
<b>Predicted kWh Purchases after CDM</b>	1,498,542,980	1,498,546,758	3,778	1,524,465,819	25,919,062
<b>Residential</b>					
Customers	49,305	49,305	-	49,453	148
kWh	399,341,268	399,471,640	130,373	408,868,804	9,397,164
<b>General Service &lt; 50 kW</b>					
Customers	5,632	5,632	-	5,642	10
kWh	192,108,795	192,172,348	63,554	196,732,916	4,560,568
<b>General Service &gt; 50 to 4999 kW</b>					
Customers	693	693	-	693	-
kWh	710,364,299	712,810,799	2,446,499	721,724,020	8,913,222
kW	1,746,786	1,752,802	6,016	1,774,720	21,918
<b>Large User</b>					
Customers	1	1	-	1	-
kWh	95,063,906	92,802,320	(2,261,586)	94,944,937	2,142,617
kW	173,581	169,451	(4,130)	173,364	3,912
<b>Direct Market Participant</b>					
Customers	2	2	-	2	-
kWh	6,823,514	6,823,514	-	6,823,514	-
kW	12,620	12,620	-	12,620	-
<b>Street Lights</b>					
Connections	13,828	13,828	-	13,828	-
kWh	7,594,660	7,594,660	-	7,594,660	-
kW	21,115	21,115	-	21,115	-
<b>Unmetered Loads</b>					
Connections	563	563	-	563	-
kWh	3,140,372	3,140,372	-	3,140,372	-
<b>Embedded Distributor</b>					
Customers	1	1	-	1	-
kWh	31,378,863	31,378,863	-	31,378,863	-
kW	71,406	71,406	-	71,406	-
<b>Total</b>					
Customer/Connections	70,025	70,025	-	70,183	158
kWh	1,445,815,676	1,446,194,516	378,840	1,471,208,086	25,013,570
kW from applicable classes	2,025,508	2,027,394	1,886	2,053,224	25,830

Rate Class / Details	Settlement before CDM (A)	Settlement after CDM (B)	CDM Adjustment (C) = (B) - (A)
<b>Predicted kWh Purchases</b>	1,540,000,000	1,524,465,819	(15,534,181)
<b>Residential</b>			
Customers	49,453	49,453	-
kWh	411,670,526	408,868,804	(2,801,722)
<b>General Service &lt; 50 kW</b>			
Customers	5,642	5,642	-
kWh	200,434,708	196,732,916	(3,701,791)
<b>General Service &gt; 50 to 4999 kW</b>			
Customers	693	693	-
kWh	728,078,747	721,724,020	(6,354,726)
kW	1,790,346	1,774,720	(15,626)
<b>Large User</b>			
Customers	1	1	-
kWh	97,078,186	94,944,937	(2,133,250)
kW	177,259	173,364	(3,895)
<b>Direct Market Participant</b>			
Customers	2	2	-
kWh	6,823,514	6,823,514	-
kW	12,620	12,620	-
<b>Street Lights</b>			
Connections	13,828	13,828	-
kWh	7,594,660	7,594,660	-
kW	21,115	21,115	-
<b>Unmetered Loads</b>			
Connections	563	563	-
kWh	3,140,372	3,140,372	-
<b>Embedded Distributor</b>			
Customers	1	1	-
kWh	31,378,863	31,378,863	-
kW	71,406	71,406	-
<b>Total</b>			
Customer/Connections	70,183	70,183	-
kWh	1,486,199,575	1,471,208,086	(14,991,489)
kW from applicable classes	2,072,746	2,053,224	(19,521)

For the purposes of settlement, Parties agreed the manual CDM adjustment would be updated to include the persistence of 2014 programs into 2016 that were outlined in the final 2011 to 2014 OPA CDM Results.

A revised load forecast model in working Microsoft Excel format reflecting this Settlement Proposal is included together with this Settlement Proposal under file named “Waterloo\_2016\_Load Forecast Model\_Settlement\_20150921”.



**Evidence:**

*Application:* Exhibit 1 page 57; Exhibit 3 including pages 2-37, Tables 3-2 through 3-36

*IRRs:* 1-Staff-15; 3-Staff-94, 95, 96, 99, 100, 102, 104, 105, 107, 3-Energy Probe-21, 23, 24, 25, 3.0-VECC-17, 18, 19, 21, 23, 24

*TC Transcript:* August 19, 2015 TC Transcript at pages 88-92, 96-97

*Undertaking Responses:* JTC1.11, JTC1.12, JTC1.13, JTC1.14, JTC1.22

*Appendices to this Settlement Proposal:* N/A

**Supporting Parties:** All

3.2 Are the proposed cost allocation methodology, allocations, and revenue-to-cost ratios appropriate?

**Complete Settlement:** For the purposes of the settlement of the issues in this proceeding, the Parties agree that the base numbers prepared in response to Undertaking JTC1.22 are appropriate.

Subject to the above, the Parties agree that the cost allocation methodology is appropriate and results in revenue-to-cost ratios that are within the Board’s permitted ranges. These revenue-to-cost ratios are reproduced below in Table 10.

**Table 10: Revenue-to-Cost Ratios**

Rate Class	2016 Settlement Cost Allocation Study	2016 Settlement Proposed Ratios
Residential	103.01%	102.98%
GS < 50 kW	102.48%	102.48%
GS >50 to 4999 kW	94.49%	94.49%
Large Use	77.04%	85.00%
Unmetered Scattered Load	190.32%	120.00%
Street Lighting	103.40%	102.98%
Embedded Distributor	67.52%	100.00%

A revised working Microsoft Excel format of the cost allocation model from this Settlement Proposal is provided as part of the supporting material in file named “Waterloo\_2016\_COS\_Cost\_Allocation\_Model\_Settlement\_Update CoC\_20151023”.

On a best effort basis, WNH agrees to provide notice to the University of Waterloo, and specifically to the attention of its Director, Maintenance & Utilities, Rick Zalagenas via email at rszalagenas@uwaterloo.ca and also to its consultant, E2 Energy, specifically to the attention of its CEO, Scott Walker via email at swalker@e2energyinc.com, if WNH believes that a new or existing customer may likely qualify as a (new) Large User customer in its service territory. This notification will be as soon as reasonably possible but no later than when it first begins to bill a customer as a Large User. Currently, WNH does not commence billing a customer as a Large User until such a time as the customer has proven 12 consecutive months of billing data, meeting or exceeding the Large User threshold parameter).

**Evidence:**

*Application:* Exhibit 1 pages 70-72; Exhibit 7 including pages 2-13, Tables 7-1 through 7-8, Attachment 7-1

*IRRs:* 7-Staff-135, 136, 137, 7-Energy Probe-50, 51, 1-E2-1, 1-E2-2, 1-E2-3, 7.0-VECC-44

*TC Transcript:* August 19, 2015 TC Transcript at pages 86-88, 93-95, 130-133

*Undertaking Responses:* JTC1.22, JTC1.23

*Appendices to this Settlement Proposal:* N/A

**Supporting Parties:** All

**3.3** Are the applicant's proposals, including the proposed fixed/variable splits, for rate design appropriate?

**Complete Settlement:** For the purposes of settlement of the issues in this proceeding, WNH has increased the Residential fixed charge to \$19.71. WNH used the fixed charge of \$16.20 based on the current fixed/variable revenue proportions as the starting point for the calculation in Appendix 2-PA since \$16.20 was below the ceiling fixed charge from the cost allocation model of \$19.53. WNH has adjusted the \$16.20 fixed charge to \$19.71 as calculated by the Board's Appendix 2-PA which reflects the first year of a four year transition to a 100% fixed charge. Appendix 2-PA is shown in Table 12 below.

For the purpose of settlement of the issues in this proceeding, the Parties agree to maintain the current 2015 monthly fixed charge for all non-residential rate classes, where the proposed fixed charge is above the Customer Unit Cost per month - Minimum System with PLCC (Peak Load Carrying Capability). This results in the following adjustments:

- General Service < 50 kW fixed charge is reduced to \$31.96, with a corresponding change to the variable charge;
- General Service > 50 kW fixed charge is reduced to \$119.38, with a corresponding change to the variable charge;
- Large Use fixed charge is reduced to \$6,975.72, with a corresponding change to the variable charge;
- Street Lighting fixed charge is reduced to \$0.33, with a corresponding change to the variable charge;

For the purposes of settlement of the issues in this proceeding, WNH has reduced the Unmetered Scattered Load fixed charge to \$10.61. The ceiling fixed charge from the cost allocation model is \$9.41 and the current 2015 fixed charge is \$15.98. WNH has adjusted to the fixed charge based on the current fixed/variable revenue proportions.

Subject to the above, the Parties agree that WNH's proposals, including the proposed fixed/variable splits, for rate design are appropriate. The distribution charges resulting from this Settlement Proposal are produced below as Table 11.

**Table 11: Distribution Charges**

Rate Class	Proposed Monthly Service Charge	Unit of Measure	Proposed Distribution Volumetric Charge
Residential	\$ 19.71	\$/kWh	\$ 0.0154
GS < 50 kW	\$ 31.96	\$/kWh	\$ 0.0159
GS >50 to 4999 kW	\$ 119.38	\$/kW	\$ 5.0649
Large Use	\$ 6,975.72	\$/kW	\$ 4.0196
Unmetered Scattered Load	\$ 10.61	\$/kWh	\$ 0.0132
Street Lighting	\$ 0.33	\$/kW	\$ 9.3754
Embedded Distributor	\$ -	\$/kW	\$ 0.0200

**Table 12 – OEB Appendix 2-PA Residential Service Charge Transition**

**Appendix 2-PA  
 New Rate Design Policy For Residential Customers**

Please complete the following tables.

**A) Data Inputs**

Test Year Billing Determinants for Residential Class	
Customers	49,453
kWh	408,916,548

Proposed Residential Class Specific Revenue Requirement <sup>1</sup>	\$ 17,976,876.42
--	------------------

Residential Base Rates on Current Tariff	
Monthly Fixed Charge (\$)	16.20
Distribution Volumetric Rate (\$/kWh)	0.0205

**B) Current Fixed/Variable Split**

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	16.2	49,453	\$ 9,613,663.20	53.42%
Variable	0.0205	408,916,548	\$ 8,382,789.23	46.58%
<b>TOTAL</b>	-	-	\$ 17,996,452.43	-

**C) Calculating Test Year Base Rates**

Number of Required Rate Design Policy Transition Years <sup>2</sup>	4
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	Test Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$ 9,603,205.74	16.18	\$ 9,601,794.48
Variable	\$ 8,373,670.68	0.0205	\$ 8,382,789.23
<b>TOTAL</b>	\$ 17,976,876.42	-	\$ 17,984,583.71

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Reconciliation @ Adjusted Rates
Fixed	65.06%	\$ 11,696,623.41	19.71	\$ 11,696,623.56
Variable	34.94%	\$ 6,280,253.01	0.0154	\$ 6,297,314.83
<b>TOTAL</b>	-	\$ 17,976,876.42	-	\$ 17,993,938.39

Checks <sup>3</sup>	
Change in Fixed Rate	\$ 3.53
Difference Between Revenues @ Proposed Rates and Class Specific Revenue Requirement	\$ 17,061.97
	0.09%

The reconciliation of revenue reflecting the rate design from this Settlement Proposal is provided in Table 13 below.

**Table 13 – Revenue Reconciliation**

Rate Class	Customers/ Connections	Number of Customers/Connections			Test Year Consumption		Proposed Rates			Revenues at Proposed Rates	Class Specific Revenue Requirement	Transformer Allowance Credit	Total	Difference
		Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volumetric						
								kWh	kW					
Residential	Customers	49,005	49,901	49,453	408,868,804		\$ 19.71	\$ 0.0154		\$ 17,993,203	\$ 17,976,876		\$17,976,876	-\$ 16,327
GS < 50 kW	Customers	5,615	5,669	5,642	196,732,916		\$ 31.96	\$ 0.0159		\$ 5,291,873	\$ 5,225,595	\$ 74,612	\$ 5,300,207	\$ 8,333
GS > 50 kW	Customers	695	695	695		1,787,340	\$ 119.38		\$ 5.0649	\$ 10,048,330	\$ 9,406,347	\$ 641,990	\$10,048,337	\$ 7
Large User	Customers	1	1	1		173,364	\$ 6,975.72		\$ 4.0196	\$ 780,561	\$ 780,567		\$ 780,567	\$ 7
Unmetered Scattered Load	Connections	552	574	563	3,140,372		\$ 10.61	\$ 0.0132		\$ 113,134	\$ 113,196		\$ 113,196	\$ 62
Streetlighting	Connections	13,818	13,838	13,828			\$ 0.33		\$ 9.3754	\$ 252,717	\$ 252,717		\$ 252,717	\$ 0
Embedded Distributor Class	Customers	1	1	1		71,406	\$ -		\$ 0.0200	\$ 1,428	\$ 1,430		\$ 1,430	\$ 2
<b>Total</b>										<b>\$ 34,481,246</b>	<b>\$ 33,756,728</b>	<b>\$ 716,602</b>	<b>\$34,473,330</b>	<b>-\$ 7,916</b>

**Evidence:**

*Application:* Exhibit 1 pages 70, 72; Exhibit 8 including Tables 8-1 through 8-7 and Table 8-11 through 8-14, Attachments 8-2 through 8-4

*IRRs:* 1-Energy Probe-7; 8-Staff-138, 8-Energy Probe-52, 53, 8.0-VECC-46

*TC Transcript:* N/A

*Undertaking Responses:* JTC1.9, JTC1.22, JTC1.24, JTC1.25

*Appendices to this Settlement Proposal:* N/A

**Supporting Parties:** All

**3.4** Are the proposed Retail Transmission Service Rates and Low Voltage service rates appropriate?

**Complete Settlement:** For the purposes of the settlement of the issues in this proceeding, the Parties agree that the proposed forecast of other regulated rates and charges including the proposed Retail Transmission Service Rates and Low Voltage service rates are appropriate. Retail Transmission Service Rates and Low Voltage service rates have been reproduced below as Tables 14 and 15, respectively.

**Table 14: Retail Transmission Service Rates**

Rate Class	Unit of Measure	Proposed RTSR - Network	Proposed RTSR - Connection
Residential	\$/kWh	\$ 0.0074	\$ 0.0023
General Service < 50 kW	\$/kWh	\$ 0.0067	\$ 0.0021
General Service 50 To 4,999 KW (less than 1,000 kW)	\$/kW	\$ 2.7741	\$ 0.8036
General Service 50 To 4,999 KW (Interval Metered less than 1,000 kW)	\$/kW	\$ 2.9465	\$ 1.0037
General Service 50 To 4,999 KW (Interval Metered 1,000 to 4,999 kW)	\$/kW	\$ 2.9427	\$ 1.0026
Large Use	\$/kW	\$ 3.2624	\$ 1.0072
Unmetered Scattered Load	\$/kWh	\$ 0.0067	\$ 0.0021
Street Lighting	\$/kW	\$ 2.0924	\$ 0.6210

**Table 15: Low Voltage service rates**

Rate Class	Unit of Measure	Proposed Low Voltage Charges
Residential	\$/kWh	\$ 0.0002
GS < 50 kW	\$/kWh	\$ 0.0002
GS > 50 kW	\$/kW	\$ 0.0738
Large Use	\$/kW	\$ 0.0925
Unmetered Scattered Load	\$/kWh	\$ 0.0002
Street Lighting	\$/kW	\$ 0.0570

**Evidence:**

*Application:* Exhibit 8 including pages 10-11 and 12-14, Tables 8-8, 8-9, 8-10, Attachment 8-1

*IRRs:* N/A

*TC Transcript:*

*Undertaking Responses:* August 19, 2015 TC Transcript at pages 142 - 143

*Appendices to this Settlement Proposal:* N/A

**Supporting Parties:** All

#### 4. Accounting

- 4.1 Have all impacts of any changes in accounting standards, policies, estimates and adjustments been properly identified and recorded, and is the rate-making treatment of each of these impacts appropriate?

**Complete Settlement:** For the purposes of the settlement of the issues in this proceeding, and subject to the adjustment in the depreciation calculations noted in the settlement of issue 2.1 above, the Parties agree that the impacts of any changes in accounting standards, policies, estimates and adjustments have been properly identified, and the treatment of each of these impacts is appropriate.

An updated EDDVAR Continuity Schedule is provided in working Microsoft Excel format reflecting this Settlement Proposal provided under file named "Waterloo\_2016\_COS\_2015\_EDDVAR\_Continuity Schedule\_Settlement\_Update CoC\_20151023". This file also includes the calculation of the various riders discussed below.

**Evidence:**

*Application:* Exhibit 1 pages 109 -112; Exhibit 2 pages 3-4, 23-24, 52-56, 79-86; Exhibit 4 pages 80-99; Exhibit 9 pages 9-24

*IRRs:* N/A

*TC Transcript:* N/A

*Undertaking Responses:* JTC1.22

*Appendices to this Settlement Proposal:* N/A

**Supporting Parties:** All



**4.2** Are the applicant's proposals for deferral and variance accounts, including the balances in the existing accounts and their disposition, and the continuation of existing accounts, appropriate?

**Complete Settlement:** For the purposes of the settlement of the issues in this proceeding, the Parties agree to the following:

- i) The disposition of the balance and the discontinuance of the Other Regulatory Asset – Sub-Account – Other Capital Gain Variance – 2011 COS Settlement Agreement Item Account 1508 related to the Administration Building and Service Centre on Northfield Drive in Waterloo, as was created in EB-2010-0144, is appropriate as further described in Exhibit 9;
- ii) The disposition of the balance and the discontinuance of the Other Regulatory Asset – Sub-Account – Other OMERS Difference – 2011 COS Settlement Agreement Item Account 1508 related to the difference in actual OMERS costs to the amounts included in rates, as was created in EB-2010-0144, is appropriate as further described in Exhibit 9;
- iii) The disposition of the balance of Account 1576 as described in issue 4.1 above is appropriate, as further described in as further described in Exhibit 9 9.0-VECC-47. The Weighted Average Cost of Capital will be adjusted when the Board updated rates are published, as discussed in item 2.1 (c) above. This proposal has updated Account 1576 to reflect the updated Weighted Average Cost of Capital, based on the Cost of Capital Parameter Updates issued by the Board on October 15, 2015 for applications with rates effective in 2016. A revised OEB Appendix 2-EC, Account 1576, is reflected in Appendix E of this Settlement Proposal;
- iv) The disposition of the balance and the discontinuance of the Other Regulatory Asset – Sub-Account – 1508 - Deferred IFRS Transition Costs is appropriate as further described in Exhibit 9;
- v) The disposition of the balance and the discontinuance of the PILs and Tax Variances for 2006 and Subsequent Years, including the Sub-Account – 1592 , is appropriate as further described in Exhibit 9;
- vi) The disposition of the balance and the discontinuance of the Smart Meter Capital and Recovery Offset Variance –Sub Account – Stranded Meter Costs - 1555 , is appropriate as further described in Exhibit 9;
- vii) The disposition of the balance and the discontinuance of the Disposition and Recovery/Refund of Regulatory Balances (2010 – 2013) - 1595, is appropriate as further described in Exhibit 9;

- viii) The creation of a variance account 1508 Other Regulatory Assets - Sub-account Wireless and Wireline to record two items: 1) the net (less any related costs) incremental revenues received from any wireless attachments during the IRM period; and 2) any changes in revenue received due to any change in the currently regulated wireline attachment rate of \$22.35 per attachment per pole per year. For clarity, the latter is a symmetrical account that reflects changes to the rate rather than change in number of wireline attachments. Any balance in this variance account is to be cleared in WNH's next Cost of Service Application. A draft accounting order for this account is attached as Appendix F to this Settlement Proposal;
- ix) The creation of a variance account 1508 Other Regulatory Asset - Sub-account Gains/Losses on Disposition of Municipal Stations, to capture net gains and losses on disposition of various Municipal Station properties inclusive of remediation costs. Upon disposition, the balance of this account will be distributed with 75% to ratepayers and 25% to WNH. For clarity, this account is not symmetrical in that the Parties agree ratepayers will not owe a credit to WNH if this account is in a net loss scenario at the time of disposition. Any applicable balance is to be disposed of in WNH's next Cost of Service Application. A draft accounting order for this account is attached as Appendix G to this Settlement Proposal;
- x) WNH is to establish a new variance account 1508 Other Regulatory Asset Sub-account OPEB for the purpose of recording the difference in revenue requirement each year, starting in the test year, between both the capitalized and OM&A components of OPEBs accounted for using a cost basis (as to be reflected in rates if this settlement is accepted by the Board) and both capitalized and OM&A components of OPEBs accounted for using an accrual basis together with related PILs adjustments. This account will accrue interest until final disposition. If the Board determines that LDCs must only include in rates OPEBs accounted for using a cash basis, WNH will seek to discontinue this account without seeking disposition of the amounts recorded in this account. If the Board determines that LDCs may recover OPEBs in rates using an accrual accounting methodology, the Parties agree that WNH will be permitted to seek disposition of this account to recover the amounts so recorded in its rate application following the Board's Decision. WNH will propose a disposition period over which the account should be recovered depending on the quantum in the account and the potential rate impacts at the time. A draft accounting order for this account is attached as Appendix H to this Settlement Proposal.; and
- xi) The disposition of the balance of Account the remaining deferral and variance accounts are reflected in EDDVAR Model which is attached to this Settlement Proposal as "Waterloo\_2016\_COS\_2015\_EDDVAR\_ContinuitySchedule\_Settlement\_Update CoC\_20151023".

WNH notes that it has now received verified final results from the IESO for 2014 CDM. This report is attached as Appendix I in this Settlement Proposal.

For the purposes of settlement of the issues in this proceeding, the Parties agree that the LRAMVA calculations for 2011 to 2014 should be updated to reflect the latest IESO results. In addition, the Parties agree that WNH is now entitled to seek disposition of 2014 LRAMVA amounts and for the purposes of settlement of the issues in this proceeding, the Parties agree that it would be appropriate for WNH to do so now. An update of the LRAMVA numbers for 2011 to 2014 is shown in Tables 16 – 18 below.

**Table 16 - Summary of Requested LRAM Amounts**

LRAM Rate Rider	LRAMVA	CDM \$ in 2011 COS	Net LRAMVA	Interest	Total LRAMVA Claim	2016 Proposed Billing Determinant	UOM	LRAMVA Rider
Residential	229,389	163,011	66,378	2,003	68,381	408,916,548	kWh	\$ 0.0002
General Service Less Than 50 kW	225,354	55,489	169,865	5,126	174,991	196,359,585	kWh	\$ 0.0009
General Service 50 to 4,999 kW	548,117	108,485	439,632	13,266	452,898	1,788,910	kW	\$ 0.2532
Large User	44,212	10,161	34,051	1,027	35,078	172,792	kW	\$ 0.2030
<b>Total</b>	<b>1,047,072</b>	<b>337,146</b>	<b>709,926</b>	<b>21,422</b>	<b>731,348</b>			

**Table 17 - Allocation of OPA Results**

LRAMVA Calculation for 2011 to 2014 final results of OPA Program									
Net kWh saved from OPA program									
OPA Initiative Name	Program Year	Results Status	Rate Class	Market	2011 kWh Saved	2012 kWh Saved	2013 kWh Saved	2014 kWh Saved	Total kWh Saved
Appliance Retirement	2011	Final	Residential	Consumer	180,566	180,566	180,566	180,463	722,161
Appliance Exchange	2011	Final	Residential	Consumer	3,051	3,051	3,051	1,895	11,046
HVAC Incentives	2011	Final	Residential	Consumer	650,749	650,749	650,749	650,749	2,602,995
Conservation Instant Coupon Booklet	2011	Final	Residential	Consumer	189,312	189,312	189,312	189,312	757,248
Bi-Annual Retailer Event	2011	Final	Residential	Consumer	316,302	316,302	316,302	316,302	1,265,210
Equipment Replacement Incentive Initiative	2011	Final	<50 kW - 12%	Business	172,665	172,665	172,665	172,665	690,658
			>50 kW - 88%	Business	1,260,457	1,260,457	1,260,457	1,260,457	5,041,828
Direct Install Lighting	2011	Final	<50 kW	Business	635,841	635,841	635,841	419,046	2,326,569
Energy Audit	2011	Final	<50 kW	Business	79,195	79,195	79,195	79,195	316,780
Demand Response 3	2011	Final	>50 kW	Business	4,323	-	-	-	4,323
Equipment Replacement Incentive Initiative	2011	Final	>50 kW	Industrial	1,128,878	1,128,878	1,128,878	1,128,878	4,515,511
Demand Response 3	2011	Final	>50 kW	Industrial	23,003	-	-	-	23,003
Electricity Retrofit Incentive Program	2011	Final	<50 kW	Business	913,663	913,663	913,663	913,663	3,654,650
High Performance New Construction	2011	Final	>50 kW	Business	346,664	346,664	346,664	346,664	1,386,657
Appliance Retirement	2012	Final	Residential	Consumer	-	99,292	99,292	99,292	297,876
Appliance Exchange	2012	Final	Residential	Consumer	-	18,832	18,832	18,832	56,496
HVAC Incentives	2012	Final	Residential	Consumer	-	450,936	450,936	450,936	1,352,808
Conservation Instant Coupon Booklet	2012	Final	Residential	Consumer	-	14,008	14,008	14,008	42,025
Bi-Annual Retailer Event	2012	Final	Residential	Consumer	-	268,321	268,321	268,321	804,962
			<50 kW - 6.2%	Business	-	336,278	336,278	330,681	1,003,237
			>50 kW - 37.4%	Business	-	2,034,971	2,034,971	2,001,102	6,071,044
Retrofit	2012	Final	Large Use - 56.4%	Business	-	3,062,531	3,062,531	3,011,560	9,136,621
Direct Install Lighting	2012	Final	<50 kW	Business	-	307,810	307,810	307,692	923,312
New Construction	2012	Final	>50 kW	Business	-	5,261	5,261	5,261	15,782
Energy Audit	2012	Final	<50 kW	Business	-	208,243	208,243	208,243	624,728
Demand Response 3	2012	Final	>50 kW	Business	-	1,614	-	-	1,614
Demand Response 3	2012	Final	>50 kW	Industrial	-	30,360	-	-	30,360
Home Assistance Program	2012	Final	Residential	Consumer	-	29,893	29,893	29,862	89,649
High Performance New Construction	2012	Final	>50 kW	Business	-	105,383	105,383	105,383	316,150
Appliance Retirement	2013	Final	Residential	Consumer	-	63,885	63,885	63,885	127,770
Appliance Exchange	2013	Final	Residential	Consumer	-	23,275	23,275	23,275	46,549
HVAC Incentives	2013	Final	Residential	Consumer	-	427,746	427,746	427,746	855,492
Conservation Instant Coupon Booklet	2013	Final	Residential	Consumer	-	77,457	77,457	77,457	154,913
Bi-Annual Retailer Event	2013	Final	Residential	Consumer	-	172,122	172,122	172,122	344,243
Residential Demand Response	2013	Final	Residential	Consumer	-	-	652	-	652
			<50 kW - 17.4%	Business	-	-	645,460	643,144	1,288,604
			>50 kW - 78.9%	Business	-	-	2,920,048	2,909,570	5,829,618
Retrofit	2013	Final	Large Use - 3.7%	Business	-	-	137,217	136,725	273,942
Direct Install Lighting	2013	Final	<50 kW	Business	-	-	408,878	408,878	817,756
New Construction	2013	Final	>50 kW	Business	-	-	8,839	8,839	17,679
Energy Audit	2013	Final	<50 kW	Business	-	-	1,696,902	1,696,902	3,393,803
Small Commercial Demand Response	2013	Final	<50 kW	Business	-	-	10	-	10
Demand Response 3	2013	Final	>50 kW	Business	-	-	1,504	-	1,504
Energy Manager	2013	Final	>50 kW	Business	-	-	69,300	69,300	138,600
Demand Response 3	2013	Final	>50 kW	Industrial	-	-	30,917	-	30,917
Home Assistance Program	2013	Final	Residential	Consumer	-	-	188,705	187,478	376,183
Appliance Retirement	2014	Final	Residential	Consumer	-	-	-	80,001	80,001
Appliance Exchange	2014	Final	Residential	Consumer	-	-	-	52,460	52,460
HVAC Incentives	2014	Final	Residential	Consumer	-	-	-	544,462	544,462
Conservation Instant Coupon Booklet	2014	Final	Residential	Consumer	-	-	-	515,369	515,369
Bi-Annual Retailer Event	2014	Final	Residential	Consumer	-	-	-	1,231,340	1,231,340
			<50 kW - 11.8%	Business	-	-	-	575,911	575,911
			>50 kW - 87.9%	Business	-	-	-	4,289,821	4,289,821
Retrofit	2014	Final	Large Use - .3%	Business	-	-	-	15,620	15,620
Direct Install Lighting	2014	Final	<50 kW	Business	-	-	-	349,433	349,433
New Construction	2014	Final	>50 kW	Business	-	-	-	147,947	147,947
Energy Audit	2014	Final	<50 kW	Business	-	-	-	391,641	391,641
Energy Manager	2014	Final	>50 kW	Business	-	-	-	91,627	91,627
Home Assistance Program	2014	Final	Residential	Consumer	-	-	-	48,046	48,046
Program Enabled Savings	2014	Final	>50 kW	Business	-	-	-	125,622	125,622
					-	-	-	-	-
					-	-	-	-	-
					-	-	-	-	-
<b>Total</b>					<b>5,904,668</b>	<b>12,851,074</b>	<b>19,692,018</b>	<b>27,795,080</b>	<b>66,242,840</b>
<b>Rate Class Allocation (kWh)</b>					<b>2011 kWh Saved</b>	<b>2012 kWh Saved</b>	<b>2013 kWh Saved</b>	<b>2014 kWh Saved</b>	<b>Total kWh Saved</b>
<b>Residential</b>					<b>1,339,980</b>	<b>2,221,262</b>	<b>3,175,104</b>	<b>5,643,612</b>	<b>12,379,958</b>
<b>General Service &lt; 50 kW</b>					<b>1,801,363</b>	<b>2,653,693</b>	<b>5,404,943</b>	<b>6,497,092</b>	<b>16,357,092</b>
<b>General Service 50 to 4.999 kW</b>					<b>2,763,326</b>	<b>4,913,588</b>	<b>7,912,223</b>	<b>12,490,471</b>	<b>28,079,607</b>
<b>Large Use</b>					<b>-</b>	<b>3,062,531</b>	<b>3,199,748</b>	<b>3,163,905</b>	<b>9,426,183</b>
<b>Total</b>					<b>5,904,668</b>	<b>12,851,074</b>	<b>19,692,018</b>	<b>27,795,080</b>	<b>66,242,840</b>

Waterloo North Hydro Inc.  
EB-2015-0108  
Settlement Proposal

Net KW saved from OPA program										
OPA Initiative Name	Program Year	Results Status	Rate Class	Market	2011 kW Saved	2012 kW Saved	2013 kW Saved	2014 kW Saved	Total kW Saved	
Appliance Retirement	2011	Final	Residential	Consumer	24.31	24.3	24.3	24.20	97.1	
Appliance Exchange	2011	Final	Residential	Consumer	2.36	2.4	2.4	1.06	8.1	
HVAC Incentives	2011	Final	Residential	Consumer	349.92	349.9	349.9	349.92	1,399.7	
Conservation Instant Coupon Booklet	2011	Final	Residential	Consumer	11.66	11.7	11.7	11.66	46.6	
Bi-Annual Retailer Event	2011	Final	Residential	Consumer	17.93	17.9	17.9	17.93	71.7	
Residential Demand Response	2011	Final	Residential	Consumer	72.24	-	-	-	72.2	
Equipment Replacement Incentive Initiative	2011	Final	<50 kW - 16% >50 kW - 84%	Business	41.17	41.2	41.2	41.17	164.7	
Direct Install Lighting	2011	Final	<50 kW	Business	221.42	221.4	221.4	221.42	885.7	
Energy Audit	2011	Final	<50 kW	Business	256.29	256.3	249.11	184.53	946.2	
Commercial Demand Response	2011	Final	<50 kW	Business	16.27	16.27	16.27	16.27	65.1	
Demand Response 3	2011	Final	>50 kW	Business	5.12	-	-	-	5.1	
Equipment Replacement Incentive Initiative	2011	Final	>50 kW	Business	110.39	-	-	-	110.4	
Demand Response 3	2011	Final	>50 kW	Industrial	179.85	179.9	179.9	179.85	719.4	
Electricity Retrofit Incentive Program	2011	Final	>50 kW	Industrial	391.88	-	-	-	391.9	
High Performance New Construction	2011	Final	<50 kW	Consumer, Business	180.79	180.8	180.8	180.79	723.2	
Appliance Retirement	2011	Final	>50 kW	Business	187.08	187.1	187.1	187.08	748.3	
Appliance Retirement	2012	Final	Residential	Consumer		14.45	14.45	14.45	43.4	
Appliance Exchange	2012	Final	Residential	Consumer		10.78	10.78	10.78	32.4	
HVAC Incentives	2012	Final	Residential	Consumer		261.32	261.32	261.32	784.0	
Conservation Instant Coupon Booklet	2012	Final	Residential	Consumer		2.31	2.31	2.31	6.9	
Bi-Annual Retailer Event	2012	Final	Residential	Consumer		14.83	14.83	14.83	44.5	
Retrofit	2012	Final	<50 kW - 9.8% >50 kW - 50.2% Large Use - 40.0%	Business		87.98	86.95	86.28	261.2	
Direct Install Lighting	2012	Final	>50 kW	Business		451.75	446.43	443.00	1,341.2	
New Construction	2012	Final	<50 kW	Business		360.74	356.49	353.75	1,071.0	
Energy Audit	2012	Final	>50 kW	Business		82.23	82.23	82.21	246.7	
Demand Response 3	2012	Final	>50 kW	Business		4.66	4.66	4.66	14.0	
Demand Response 3	2012	Final	<50 kW	Business		42.80	42.80	42.80	128.4	
Demand Response 3	2012	Final	>50 kW	Business		111.06	-	-	111.1	
Demand Response 3	2012	Final	>50 kW	Industrial		1,259.75	-	-	1,259.8	
Home Assistance Program	2012	Final	Residential	Consumer		2.81	2.81	2.81	8.4	
High Performance New Construction	2012	Final	>50 kW	Business		21.44	21.44	21.44	64.3	
Appliance Retirement	2013	Final	Residential	Consumer			9.67	9.67	19.3	
Appliance Exchange	2013	Final	Residential	Consumer			13.05	13.05	26.1	
HVAC Incentives	2013	Final	Residential	Consumer			251.03	251.03	502.1	
Conservation Instant Coupon Booklet	2013	Final	Residential	Consumer			5.18	5.18	10.4	
Bi-Annual Retailer Event	2013	Final	Residential	Consumer			11.86	11.86	23.7	
Residential Demand Response	2013	Final	Residential	Consumer			195.75		195.7	
Retrofit	2013	Final	<50 kW - 22.4% >50 kW - 73.5% Large Use - 4.1%	Business			167.10	166.25	333.4	
Direct Install Lighting	2013	Final	>50 kW	Business			546.97	544.19	1,091.2	
New Construction	2013	Final	<50 kW	Business			30.79	30.64	61.4	
Energy Audit	2013	Final	<50 kW	Business			114.01	114.01	228.0	
Small Commercial Demand Response	2013	Final	<50 kW	Business			20.65	20.65	41.3	
Demand Response 3	2013	Final	<50 kW	Business			308.65	308.65	617.3	
Demand Response 3	2013	Final	>50 kW	Business			6.40		6.4	
Energy Manager	2013	Final	>50 kW	Business			112.64		112.6	
Demand Response 3	2013	Final	>50 kW	Business			33.09	33.09	66.2	
Demand Response 3	2013	Final	>50 kW	Industrial			1,150.81		1,150.8	
Home Assistance Program	2013	Final	Residential	Consumer			13.89	13.83	27.7	
Appliance Retirement	2014	Final	Residential	Consumer				12.2	12.2	
Appliance Exchange	2014	Final	Residential	Consumer				29.4	29.4	
HVAC Incentives	2014	Final	Residential	Consumer				296.2	296.2	
Conservation Instant Coupon Booklet	2014	Final	Residential	Consumer				42.3	42.3	
Bi-Annual Retailer Event	2014	Final	Residential	Consumer				80.6	80.6	
Residential Demand Response	2014	Final	Residential	Consumer				365.2	365.2	
Retrofit	2014	Final	<50 kW - 13.5% >50 kW - 86.3% Large Use - 2%	Business				108.5	108.5	
Direct Install Lighting	2014	Final	>50 kW	Business				695.4	695.4	
New Construction	2014	Final	<50 kW	Business				1.5	1.5	
Energy Audit	2014	Final	<50 kW	Business				94.3	94.3	
Small Commercial Demand Response	2014	Final	>50 kW	Business				30.3	30.3	
Demand Response 3	2014	Final	<50 kW	Business				80.2	80.2	
Energy Manager	2014	Final	<50 kW	Business				8.4	8.4	
Demand Response 3	2014	Final	>50 kW	Business				104.2	104.2	
Energy Manager	2014	Final	>50 kW	Business				23.5	23.5	
Demand Response 3	2014	Final	>50 kW	Industrial				1,081.1	1,081.1	
Home Assistance Program	2014	Final	Residential	Consumer				4.2	4.2	
Program Enabled Savings	2014	Final	>50 kW	Business				88.6	88.6	
Time-of-Use Savings	2014	Final	Residential	Consumer				650.5	650.5	
									-	
									-	
<b>Total</b>					<b>2,068.69</b>	<b>4,217.98</b>	<b>5,820.89</b>	<b>8,075.27</b>	<b>20,182.83</b>	
<b>General Service 50 to 4,999 kW (kW)</b>					<b>1,090.6</b>	<b>2,437.0</b>	<b>2,925.0</b>	<b>3,678.4</b>	<b>10,131.1</b>	
<b>Large Use kW (kW)</b>						<b>360.7</b>	<b>387.3</b>	<b>385.9</b>	<b>1,133.9</b>	

**Table 18 - Calculation of LRAMVA**

Summary Units Lost	2011 kWh Saved	2012 kWh Saved	2013 kWh Saved	2014 kWh Saved	Total kWh Saved
Residential (/kWh)	1,339,980	2,221,262	3,175,104	5,643,612	12,379,958
General Service Less Than 50 kW (/kWh)	1,801,363	2,653,693	5,404,943	6,497,092	16,357,092
General Service 50 to 4,999 kW (/kW)	13,088	29,244	35,100	44,141	121,574
Large Use (/kW)	-	4,329	4,647	4,631	13,607

Rate Class Distribution Volumetric Rates	Eff: Apr 1, 2010	Eff: May 1, 2011	Eff: May 1, 2012	Eff: May 1, 2013	Eff: May 1, 2014
Residential (/kWh)	0.0131	0.0184	0.0186	0.0187	0.0190
General Service Less Than 50 kW (/kWh)	0.0104	0.0137	0.0138	0.0139	0.0141
General Service 50 to 4999 kW (/kW)	3.5420	4.3073	4.4733	4.6141	4.6787
Large User (/kW)	2.6959	3.1991	3.2337	3.2492	3.2947

Rate Class Distribution Volumetric Rates (Annualized)	2011	2012	2013	2014
Residential (/kWh)	0.0166	0.0185	0.0187	0.0189
General Service Less Than 50 kW (/kWh)	0.0126	0.0138	0.0139	0.0140
General Service 50 to 4,999 kW (/kW)	4.0522	4.4180	4.5672	4.6572
Large User	3.0314	3.2222	3.2440	3.2795

LRAM \$	2011	2012	2013	2014	Total
Residential (/kWh)	22,288	41,167	59,269	106,664	229,389
General Service Less Than 50 kW (/kWh)	22,697	36,533	74,949	91,176	225,354
General Service 50 to 4,999 kW (/kW)	53,034	129,200	160,309	205,574	548,117
Large User (/kW)	-	13,948	15,076	15,187	44,212
<b>Total</b>	<b>98,019</b>	<b>220,849</b>	<b>309,602</b>	<b>418,601</b>	<b>1,047,072</b>

CDM in 2011 Forecast	Unit	2011	2012	2013	2014
Residential (/kWh)	kWh	2,241,213	2,241,213	2,241,213	2,241,213
General Service Less Than 50 kW (/kWh)	kWh	1,022,523	1,022,523	1,022,523	1,022,523
General Service 50 to 4,999 kW (/kW)	kW	6,131	6,131	6,131	6,131
Large User (/kW)	kW	795	795	795	795

CDM in 2011 Forecast \$	Unit	2011	2012	2013	2014	Total
Residential (/kWh)	kWh	\$ 37,279	\$ 41,537	\$ 41,836	\$ 42,359	\$ 163,011
General Service Less Than 50 kW (/kWh)	kWh	\$ 12,884	\$ 14,077	\$ 14,179	\$ 14,349	\$ 55,489
General Service 50 to 4,999 kW (/kW)	kW	\$ 24,844	\$ 27,087	\$ 28,001	\$ 28,553	\$ 108,485
Large User (kW)	kW	\$ 2,411	\$ 2,562	\$ 2,580	\$ 2,608	\$ 10,161
<b>Total</b>		<b>\$ 77,417</b>	<b>\$ 85,263</b>	<b>\$ 86,596</b>	<b>\$ 87,869</b>	<b>\$ 337,146</b>

LRAMVA - LRAM \$ vs CDM in 2011 Forecast \$	Unit	2011	2012	2013	2014	Total
Residential (/kWh)	kWh	\$ (14,991)	\$ (370)	\$ 17,433	\$ 64,305	\$ 66,378
General Service Less Than 50 kW (/kWh)	kWh	\$ 9,813	\$ 22,456	\$ 60,770	\$ 76,826	\$ 169,865
General Service 50 to 4,999 kW (/kW)	kW	\$ 28,190	\$ 102,114	\$ 132,308	\$ 177,021	\$ 439,632
Large User (kW)	kW	\$ (2,411)	\$ 11,386	\$ 12,496	\$ 12,579	\$ 34,051
<b>Total</b>		<b>\$ 20,602</b>	<b>\$ 135,586</b>	<b>\$ 223,006</b>	<b>\$ 330,732</b>	<b>\$ 709,926</b>

For the purposes of the settlement of the issues in this proceeding, and subject to the above, the Parties agree that the Applicant's proposals for deferral and variance accounts, including the balances in the existing accounts and their disposition and the continuation of existing accounts, are appropriate.

*Eligible Investments for Connection of Qualifying Generation Facilities to be funded by the IESO*

WNH had one qualifying Expansion Generation Facility connected in 2013, allocated in Table 19 below.

**Table 19 - Calculation of the Direct Benefit / Provincial Portion of Qualifying Expansion Generation Facility**

<b>Expansion Connection Project</b>	<b>\$ 117,320</b>
Direct Benefit - 17%	\$ 19,944
Provincial - 83%	\$ 97,376
<b>Total</b>	<b>\$ 117,320</b>

WNH recorded the total cost of the project in its Rate Base and recorded the IESO revenue to be received, in the amount of \$9,766, as a Revenue Offset.

*IESO Funding for Connection of Qualifying Generation Facilities for Board Approval*

The amount of Eligible Investments for Connection of Qualifying Generation Facilities to be funded by the IESO for which WNH is seeking Board Approval is shown in Table 20 below.

**Table 20 - Schedule of IESO Payments Requesting Approval**

<b>IESO Payments Requesting Board Approval</b>		
<b>Year</b>	<b>Annual</b>	<b>Monthly</b>
2016	\$ 9,766	\$ 814
2017	\$ 9,499	\$ 792
2018	\$ 9,232	\$ 769
2019	\$ 8,965	\$ 747
2020	\$ 8,698	\$ 725

Appendix 2-FA and 2-FC were filed in response to 9-Staff-149 which provides the calculation of this funding request.

The Parties anticipate that the Board will facilitate the compensation payments from the IESO to WNH as per O.Reg. 330/09.

**Evidence:**

*Application:* Exhibit 1 page 73; Exhibit 2 pages 3-4, 23-24, 52-56, 79-86; Exhibit 4 pages 80-99; Exhibit 9

*IRRs:* 2-Staff-25; 4-Staff-131, 4.0-VECC-39, 40, 41; 9-Staff-143, 145, 146, 147, 148, 149, 150, 9-Energy Probe-54, 2-E2-1, 9.0-VECC-47

*TC Transcript:* August 19, 2015 TC Transcript at pages 143-145

*Undertaking Responses:* JTC1.2, JTC1.22

*Appendices to this Settlement Proposal:* Appendix E, Appendix F, Appendix G, Appendix H

**Supporting Parties:** All



**Appendix A – WNH 2016 Tariff Sheet**

Please see below the Proposed 2016 Tariff Sheet, as revised to reflect this Settlement Proposal.

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**

**Effective and Implementation Date January 1, 2016**

**This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors**

**EB-2015-0108**

**RESIDENTIAL SERVICE CLASSIFICATION**

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate 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. All customers are single-phase. 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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	19.71
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Rate Rider for Disposition of Stranded Meter Costs - effective until December 31, 2018	\$	0.58
Distribution Volumetric Rate	\$/kWh	0.0154
Low Voltage Service Rate	\$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0023
Rate Rider for Tax Change (2015) - effective until April 30, 2016	\$/kWh	(0.0001)
Rate Rider for Disposition of Deferral/Variance Accounts (2015) - effective until April 30, 2016	\$/kWh	(0.0014)
Rate Rider for Disposition of Global Adjustment Account (2015) - effective until April 30, 2016 Applicable only for Non RPP Customers	\$/kWh	0.0006
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until December 31, 2016	\$/kWh	0.0016
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until December 31, 2016 Applicable only for Non RPP Customers	\$/kWh	0.0031
Rate rider for Disposition of Accounting Changes Under CGAAP Account 1576 - effective until December 31, 2016	\$/kWh	(0.0016)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2016) - effective until December 31, 2016	\$/kWh	0.0002

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2016**

**This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors**

**EB-2015-0108**

**GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION**

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum 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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	31.96
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Rate Rider for Disposition of Stranded Meter Costs - effective until December 31, 2018	\$	1.38
Distribution Volumetric Rate	\$/kWh	0.0159
Low Voltage Service Rate	\$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0067
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0021
Rate Rider for Tax Change (2015) - effective until April 30, 2016	\$/kWh	(0.00005)
Rate Rider for Disposition of Deferral/Variance Accounts (2015) - effective until April 30, 2016	\$/kWh	(0.0014)
Rate Rider for Disposition of Global Adjustment Account (2015) - effective until April 30, 2016 Applicable only for Non RPP Customers	\$/kWh	0.0006
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until December 31, 2016	\$/kWh	0.0017
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until December 31, 2016 Applicable only for Non RPP Customers	\$/kWh	0.0031
Rate rider for Disposition of Accounting Changes Under CGAAP Account 1576 - effective until December 31, 2016	\$/kWh	(0.0016)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2016) - effective until December 31, 2016	\$/kWh	0.0009

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**

**Effective and Implementation Date January 1, 2016**

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 approved schedules of Rates, Charges and Loss Factors**

**EB-2015-0108**

**GENERAL SERVICE 50 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 greater than, 50 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service. 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 General Service 50 to 999 kW interval metered General Service 1,000 to 4,999 kW interval metered.

**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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	119.38
Distribution Volumetric Rate	\$/kW	5.0649
Low Voltage Service Rate	\$/kW	0.0738
Retail Transmission Rate - Network Service Rate - (less than 1,000 kW)	\$/kW	2.7741
Retail Transmission Rate - Network Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	2.9465
Retail Transmission Rate - Network Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	2.9427
Retail Transmission Rate - Line and Transformation Connection Service Rate - (less than 1,000 kW)	\$/kW	0.8036
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.0037
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered (1,000 to 4,999 kW)	\$/kW	1.0026
Rate Rider for Tax Change (2015) - effective until April 30, 2016	\$/kW	(0.0099)
Rate Rider for Disposition of Deferral/Variance Accounts (2015) - effective until April 30, 2016 Applicable only for Non Wholesale Market Participants	\$/kW	(0.6502)
Rate Rider for Disposition of Deferral/Variance Accounts (2015) - effective until April 30, 2016 Applicable only for Wholesale Market Participants	\$/kW	(0.1945)
Rate Rider for Disposition of Global Adjustment Account (2015) - effective until April 30, 2016 Applicable only for Non RPP Customers	\$/kW	0.2675
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until December 31, 2016 Applicable Only for Non Wholesale Market Participants	\$/kW	0.7720
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until December 31, 2016 Applicable only for Non RPP Customers	\$/kW	1.2659
Rate rider for Disposition of Accounting Changes Under CGAAP Account 1576 - effective until December 31, 2016 Applicable only for Non Wholesale Market Participants	\$/kW	(0.6390)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2016) - effective until December 31, 2016	\$/kW	0.2552
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until December 31, 2016 Applicable Only for Wholesale Market Participants	\$/kW	0.1181
Rate rider for Disposition of Accounting Changes Under CGAAP Account 1576 - effective until December 31, 2016 Applicable only for Wholesale Market Participants	\$/kW	(0.8496)

**GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION**

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**

**Effective and Implementation Date January 1, 2016**

**This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors**

**EB-2015-0108**

**LARGE USE SERVICE CLASSIFICATION**

This classification applies to an account whose average monthly maximum demand used for billing purposes 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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	6,975.72
Distribution Volumetric Rate	\$/kW	4.0196
Low Voltage Service Rate	\$/kW	0.0925
Retail Transmission Rate - Network Service Rate	\$/kW	3.2624
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.0072
Rate Rider for Tax Change (2015) - effective until April 30, 2016	\$/kW	(0.0072)
Rate Rider for Disposition of Deferral/Variance Accounts (2015) - effective until April 30, 2016	\$/kW	(0.7541)
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until December 31, 2016	\$/kW	1.0507
Rate rider for Disposition of Accounting Changes Under CGAAP Account 1576 - effective until December 31, 2016	\$/kW	(0.8606)
Rate Rider for Recovery of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2016) - effective until December 31, 2016	\$/kW	0.2023

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective and Implementation Date January 1, 2016**

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**EB-2015-0108**

**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 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. 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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	10.61
Distribution Volumetric Rate	\$/kWh	0.0132
Low Voltage Service Rate	\$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0067
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0021
Rate Rider for Tax Change (2015) - effective until April 30, 2016	\$/kWh	(0.0002)
Rate Rider for Disposition of Deferral/Variance Accounts (2015) - effective until April 30, 2016	\$/kWh	(0.0015)
Rate Rider for Disposition of Global Adjustment Account (2015) - effective until April 30, 2016 Applicable only for Non RPP Customers	\$/kWh	0.0006
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until December 31, 2016	\$/kWh	0.0016
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until December 31, 2016 Applicable only for Non RPP Customers	\$/kWh	0.0031
Rate rider for Disposition of Accounting Changes Under CGAAP Account 1576 - effective until December 31, 2016	\$/kWh	(0.0016)

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**

**Effective and Implementation Date January 1, 2016**

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**EB-2015-0108**

**STREET LIGHTING SERVICE CLASSIFICATION**

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. 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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	0.33
Distribution Volumetric Rate	\$/kW	9.3754
Low Voltage Service Rate	\$/kW	0.0570
Retail Transmission Rate - Network Service Rate	\$/kW	2.0924
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	0.6210
Rate Rider for Tax Change (2015) - effective until April 30, 2016	\$/kW	(0.0208)
Rate Rider for Disposition of Deferral/Variance Accounts (2015) - effective until April 30, 2016	\$/kW	(0.5199)
Rate Rider for Disposition of Global Adjustment Account (2015) - effective until April 30, 2016 Applicable only for Non RPP Customers	\$/kW	0.2139
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until December 31, 2016	\$/kW	0.7019
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until December 31, 2016 Applicable only for Non RPP Customers	\$/kW	1.1196
Rate rider for Disposition of Accounting Changes Under CGAAP Account 1576 - effective until December 31, 2016	\$/kW	(0.5652)

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25



**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
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**EB-2015-0108**

**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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	5.40
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**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
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**EB-2015-0108**

**EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION**

This classification applies to an electricity distributor licensed by the Board that is provided electricity by means of this distributor's facilities. 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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

**MONTHLY RATES AND CHARGES - Delivery Component**

Distribution Volumetric Rate	\$/kW	0.0200
Rate Rider for Disposition of Deferral/Variance Accounts (2015) - effective until April 30, 2016	\$/kW	(0.5823)
Rate Rider for Disposition of Global Adjustment Account (2015) - effective until April 30, 2016 Applicable only for Non RPP Customers	\$/kW	0.2396
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until December 31, 2016	\$/kW	0.5306
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until December 31, 2016 Applicable only for Non RPP Customers	\$/kW	1.3679

**MONTHLY RATES AND CHARGES - Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0044
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service - Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**

**Effective and Implementation Date January 1, 2016**

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**EB-2015-0108**

**ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing	\$/kW	(0.60)
Primary Metering Allowance for transformer losses – applied to measured demand and energy	\$	(1.00)

**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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 Board approval, such as the Debt Retirement Charge, the Global Adjustment and the HST.

**Customer Administration**

Easement letter	\$	15.00
Notification charge	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque charge (plus bank charges)	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Income tax letter	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if	\$	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
Disconnect/Reconnect at meter - during regular hours	\$	65.00
Disconnect/Reconnect at meter - after regular hours	\$	185.00
Specific Charge for Access to the Power Poles \$/pole/year	\$	22.35

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**

**Effective and Implementation Date January 1, 2016**

**This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors**

**EB-2015-0108**

**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 Board, and amendments thereto as approved by the 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 Board, and amendments thereto as approved by the 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 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.	0.5000
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.3000
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.3000)
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 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	1.0362
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0147
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0259
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0047

**Appendix B – OEB Appendix 2-AB**

Please see below for an updated Appendix 2-AB revised to reflect this Settlement Proposal.

OEB Investment Category	Historical Period										Bridge Year	Forecast Period					Average
	2011		2012		2013		2014		2015		2016	2017	2018	2019	2020	2016 - 2020	
	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Budgeted (2)							
System Access	(1)	\$ 5,616,458	(1)	\$ 7,835,847	(1)	\$ 8,667,885	(1)	\$ 5,625,933	(1)	\$ 11,905,668	\$ 11,171,628	\$ 7,520,910	\$ 6,020,046	\$ 5,946,859	\$ 6,085,796	\$ 7,349,048	
System Renewal	(1)	\$ 9,731,967	(1)	\$ 9,253,544	(1)	\$ 7,569,002	(1)	\$ 9,711,737	(1)	\$ 7,101,086	\$ 7,360,065	\$ 10,001,084	\$ 9,438,200	\$ 8,800,764	\$ 8,975,779	\$ 8,915,178	
System Service	(1)	\$ 1,832,799	(1)	\$ 1,649,794	(1)	\$ 1,573,868	(1)	\$ 2,311,676	(1)	\$ 1,571,473	\$ 2,405,950	\$ 1,680,000	\$ 1,725,200	\$ 1,175,404	\$ 1,175,612	\$ 1,632,433	
General Plant	(1)	\$ 29,572,430	(1)	\$ 3,380,268	(1)	\$ 2,140,562	(1)	\$ 2,044,660	(1)	\$ 2,260,750	\$ 1,869,078	\$ 2,813,765	\$ 1,661,176	\$ 1,670,309	\$ 1,649,525	\$ 1,932,771	
Totals		\$ 46,753,654		\$ 22,119,452		\$ 19,951,316		\$ 19,694,006		\$ 22,838,977	\$ 22,806,721	\$ 22,015,759	\$ 18,844,622	\$ 17,593,336	\$ 17,886,713	\$ 19,829,430	
System Operations		\$ 3,567,713		\$ 4,464,684		\$ 6,122,581		\$ 6,246,577		\$ 6,018,379	\$ 5,689,381						
System Maintenance		\$ 1,287,857		\$ 1,266,289		\$ 1,283,983		\$ 1,845,659		\$ 1,607,062	\$ 1,613,140						
Total O&M		\$ 4,855,570		\$ 5,730,973		\$ 7,406,564		\$ 8,092,236		\$ 7,625,441	\$ 7,302,521						

(1) This is Waterloo North Hydro's first Distribution System Plan and as such planned expenditures are not provided.

(2) due to the timing of the Application there are no actual expenditures available for 2015

## Appendix C – 2016 Fixed Asset Continuity Schedule

Please see below for an updated 2016 Fixed Asset Continuity Schedule to reflect this Settlement Proposal.

Appendix 2-BA  
Fixed Asset Continuity Schedule  
Accounting Standard: MIFRS  
Year: 2016

			Cost				Accumulated Depreciation				
CCA Class	OEB	Description	Opening Balance	Additions	Disposals	Closing Balance	Opening Balance	Additions	Disposals	Closing Balance	Net Book Value
N/A	1805	Land	2,321,684		15,095	2,306,589	0			0	2,306,589
1b	1612	Land Rights	697,180	43,259		740,439	0			0	740,439
1b	1808	Buildings and Fixtures	30,493,333	128,050	35,688	30,585,695	3,962,605	839,579	23,473	4,778,711	25,806,984
13	1810	Leasehold Improvements	0			0	0			0	0
47	1815	Transformer Station Equipment - Normally Primary above	32,702,772	516,518		33,219,290	13,396,067	1,137,573		14,533,640	18,685,650
47	1820	Distribution Station Equipment - Normally Primary below	5,597,083	94,587		5,691,670	3,710,322	137,510		3,847,832	1,843,838
47	1825	Storage Battery Equipment	0			0	0			0	0
47	1830	Poles, Towers and Fixtures	68,420,424	3,611,587		72,032,011	26,053,752	1,176,513		27,230,264	44,801,746
47	1835	Overhead Conductors and Devices	37,985,703	3,319,842		41,305,544	11,439,265	832,160		12,271,425	29,034,120
47	1840	Underground Conduit	19,166,859	1,964,870		21,131,729	8,425,233	280,113		8,705,346	12,426,383
47	1845	Underground Conductors and Devices	44,392,197	5,336,630		49,728,827	20,205,930	1,023,385		21,229,315	28,499,512
47	1850	Line Transformers	57,507,844	4,106,004		61,613,848	24,113,855	1,146,132		25,259,987	36,353,861
47	1855	Services	26,409,533	1,044,553		27,454,086	12,779,915	364,147		13,144,063	14,310,024
8	1860	Meters	13,677,132	644,367		14,321,499	5,172,592	861,031		6,033,622	8,287,877
N/A	1865	Other Installations on Customer's Premises	0			0	0			0	0
N/A	1905	Land	0			0	0			0	0
CEC	1906	Land Rights	0			0	0			0	0
47	1908	Buildings and Fixtures	0			0	0			0	0
13	1910	Leasehold Improvements	0			0	0			0	0
8	1915	Office Furniture and Equipment	1,577,130	7,000		1,584,130	1,016,580	106,957		1,123,536	460,593
45/50	1920	Computer Equipment - Hardware	4,234,789	108,650		4,343,439	3,917,361	132,136		4,049,497	293,943
12/50	1611	Computer Software	6,823,715	871,760		7,695,475	5,793,849	476,948		6,270,797	1,424,678
10	1930	Transportation Equipment	9,126,170	619,409	316,071	9,429,508	5,472,270	589,154	305,084	5,756,340	3,673,169
8	1935	Stores Equipment	542,506			542,506	334,631	46,942		381,573	160,933
8	1940	Tools, Shop and Garage Equipment	1,447,361	77,000		1,524,361	1,131,371	117,919		1,249,290	275,072
8	1945	Measurement and Testing Equipment	941,204	15,000		956,204	822,680	44,963		867,642	88,562
8	1950	Power Operated Equipment	0			0	0			0	0
8	1955	Communication Equipment	944,263			944,263	607,835	92,368		700,203	244,060
8	1960	Miscellaneous Equipment	2,621,400	32,000		2,653,400	1,713,374	242,943		1,956,317	697,083
47	1970	Load Management Controls - Customer Premises	0			0	0			0	0
47	1975	Load Management Controls - Utility Premises	0			0	0			0	0
8	1980	System Supervisory Equipment	4,964,601	265,636		5,230,237	2,923,239	210,279		3,133,518	2,096,718
47	1985	Sentinel Lighting Rentals	0			0	0			0	0
47	1990	Other Tangible Property	0			0	0			0	0
47	1995	Contributions and Grants	(33,424,664)			(33,424,664)	(10,527,550)	(778,853)		(11,306,403)	(22,118,261)
2005		Property under Capital Lease	0			0	0			0	0
47	2440	Deferred Revenue - Contributed Capital	(6,288,938)	(6,372,309)		(12,661,248)	(164,469)	(248,033)		(412,501)	(12,248,746)
		<b>Total before Work in Process</b>	<b>332,881,281</b>	<b>16,434,411</b>	<b>366,854</b>	<b>348,948,838</b>	<b>142,300,708</b>	<b>8,831,862</b>	<b>328,557</b>	<b>150,804,014</b>	<b>198,144,825</b>
WIP	2070	Other utility plant	0			0				0	0
WIP	2055	Work in Process	1,704,604	1,703,555	1,704,604	1,703,555	0			0	1,703,555
WIP	2040	Electric Plant Held for Future Use	834,656			834,656					834,656
		<b>Total after Work in Process</b>	<b>335,420,541</b>	<b>18,137,966</b>	<b>2,071,458</b>	<b>351,487,049</b>	<b>142,300,708</b>	<b>8,831,862</b>	<b>328,557</b>	<b>150,804,014</b>	<b>200,683,036</b>

Less: Fully Allocated Depreciation	
Transportation	589,154
Truck Tools	117,919
Stores	46,942
<b>Net Depreciation</b>	<b>8,077,849</b>

### Appendix D – Bill Impacts

Please see below for updated Bill Impacts to reflect this Settlement Proposal.

Rate Class	kWh	kW	# of Connections	2015 Bill \$	2016 Bill \$	\$ Difference	Total Bill Impact %	Distribution Bill Impact % *	Distribution Bill Impact % **
Residential Time-of-Use	100			32.89	35.49	2.60	7.91%	12.77%	12.76%
	250			54.23	56.19	1.96	3.62%	7.59%	8.51%
	500			89.78	90.69	0.90	1.01%	1.40%	3.55%
	800			132.46	132.09	(0.37)	-0.28%	-3.64%	-0.41%
	1,000			160.91	159.69	(1.21)	-0.75%	-6.11%	-2.32%
	1,500			232.03	228.69	(3.34)	-1.44%	-10.50%	-5.68%
	2,000			303.16	297.69	(5.47)	-1.80%	-13.38%	-7.86%
GS < 50 kW Time-of-Use	1,000			175.53	173.39	(2.14)	-1.22%	-6.24%	-3.32%
	2,000			311.89	311.82	(0.07)	-0.02%	-3.53%	0.66%
	5,000			720.97	727.11	6.14	0.85%	0.34%	6.04%
	10,000			1,402.78	1,419.25	16.47	1.17%	2.71%	9.16%
	15,000			2,084.58	2,111.38	26.80	1.29%	3.73%	10.48%
GS 50-4,999 kW	20,000	60		3,368.95	3,488.74	119.78	3.56%	-0.87%	23.90%
	40,000	100		6,420.55	6,616.79	196.24	3.06%	-0.99%	25.23%
	100,000	250		15,848.61	16,339.20	490.59	3.10%	-1.12%	28.00%
	200,000	500		31,562.05	32,543.23	981.18	3.11%	-1.18%	29.06%
	400,000	1,000		60,412.51	62,374.87	1,962.36	3.25%	-1.20%	29.62%
Large Use	8,000,000	14,500		1,163,016.08	1,179,364.98	16,348.90	1.41%	0.62%	32.26%
USL	150		1	43.19	35.89	(7.30)	-16.91%	-34.92%	-33.20%
Street Lighting	150	1	1	33.43	35.51	2.08	6.23%	1.41%	20.42%
	50	0.14	1	9.14	9.42	0.28	3.03%	1.15%	14.89%
Embedded Distributor	2,615,000	6,000		337,870.45	350,697.10	12,826.65	3.80%	58.73%	1750.28%

\* Excludes Pass Through Items

\*\* Includes Pass Through Items

## Appendix E – OEB Appendix 2-EC, Account 1576

Please see below for an updated OEB Appendix 2-EC, Account 1576, to reflect this Settlement Proposal.

### Appendix 2-EC Account 1576 - Accounting Changes under CGAAP 2013 Changes in Accounting Policies under CGAAP

For applicants that made capitalization and depreciation expense accounting policy changes under CGAAP effective January 1, 2013

Reporting Basis	Rebasing Year	2011	2012	2013	2014	2015	2016 Rebasing Year
	CGAAP	IRM	IRM	IRM	IRM	MIFRS	MIFRS
	Forecast	Actual	Actual	Actual	Actual	Forecast	Forecast
				\$	\$	\$	\$
<b>PP&amp;E Values under former CGAAP</b>							
Opening net PP&E - Note 1				164,787,950	173,961,321	181,552,703	
Net Additions - Note 4				20,339,324	13,206,059	18,222,841	
Net Depreciation (amounts should be negative) - Note 3				(11,165,953)	(5,614,676)	(11,366,992)	
<b>Closing net PP&amp;E (1)</b>				173,961,321	181,552,703	188,408,552	
<b>PP&amp;E Values under revised CGAAP (Starts from 2013)</b>							
Opening net PP&E - Note 1				164,787,950	174,590,342	183,020,607	
Net Additions - Note 4				17,881,164	11,001,407	15,907,904	
Net Depreciation (amounts should be negative) - Note 3				(8,078,771)	(2,571,143)	(8,345,826)	
<b>Closing net PP&amp;E (2)</b>				174,590,342	183,020,607	190,582,685	
<b>Difference in Closing net PP&amp;E, former CGAAP vs. revised CGAAP</b>				(629,021)	(1,467,904)	(2,174,132)	
<b>Effect on Deferral and Variance Account Rate Riders</b>							
Closing balance in Account 1576						(2,174,132)	
Return on Rate Base Associated with Account 1576 balance at WACC - Note 2						(88,416)	
<b>Amount included in Deferral and Variance Account Rate Rider Calculation</b>						<b>(2,262,548)</b>	

<b>WACC</b>	6.02%
<b># of years of rate rider disposition period</b>	1



## **Appendix F – Draft Accounting Order – Wireless and Wireline**

Please see below for a Draft Accounting Order - Wireless, to reflect this Settlement Proposal.

### **Accounting Order Requested – 1508 Other Regulatory Asset – Sub-account Wireless and Wireline**

WNH requests a new variance account 1508 Other Regulatory Asset – Sub-account Wireless and Wireline Attachments, in relation to the creation of a variance account to record two items: 1) the net (less any related costs) incremental revenues received from any wireless attachments during the IRM period; and 2) any changes in revenue received due to any change in the currently regulated wireline attachment rate of \$22.35 per attachment per pole per year. For clarity, this is a symmetrical account that reflects changes to the rate rather than change in number of wireline attachments.

The Boards *Filing Requirements* indicate that in the event an applicant seeks an accounting order to establish a new deferral/variance account, the eligibility criteria must be met, including causation, materiality and prudence. The eligibility criteria has been met.

In the absence of a general variance account for this purpose, WNH requests that the Board approve an Accounting Order for WNH as part of this settlement, and that such an Accounting Order include the following:

- 1) The net (less any related costs) incremental revenues received from any wireless attachments during the IRM period. These incremental revenues will be recorded as follows:

*Accounting Entry:*

*Debit - Account 4210, Rent from Electric Property*

*Credit - Account 1508, Other Regulatory Asset – Sub-account Wireless and Wireline*

- 2) Any changes in revenue received due to any change in the currently regulated wireline attachment rate of \$22.35 per attachment per pole per year;

*Accounting Entry:*

*Debit/Credit - Account 4210, Rent from Electric Property*

*Credit/Debit - Account 1508, Other Regulatory Asset – Sub-account Wireless and Wireline*

- 3) The account is symmetrical that reflects changes to the rate rather than change in number of wireline attachments;
- 4) The balance in the variance account is to be disposed of at WNH's next Cost of Service Filing; and

- 5) Carrying charges, at the Board's Prescribed Interest Rate for Deferral and Variance Accounts, would be applied until final disposition.

## **Appendix G – Draft Accounting Order – MS Disposition**

Please see below for a Draft Accounting Order – MS Disposition, to reflect this Settlement Proposal.

### **Accounting Order Requested – 1508 Other Regulatory Asset – Sub-account MS Disposition**

WNH requests a new deferral/variance account 1508 Other Regulatory Asset – Sub-account MS Disposition ,in relation creation of a variance account to capture net gains and losses on disposition of various Municipal Station properties inclusive of remediation costs and taxes. Upon disposition, the balance of this account will be distributed with 75% to ratepayers and 25% to WNH. For clarity, this account is not symmetrical in that the Parties agree ratepayers will not owe a credit to WNH if this account is in a net loss scenario at the time of disposition. The balance in the variance account is to be disposed of at WNH’s next Cost of Service Filing

The Boards *Filing Requirements* indicate that in the event an applicant seeks an accounting order to establish a new deferral/variance account, the eligibility criteria must be met, including causation, materiality and prudence. The eligibility criteria has been met.

In the absence of a general variance account for this purpose, WNH requests that the Board approve an Accounting Order for WNH as part of this settlement, and that such an Accounting Order include the following:

- 1) The net gains and losses on disposition of various Municipal Station properties inclusive of remediation costs;

*Accounting Entry:*

*Debit/Credit - Account 4355/4360, Gain/Loss on Disposition of Utility and Other Property*

*Debit/Credit - Account 1508, Other Regulatory Asset – MS Disposition*

- 2) Upon disposition, the balance of this account will be distributed with 75% to ratepayers and 25% to WNH;
- 3) The account is not symmetrical in that the Parties agree ratepayers will not owe a credit to WNH if this account is in a net loss scenario at the time of disposition;
- 4) The balance in the variance account is to be disposed of at WNH’s next Cost of Service Filing; and
- 5) Carrying charges, at the Board’s Prescribed Interest Rate for Deferral and Variance Accounts, would be applied until final disposition.

## **Appendix H – Draft Accounting Order – OPEB**

Please see below for a Draft Accounting Order – OPEB Disposition, to reflect this Settlement Proposal.

### **Accounting Order Requested – 1508 Other Regulatory Asset – Sub-account OPEB**

WNH requests a new deferral/variance account 1508 Other Regulatory Asset – Sub-account OPEB, for the purpose of recording the difference in revenue requirement each year, starting in the test year, between both the capitalized and OM&A components of OPEBs accounted for using a cost basis (as to be reflected in rates if this settlement is accepted by the Board) and both capitalized and OM&A components of OPEBs accounted for using an accrual basis together with related PILs adjustments. This account will accrue interest until final disposition. If the Board determines that LDCs must only include in rates OPEBs accounted for using a cash basis, WNH will seek to discontinue this account without seeking disposition of the amounts recorded in this account. If the Board determines that LDCs may recover OPEBs in rates using an accrual accounting methodology, the Parties agree that WNH will be permitted to seek disposition of this account to recover the amounts so recorded in its next Rate Application following the Board's Decision. WNH will propose a disposition period over which the account should be recovered depending on the quantum in the account and the potential rate impacts at the time.

The Boards *Filing Requirements* indicate that in the event an applicant seeks an accounting order to establish a new deferral/variance account, the eligibility criteria must be met, including causation, materiality and prudence. The eligibility criteria has been met.

In the absence of a general variance account for this purpose, WNH requests that the Board approve an Accounting Order for WNH as part of this settlement, and that such an Accounting Order include the following:

- 1) The recording the difference in revenue requirement each year, starting in the test year, between both the capitalized and OM&A components of OPEBs accounted for using a cost basis (as to be reflected in rates if this settlement is accepted by the Board) and both capitalized and OM&A components of OPEBs accounted for using an accrual basis together with related PILs adjustments;

*Accounting Entry:*

*Debit - Account 1508, Other Regulatory Asset – Sub-account  
Credit – Account 5645, Employee Pensions and Benefits*

- 2) If the Board determines that LDCs must only include in rates OPEBs accounted for using a cash basis, WNH will seek to discontinue this account without seeking disposition of the amounts recorded in this account;

- 3) If the Board determines that LDCs may recover OPEBs in rates using an accrual accounting methodology, the Parties agree that WNH will be permitted to seek disposition of this account to recover the amounts so recorded in its next Rate Application following the Board's Decision. WNH will propose a disposition period over which the account should be recovered depending on the quantum in the account and the potential rate impacts at the time; and
- 4) Carrying charges, at the Board's Prescribed Interest Rate for Deferral and Variance Accounts, would be applied until final disposition.

**Appendix I - OPA/IESO Final 2011-2014 CDM Results**

Please see attached.



**Message from the Vice President:**

The IESO is pleased to provide the enclosed 2011-2014 Final Results Report. This report is designed to help populate LDC Annual Reports that will be submitted to the Ontario Energy Board (OEB) in September 2015.

**2011-2014 Conservation Framework Highlights:**

- LDCs have made significant achievements against dual energy and peak demand savings targets. Collectively, the LDCs have achieved 109% of the energy target and 70% of the peak demand target.
- Momentum has built as we transition to the Conservation First Framework. 2014 demonstrated an achievement of over 1 TWh of net incremental energy savings, positioning us well for average net incremental energy savings of 1.2 TWh required in the new framework to meet our 2020 CDM targets.
- Throughout the past framework, program results have become more predictable year over year as noted in the increasingly smaller variance between quarterly preliminary results and verified final results.
- Customer engagement continued to increase in both the Consumer and Business Programs. Between 2011 - 2014 consumers have purchased over 10 million energy efficient products through the saveONenergy COUPONS program. Customers in RETROFIT continue to declare a positive experience participating in the program with 86% likely to recommend.
- saveONenergy has seen a steady and significant increase in unaided brand awareness by 33% from 2011-2014
- Conservation is becoming even more cost-effective as programs become more efficient and effective. 2014 proved early investments in long lead time projects will pay off with the high savings now being realized in programs like PROCESS & SYSTEMS and RETROFIT. Within 4 cents per kWh, Conservation programs continue to be a valuable and cost effective resource for customers across the province.

The 2011-2014 Final Results within this report vary from the Draft 2011-2014 Final Results Report for the following reasons:

- Savings from Time of Use pricing are included in the Final Results Report. Overall the province saved 55 MWs from Time-of-Use pricing in 2014, or 0.73% of residential summer peak demand.
- Between August 4th and August 28th, the IESO and LDCs have worked collaboratively to reconcile projects from 2011-2014 Final Results Report to ensure every eligible project was captured and accurately reported.
- Verified savings from Innovation Fund pilots are also included for participating LDCs.

All results will be considered final for the 2011-2014 Conservation Framework. Any additional program activity not captured in the 2011-2014 Final Results Report will not be included as part of a future adjustment process.

Please continue to monitor saveONenergy E-blasts for future updates and should you have any other questions or comments please contact LDC.Support@ieso.ca.

We appreciate your collaboration and cooperation throughout the reporting and evaluation process and we look forward to the success ahead in the Conservation First Framework.

Sincerely,

Terry Young

<b>Table of Contents</b>			
	<b>Summary</b>	Provides a summary of the LDC specific IESO-Contracted Province-Wide Program performance to date: achievement against target using scenario 1, sector breakdown and progress to target for the LDC community.	<a href="#">3</a>
<b>LDC-Specific Performance (LDC Level Results)</b>			
Table 1	LDC Initiative and Program Level Net Savings	Provides LDC-specific initiative-level results (activity, net peak demand and energy savings, and how each initiative contributes to targets).	<a href="#">4</a>
Table 2	LDC Adjustments to Net Verified Results	Provides LDC-specific initiative level adjustments from previous years' (activity, net peak demand and energy savings).	<a href="#">5</a>
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<b>Province-Wide Data - (LDC Performance in Aggregate)</b>			
Table 6	Provincial Initiative and Program Level Net Savings	Provides province-wide initiative-level results (activity, net peak demand and energy savings, and how each initiative contributes to targets).	<a href="#">8</a>
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<b>Appendix</b>			
-	Methodology	Detailed descriptions of methods used for results.	<a href="#">12 to 21</a>
-	Reference Tables	Consumer Program allocation methodology.	<a href="#">22 to 23</a>
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Table 14	Provincial Adjustments to Gross Verified Results	Provides province-wide initiative level adjustments from previous years (gross peak demand and energy savings).	<a href="#">28</a>



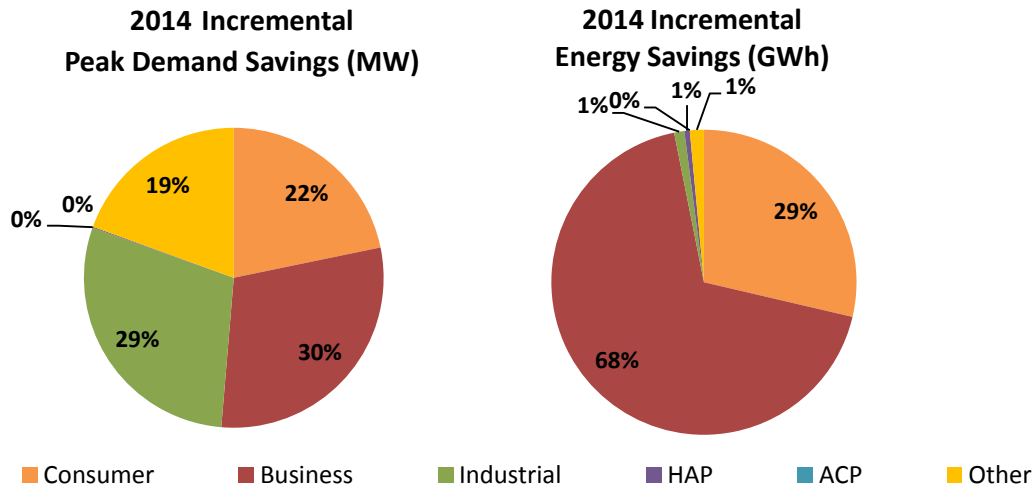
## IESO-Contracted Province-Wide CDM Programs: 2011-2014 Final Results Report

**LDC:** Waterloo North Hydro Inc.

Final 2014 Achievement Against Targets	2014 Incremental	2011-2014	
		Achievement Against Target	% of Target Achieved
<b>Net Annual Peak Demand Savings (MW)</b>	4.2	8.1	<b>51.1%</b>
<b>Net Energy Savings (GWh)</b>	9.9	66.2	<b>99.6%</b>

*Unless otherwise noted, results are presented using scenario 1 which assumes that demand response resources have a persistence of 1 year*

### Achievement by Sector



### Comparison: LDC Achievement vs. LDC Community Achievement (Progress to Target)

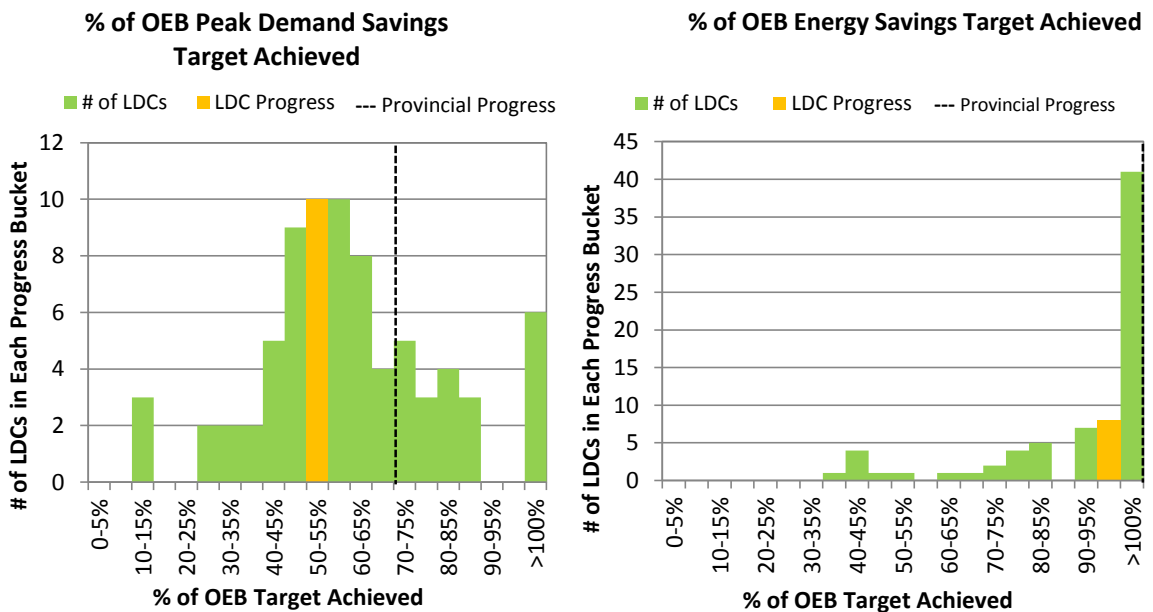


Table 1: Waterloo North Hydro Inc. Initiative and Program Level Net Savings by Year

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
														2014	2014
<b>Consumer Program</b>															
Appliance Retirement	Appliances	433	246	148	182	24	14	10	12	180,566	99,292	63,885	80,001	60	1,227,809
Appliance Exchange	Appliances	22	75	63	142	2	11	13	29	3,051	18,832	23,275	52,460	54	166,552
HVAC Incentives	Equipment	1,199	1,155	1,196	1,521	417	255	240	296	773,162	439,314	409,133	544,462	1,209	5,773,317
Conservation Instant Coupon Booklet	Items	5,070	309	3,486	18,825	12	2	5	42	186,550	14,008	77,221	515,369	61	1,458,036
Bi-Annual Retailer Event	Items	9,539	10,629	9,465	48,338	17	15	12	81	294,427	268,321	172,122	1,231,340	124	3,558,254
Retailer Co-op	Items	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Demand Response	Devices	129	0	511	1,031	72	0	196	365	0	0	652	0	365	652
Residential Demand Response (IHD)	Devices	0	0	381	853	0	0	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Consumer Program Total</b>						<b>544</b>	<b>298</b>	<b>476</b>	<b>826</b>	<b>1,437,756</b>	<b>839,767</b>	<b>746,287</b>	<b>2,423,632</b>	<b>1,874</b>	<b>12,184,620</b>
<b>Business Program</b>															
Retrofit	Projects	40	63	155	134	263	762	557	805	1,433,122	4,566,653	3,060,859	4,881,353	2,369	30,341,738
Direct Install Lighting	Projects	225	106	114	114	248	82	114	94	617,168	307,810	408,878	349,433	466	4,348,246
Building Commissioning	Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	Buildings	0	2	3	4	0	4	1	30	0	3,763	1,047	147,947	35	161,329
Energy Audit	Audits	3	8	35	6	0	36	282	80	0	176,234	1,550,425	391,641	398	4,021,192
Small Commercial Demand Response	Devices	8	0	10	15	5	0	6	8	0	0	10	0	8	10
Small Commercial Demand Response (IHD)	Devices	0	0	2	3	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	3	3	3	3	111	111	113	104	4,323	1,614	1,504	0	104	7,442
<b>Business Program Total</b>						<b>626</b>	<b>996</b>	<b>1,073</b>	<b>1,123</b>	<b>2,054,613</b>	<b>5,056,074</b>	<b>5,022,723</b>	<b>5,770,374</b>	<b>3,381</b>	<b>38,879,957</b>
<b>Industrial Program</b>															
Process & System Upgrades	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Manager	Projects	0	0	1	17	0	0	0	24	0	0	0	91,627	24	91,627
Retrofit	Projects	11	0	0	0	180	0	0	0	1,128,878	0	0	0	180	4,515,511
Demand Response 3	Facilities	4	7	6	10	392	1,260	1,151	1,081	23,003	30,360	30,917	0	1,081	84,279
<b>Industrial Program Total</b>						<b>572</b>	<b>1,260</b>	<b>1,151</b>	<b>1,105</b>	<b>1,151,881</b>	<b>30,360</b>	<b>30,917</b>	<b>91,627</b>	<b>1,284</b>	<b>4,691,417</b>
<b>Home Assistance Program</b>															
Home Assistance Program	Homes	0	40	420	124	0	2	12	4	0	26,655	170,106	48,046	18	467,034
<b>Home Assistance Program Total</b>						<b>0</b>	<b>2</b>	<b>12</b>	<b>4</b>	<b>0</b>	<b>26,655</b>	<b>170,106</b>	<b>48,046</b>	<b>18</b>	<b>467,034</b>
<b>Aboriginal Program</b>															
Home Assistance Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Aboriginal Program Total</b>						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Pre-2011 Programs completed in 2011</b>															
Electricity Retrofit Incentive Program	Projects	28	0	0	0	181	0	0	0	913,663	0	0	0	181	3,654,650
High Performance New Construction	Projects	6	1	0	0	182	21	0	0	932,887	105,383	0	0	203	4,047,698
Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDC Custom Programs	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Pre-2011 Programs completed in 2011 Total</b>						<b>362</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>1,846,550</b>	<b>105,383</b>	<b>0</b>	<b>0</b>	<b>384</b>	<b>7,702,349</b>
<b>Other</b>															
Program Enabled Savings	Projects	0	0	0	3	0	0	0	89	0	0	0	125,622	89	125,622
Time-of-Use Savings	Homes	0	0	0	n/a	0	0	0	651	0	0	0	0	651	0
LDC Pilots	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Other Total</b>						<b>0</b>	<b>0</b>	<b>0</b>	<b>739</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,622</b>	<b>739</b>	<b>125,622</b>
<b>Adjustments to 2011 Verified Results</b>									<b>1</b>				<b>3,666</b>		
<b>Adjustments to 2012 Verified Results</b>													<b>387,881</b>		<b>527,582</b>
<b>Adjustments to 2013 Verified Results</b>															<b>892,901</b>
<b>Energy Efficiency Total</b>						<b>1,524</b>	<b>1,206</b>	<b>1,246</b>	<b>2,238</b>	<b>6,463,473</b>	<b>6,026,264</b>	<b>5,936,950</b>	<b>8,459,300</b>	<b>6,122</b>	<b>63,958,615</b>
<b>Demand Response Total (Scenario 1)</b>						<b>580</b>	<b>1,371</b>	<b>1,466</b>	<b>1,559</b>	<b>27,327</b>	<b>31,974</b>	<b>33,083</b>	<b>0</b>	<b>1,559</b>	<b>92,384</b>
<b>Adjustments to Previous Years' Verified Results Total</b>						<b>0</b>	<b>-36</b>	<b>66</b>	<b>365</b>	<b>0</b>	<b>-589,797</b>	<b>387,881</b>	<b>1,424,149</b>	<b>393</b>	<b>2,191,842</b>
<b>OPA-Contracted LDC Portfolio Total (inc. Adjustments)</b>						<b>2,104</b>	<b>2,541</b>	<b>2,777</b>	<b>4,161</b>	<b>6,490,800</b>	<b>5,468,441</b>	<b>6,357,914</b>	<b>9,883,449</b>	<b>8,074</b>	<b>66,242,840</b>
Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).												Full OEB Target:		<b>15,790</b>	<b>66,490,000</b>
*Includes adjustments after Final Reports were issued												% of Full OEB Target Achieved to Date (Scenario 1):		<b>51.1%</b>	<b>99.6%</b>
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year															

Table 2: Adjustments to Waterloo North Hydro Inc. Net Verified Results due to Variances

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
		2014		2014		2014		2014		2014		2014		2014	2014
<b>Consumer Program</b>															
Appliance Retirement	Appliances	0	0	0		0	0	0		0	0	0		0	0
Appliance Exchange	Appliances	0	0	0		0	0	0		0	0	0		0	0
HVAC Incentives	Equipment	-239	29	49		-67	6	11		-122,413	11,623	18,614		-50	-417,558
Conservation Instant Coupon Booklet	Items	82	0	11		0	0	0		2,762	0	236		0	11,519
Bi-Annual Retailer Event	Items	820	0	0		1	0	0		21,875	0	0		1	87,500
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential New Construction	Homes	0	0	0		0	0	0		0	0	0		0	0
<b>Consumer Program Total</b>						<b>-66</b>	<b>6</b>	<b>11</b>		<b>-97,777</b>	<b>11,623</b>	<b>18,850</b>		<b>-49</b>	<b>-318,540</b>
<b>Business Program</b>															
Retrofit	Projects	0	10	22		0	138	188		0	867,127	641,866		323	3,875,167
Direct Install Lighting	Projects	11	0	0		9	0	0		18,673	0	0		7	68,824
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	0	1	2		0	1	20		0	1,498	7,792		21	20,079
Energy Audit	Audits	3	1	3		16	7	27		79,195	32,009	146,477		49	705,760
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
<b>Business Program Total</b>						<b>25</b>	<b>146</b>	<b>235</b>		<b>97,868</b>	<b>900,633</b>	<b>796,135</b>		<b>401</b>	<b>4,669,830</b>
<b>Industrial Program</b>															
Process & System Upgrades	Projects	0	0	0		0	0	0		0	0	0		0	0
Monitoring & Targeting	Projects	0	0	0		0	0	0		0	0	0		0	0
Energy Manager	Projects	0	0	1		0	0	33		0	0	69,300		33	138,600
Retrofit	Projects	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
<b>Industrial Program Total</b>						<b>0</b>	<b>0</b>	<b>33</b>		<b>0</b>	<b>0</b>	<b>69,300</b>		<b>33</b>	<b>138,600</b>
<b>Home Assistance Program</b>															
Home Assistance Program	Homes	0	3	21		0	1	2		0	3,238	18,599		2	46,843
<b>Home Assistance Program Total</b>						<b>0</b>	<b>1</b>	<b>2</b>		<b>0</b>	<b>3,238</b>	<b>18,599</b>		<b>2</b>	<b>46,843</b>
<b>Aboriginal Program</b>															
Home Assistance Program	Homes	0	0	0		0	0	0		0	0	0		0	0
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
<b>Aboriginal Program Total</b>						<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>
<b>Pre-2011 Programs completed in 2011</b>															
Electricity Retrofit Incentive Program	Projects	0	0	0		0	0	0		0	0	0		0	0
High Performance New Construction	Projects	1	0	0		5	0	0		-586,223	0	0		5	-2,344,891
Toronto Comprehensive	Projects	0	0	0		0	0	0		0	0	0		0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
<b>Pre-2011 Programs completed in 2011 Total</b>						<b>5</b>	<b>0</b>	<b>0</b>		<b>-586,223</b>	<b>0</b>	<b>0</b>		<b>5</b>	<b>-2,344,891</b>
<b>Other</b>															
Program Enabled Savings	Projects	0	0	0		0	0	0		0	0	0		0	0
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
LDC Pilots	Projects	0	0	0		0	0	0		0	0	0		0	0
<b>Other Total</b>						<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>
<b>Adjustments to 2011 Verified Results</b>						<b>-35</b>				<b>-586,131</b>				<b>-37</b>	<b>-2,350,395</b>
<b>Adjustments to 2012 Verified Results</b>							<b>152</b>				<b>915,494</b>			<b>152</b>	<b>2,746,451</b>
<b>Adjustments to 2013 Verified Results</b>								<b>280</b>				<b>902,884</b>		<b>277</b>	<b>1,795,785</b>
<b>Total Adjustments to Previous Years' Verified Results</b>						<b>-35</b>	<b>152</b>	<b>280</b>		<b>-586,131</b>	<b>915,494</b>	<b>902,884</b>		<b>393</b>	<b>2,191,842</b>

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above is presented in the implementation year. Adjustments in Table 1 reflect persisted savings in the year in which that adjustment is verified.

**Table 3: Waterloo North Hydro Inc. Realization Rate & NTG**

Initiative	Peak Demand Savings								Energy Savings							
	Realization Rate				Net-to-Gross Ratio				Realization Rate				Net-to-Gross Ratio			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
<b>Consumer Program</b>																
Appliance Retirement	1.00	1.00	n/a	n/a	0.51	0.46	0.42	0.42	1.00	1.00	n/a	n/a	0.52	0.47	0.44	0.44
Appliance Exchange	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53
HVAC Incentives	1.00	1.00	n/a	1.00	0.60	0.50	0.48	0.51	1.00	1.00	n/a	1.00	0.60	0.49	0.48	0.51
Conservation Instant Coupon Booklet	1.00	1.00	1.00	1.00	1.14	1.00	1.11	1.34	1.00	1.00	1.00	1.00	1.11	1.05	1.13	1.39
Bi-Annual Retailer Event	1.00	1.00	1.00	1.00	1.13	0.91	1.04	1.74	1.00	1.00	1.00	1.00	1.10	0.92	1.04	1.75
Retailer Co-op	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential New Construction	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Business Program</b>																
Retrofit	0.97	0.94	0.91	0.85	0.71	0.71	0.70	0.70	1.16	1.00	0.96	0.93	0.74	0.70	0.71	0.70
Direct Install Lighting	1.08	0.68	0.81	0.78	0.93	0.94	0.94	0.94	0.90	0.85	0.84	0.83	0.93	0.94	0.94	0.94
Building Commissioning	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
New Construction	n/a	0.96	0.47	0.78	n/a	0.49	0.54	0.54	n/a	1.11	0.81	0.92	n/a	0.49	0.54	0.54
Energy Audit	n/a	n/a	1.02	0.96	n/a	n/a	0.66	0.68	n/a	n/a	0.97	1.00	n/a	n/a	0.66	0.67
Small Commercial Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Small Commercial Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Demand Response 3	0.76	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Industrial Program</b>																
Process & System Upgrades	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monitoring & Targeting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Energy Manager	n/a	n/a	n/a	0.91	n/a	n/a	n/a	0.90	n/a	n/a	n/a	0.96	n/a	n/a	n/a	0.90
Retrofit																
Demand Response 3	0.84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Home Assistance Program</b>																
Home Assistance Program	n/a	1.15	0.93	0.95	n/a	1.00	1.00	1.00	n/a	1.03	0.86	0.74	n/a	1.00	1.00	1.00
<b>Aboriginal Program</b>																
Home Assistance Program	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Direct Install Lighting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Pre-2011 Programs completed in 2011</b>																
Electricity Retrofit Incentive Program	0.78	n/a	n/a	n/a	0.52	n/a	n/a	n/a	0.78	n/a	n/a	n/a	0.53	n/a	n/a	n/a
High Performance New Construction	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50
Toronto Comprehensive	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Multifamily Energy Efficiency Rebates	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Custom Programs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Other</b>																
Program Enabled Savings	n/a	n/a	n/a	0.90	n/a	n/a	n/a	1.00	n/a	n/a	n/a	0.94	n/a	n/a	n/a	1.00
Time-of-Use Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Pilots	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

## Summary Achievement Against CDM Targets

Results are recognized using current IESO reporting policies. Energy efficiency resources persist for the duration of the effective useful life. Any upcoming code changes are taken into account. Demand response resources persist for 1 year (Scenario 1). Please see methodology tab for more detailed information.

### Table 4: Net Peak Demand Savings at the End User Level (MW) (Scenario 1)

Implementation Period	Annual			
	2011	2012	2013	2014
<b>2011 - Verified</b>	2.1	1.5	1.5	1.5
<b>2012 - Verified†</b>	0.0	2.5	1.2	1.2
<b>2013 - Verified†</b>	0.0	0.1	2.8	1.3
<b>2014 - Verified†</b>	0.0	0.1	0.4	4.2
<b>Verified Net Annual Peak Demand Savings Persisting in 2014:</b>				<b>8.1</b>
<b>Waterloo North Hydro Inc. 2014 Annual CDM Capacity Target:</b>				<b>15.8</b>
<b>Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):</b>				<b>51.1%</b>

### Table 5: Net Energy Savings at the End User Level (GWh)

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
<b>2011 - Verified</b>	6.5	6.5	6.4	6.3	25.7
<b>2012 - Verified†</b>	-0.6	5.5	5.4	5.4	15.7
<b>2013 - Verified†</b>	0.0	0.4	6.4	6.3	13.1
<b>2014 - Verified†</b>	0.0	0.5	1.43	9.9	11.9
<b>Verified Net Cumulative Energy Savings 2011-2014:</b>					<b>66.2</b>
<b>Waterloo North Hydro Inc. 2011-2014 Annual CDM Energy Target:</b>					<b>66.5</b>
<b>Verified Portion of Cumulative Energy Target Achieved in 2014 (%):</b>					<b>99.6%</b>

*†Includes adjustments to previous years' verified results*

*Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year*

Table 6: Province-Wide Initiatives and Program Level Net Savings by Year (Scenario 1)

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2011-2014 Net Cumulative Energy Savings (kWh) 2014
		2014		2014		2014		2014		2014		2014		2014	
<b>Consumer Program</b>															
Appliance Retirement	Appliances	56,110	34,146	20,952	22,563	3,299	2,011	1,433	1,617	23,005,812	13,424,518	8,713,107	9,497,343	8,221	159,100,415
Appliance Exchange	Appliances	3,688	3,836	5,337	5,685	371	556	1,106	1,178	450,187	974,621	1,971,701	2,100,266	2,273	10,556,192
HVAC Incentives	Equipment	92,748	87,540	96,286	113,002	32,037	19,060	19,552	23,106	59,437,670	32,841,283	33,923,592	42,888,217	93,755	447,009,930
Conservation Instant Coupon Booklet	Items	567,678	30,891	347,946	1,208,108	1,344	230	517	2,440	21,211,537	1,398,202	7,707,573	32,802,537	4,531	137,258,436
Bi-Annual Retailer Event	Items	952,149	1,060,901	944,772	4,824,751	1,681	1,480	1,184	8,043	29,387,468	26,781,674	17,179,841	122,902,769	12,389	355,157,348
Retailer Co-op	Items	152	0	0	0	0	0	0	0	2,652	0	0	0	0	10,607
Residential Demand Response	Devices	19,550	98,388	171,733	241,381	10,947	49,038	93,076	117,513	24,870	359,408	390,303	8,379	117,513	782,960
Residential Demand Response (IHD)	Devices	0	49,689	133,657	188,577	0	0	0	0	0	0	0	0	0	0
Residential New Construction	Homes	27	21	279	2,367	0	2	18	369	743	17,152	163,690	2,330,865	390	2,712,676
<b>Consumer Program Total</b>						<b>49,681</b>	<b>72,377</b>	<b>116,886</b>	<b>154,267</b>	<b>133,520,941</b>	<b>75,796,859</b>	<b>70,049,807</b>	<b>212,530,376</b>	<b>239,772</b>	<b>1,112,588,565</b>
<b>Business Program</b>															
Retrofit	Projects	2,828	6,481	9,746	10,925	24,467	61,147	59,678	70,662	136,002,258	314,922,468	345,346,008	462,903,521	213,493	2,631,401,223
Direct Install Lighting	Projects	20,741	18,691	17,833	23,784	23,724	15,284	18,708	23,419	61,076,701	57,345,798	64,315,558	84,503,302	73,304	604,196,658
Building Commissioning	Buildings	0	0	0	5	0	0	0	988	0	0	0	1,513,377	988	1,513,377
New Construction	Buildings	25	98	158	226	123	764	1,584	6,432	411,717	1,814,721	4,959,266	20,381,204	8,904	37,390,767
Energy Audit	Audits	222	357	589	473	0	1,450	2,811	6,323	0	7,049,351	15,455,795	30,874,399	10,583	82,934,042
Small Commercial Demand Response	Devices	132	294	1,211	3,652	84	187	773	2,116	157	1,068	373	319	2,116	1,916
Small Commercial Demand Response (IHD)	Devices	0	0	378	820	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	145	151	175	180	16,218	19,389	23,706	23,380	633,421	281,823	346,659	0	23,380	1,261,903
<b>Business Program Total</b>						<b>64,617</b>	<b>98,221</b>	<b>107,261</b>	<b>133,319</b>	<b>198,124,253</b>	<b>381,415,230</b>	<b>430,423,659</b>	<b>600,176,121</b>	<b>332,769</b>	<b>3,358,699,887</b>
<b>Industrial Program</b>															
Process & System Upgrades	Projects	0	0	5	10	0	0	294	9,692	0	0	2,603,764	72,053,255	9,986	77,260,782
Monitoring & Targeting	Projects	0	1	3	5	0	0	0	102	0	0	0	502,517	102	502,517
Energy Manager	Projects	1	132	306	379	0	1,086	3,558	5,191	0	7,372,108	21,994,263	40,436,427	8,384	95,324,998
Retrofit	Projects	433	0	0	0	4,615	0	0	0	28,866,840	0	0	0	4,613	115,462,282
Demand Response 3	Facilities	124	185	281	336	52,484	74,056	162,543	166,082	3,080,737	1,784,712	4,309,160	0	166,082	9,174,609
<b>Industrial Program Total</b>						<b>57,098</b>	<b>75,141</b>	<b>166,395</b>	<b>181,066</b>	<b>31,947,577</b>	<b>9,156,820</b>	<b>28,907,187</b>	<b>112,992,199</b>	<b>189,168</b>	<b>297,725,188</b>
<b>Home Assistance Program</b>															
Home Assistance Program	Homes	46	5,920	29,654	25,424	2	566	2,361	2,466	39,283	5,442,232	20,987,275	19,582,658	5,370	77,532,571
<b>Home Assistance Program Total</b>						<b>2</b>	<b>566</b>	<b>2,361</b>	<b>2,466</b>	<b>39,283</b>	<b>5,442,232</b>	<b>20,987,275</b>	<b>19,582,658</b>	<b>5,370</b>	<b>77,532,571</b>
<b>Aboriginal Program</b>															
Home Assistance Program	Homes	0	0	717	1,125	0	0	267	549	0	0	1,609,393	3,101,207	816	6,319,993
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Aboriginal Program Total</b>						<b>0</b>	<b>0</b>	<b>267</b>	<b>549</b>	<b>0</b>	<b>0</b>	<b>1,609,393</b>	<b>3,101,207</b>	<b>816</b>	<b>6,319,993</b>
<b>Pre-2011 Programs completed in 2011</b>															
Electricity Retrofit Incentive Program	Projects	2,028	0	0	0	21,662	0	0	0	121,138,219	0	0	0	21,662	484,552,876
High Performance New Construction	Projects	182	73	19	3	5,098	3,251	772	134	26,185,591	11,901,944	3,522,240	688,738	9,255	148,181,415
Toronto Comprehensive	Projects	577	15	4	5	15,805	0	0	281	86,964,886	0	0	2,479,840	16,086	350,339,385
Multifamily Energy Efficiency Rebates	Projects	110	0	0	0	1,981	0	0	0	7,595,683	0	0	0	1,981	30,382,733
LDC Custom Programs	Projects	8	0	0	0	399	0	0	0	1,367,170	0	0	0	399	5,468,679
<b>Pre-2011 Programs completed in 2011 Total</b>						<b>44,945</b>	<b>3,251</b>	<b>772</b>	<b>415</b>	<b>243,251,550</b>	<b>11,901,944</b>	<b>3,522,240</b>	<b>3,168,578</b>	<b>49,382</b>	<b>1,018,925,088</b>
<b>Other</b>															
Program Enabled Savings	Projects	33	71	46	43	0	2,304	3,692	5,500	0	1,188,362	4,075,382	19,035,337	11,496	30,751,187
Time-of-Use Savings	Homes	0	0	0	n/a	0	0	0	54,795	0	0	0	0	54,795	0
LDC Pilots	Projects	0	0	0	1,174	0	0	0	1,170	0	0	0	5,061,522	1,170	5,061,522
<b>Other Total</b>						<b>0</b>	<b>2,304</b>	<b>3,692</b>	<b>61,466</b>	<b>0</b>	<b>1,188,362</b>	<b>4,075,382</b>	<b>24,096,859</b>	<b>67,462</b>	<b>35,812,709</b>
<b>Adjustments to 2011 Verified Results</b>							<b>1,406</b>	<b>641</b>	<b>1,418</b>		<b>18,689,081</b>	<b>1,736,381</b>	<b>7,319,857</b>	<b>3,215</b>	<b>110,143,550</b>
<b>Adjustments to 2012 Verified Results</b>								<b>6,260</b>	<b>9,221</b>			<b>41,947,840</b>	<b>37,080,215</b>	<b>15,401</b>	<b>238,780,637</b>
<b>Adjustments to 2013 Verified Results</b>									<b>24,391</b>				<b>150,785,808</b>	<b>24,391</b>	<b>296,465,211</b>
<b>Energy Efficiency Total</b>						<b>136,610</b>	<b>109,191</b>	<b>117,536</b>	<b>224,457</b>	<b>603,144,419</b>	<b>482,474,435</b>	<b>554,528,447</b>	<b>975,639,300</b>	<b>575,647</b>	<b>5,896,382,612</b>
<b>Demand Response Total (Scenario 1)</b>						<b>79,733</b>	<b>142,670</b>	<b>280,099</b>	<b>309,091</b>	<b>3,739,185</b>	<b>2,427,011</b>	<b>5,046,495</b>	<b>8,698</b>	<b>309,091</b>	<b>11,221,389</b>
<b>Adjustments to Previous Years' Verified Results Total</b>						<b>0</b>	<b>1,406</b>	<b>6,901</b>	<b>35,030</b>	<b>0</b>	<b>18,689,081</b>	<b>43,684,221</b>	<b>195,185,880</b>	<b>43,006</b>	<b>645,389,397</b>
<b>OPA-Contracted LDC Portfolio Total (inc. Adjustments)</b>						<b>216,343</b>	<b>253,267</b>	<b>404,536</b>	<b>568,578</b>	<b>606,883,604</b>	<b>503,590,526</b>	<b>603,259,163</b>	<b>1,170,833,878</b>	<b>927,745</b>	<b>6,552,993,397</b>
Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).												*Includes adjustments after Final Reports were issued			
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year												Full OEB Target:			
												1,330,000			
												6,000,000,000			
												70%			
												109%			
												Full OEB Target Achieved to Date (Scenario 1):			

Table 7: Adjustments to Province-Wide Net Verified Results due to Variances

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
<b>Consumer Program</b>															
Appliance Retirement	Appliances	0	0	0		0	0	0		0	0	0		0	0
Appliance Exchange	Appliances	0	0	0		0	0	0		0	0	0		0	0
HVAC Incentives	Equipment	-18,839	2,319	4,705		-5,270	479	1,037		-9,707,002	955,512	1,838,408		-3,754	-32,284,656
Conservation Instant Coupon Booklet	Items	8,216	0	1,050		16	0	2		275,655	0	23,571		18	1,149,763
Bi-Annual Retailer Event	Items	81,817	0	0		108	0	0		2,183,391	0	0		108	8,733,563
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential New Construction	Homes	20	2	193		1	1	72		14,667	985	441,938		74	945,497
<b>Consumer Program Total</b>						<b>-5,145</b>	<b>480</b>	<b>1,111</b>		<b>-7,233,290</b>	<b>956,497</b>	<b>2,303,917</b>		<b>-3,555</b>	<b>-21,664,975</b>
<b>Business Program</b>															
Retrofit	Projects	312	876	961		3,208	7,233	11,961		16,266,129	42,498,052	78,146,280		22,056	347,545,386
Direct Install Lighting	Projects	444	197	51		501	204	46		1,250,388	736,541	164,667		620	7,158,143
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	15	29	72		850	1,304	2,241		3,604,553	4,825,774	8,636,179		4,401	46,187,216
Energy Audit	Audits	119	77	270		604	439	2,383		2,945,189	2,145,367	13,100,635		3,426	44,418,129
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
<b>Business Program Total</b>						<b>5,162</b>	<b>9,181</b>	<b>16,631</b>		<b>24,066,259</b>	<b>50,205,734</b>	<b>100,047,761</b>		<b>30,503</b>	<b>385,148,444</b>
<b>Industrial Program</b>															
Process & System Upgrades	Projects	0	0	2		0	0	324		0	0	968,659		324	1,937,318
Monitoring & Targeting	Projects	0	1	3		0	0	54		0	528,000	639,348		54	2,862,696
Energy Manager	Projects	1	93	101		27	1,067	2,395		241,515	8,266,841	25,814,853		4,345	81,853,489
Retrofit	Projects	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
<b>Industrial Program Total</b>						<b>27</b>	<b>1,067</b>	<b>2,774</b>		<b>241,515</b>	<b>8,794,841</b>	<b>27,422,860</b>		<b>4,723</b>	<b>61,215,516</b>
<b>Home Assistance Program</b>															
Home Assistance Program	Homes	0	887	2,898		0	222	791		0	1,316,749	4,321,794		1,009	12,515,300
<b>Home Assistance Program Total</b>						<b>0</b>	<b>222</b>	<b>791</b>		<b>0</b>	<b>1,316,749</b>	<b>4,321,794</b>		<b>1,009</b>	<b>8,581,177</b>
<b>Aboriginal Program</b>															
Home Assistance Program	Homes	0	0	133		0	0	134		0	0	563,715		134	1,127,430
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
<b>Aboriginal Program Total</b>						<b>0</b>	<b>0</b>	<b>134</b>		<b>0</b>	<b>0</b>	<b>563,715</b>		<b>134</b>	<b>1,127,430</b>
<b>Pre-2011 Programs completed in 2011</b>															
Electricity Retrofit Incentive Program	Projects	12	0	0		138	0	0		545,536	0	0		138	2,182,145
High Performance New Construction	Projects	37	4	15		1,507	363	-184		2,398,941	2,832,533	-993,596		1,686	16,106,171
Toronto Comprehensive	Projects	0	15	4		0	672	185		0	4,523,517	1,324,388		857	16,219,327
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
<b>Pre-2011 Programs completed in 2011 Total</b>						<b>1,645</b>	<b>1,035</b>	<b>2</b>		<b>2,944,477</b>	<b>7,356,050</b>	<b>330,792</b>		<b>2,682</b>	<b>11,104,528</b>
<b>Other</b>															
Program Enabled Savings	Projects	33	55	33		1,776	3,712	2,020		7,727,573	11,481,687	10,688,564		7,509	86,732,481
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
LDC Pilots	Projects	0	0	0		0	0	0		0	0	0		0	0
<b>Other Total</b>						<b>1,776</b>	<b>3,712</b>	<b>2,020</b>		<b>7,727,573</b>	<b>11,481,687</b>	<b>10,688,564</b>		<b>7,509</b>	<b>86,732,481</b>
<b>Adjustments to 2011 Verified Results</b>						<b>3,465</b>				<b>27,746,535</b>				<b>3,215</b>	<b>110,143,550</b>
<b>Adjustments to 2012 Verified Results</b>							<b>15,697</b>				<b>80,111,558</b>			<b>15,401</b>	<b>238,780,637</b>
<b>Adjustments to 2013 Verified Results</b>								<b>23,463</b>				<b>145,679,403</b>		<b>24,391</b>	<b>296,465,211</b>
<b>Adjustments to Previous Years' Verified Results Total</b>						<b>3,465</b>	<b>15,697</b>	<b>23,463</b>		<b>27,746,535</b>	<b>80,111,558</b>	<b>145,679,403</b>		<b>43,006</b>	<b>645,389,397</b>

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above is presented in the implementation year. Adjustments in Table 1 reflect persisted savings in the year in which that adjustment is verified.

**Table 8: Province-Wide Realization Rate & NTG**

Initiative	Peak Demand Savings								Energy Savings							
	Realization Rate				Net-to-Gross Ratio				Realization Rate				Net-to-Gross Ratio			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
<b>Consumer Program</b>																
Appliance Retirement	1.00	1.00	1.00	1.00	0.51	0.46	0.42	0.45	1.00	1.00	1.00	1.00	0.46	0.47	0.44	0.47
Appliance Exchange	1.00	1.00	1.00	1.00	0.51	0.52	0.53	0.53	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53
HVAC Incentives	1.00	1.00	1.00	1.00	0.60	0.50	0.48	0.48	1.00	1.00	1.00	1.00	0.50	0.49	0.48	0.48
Conservation Instant Coupon Booklet	1.00	1.00	1.00	1.00	1.14	1.00	1.11	1.69	1.00	1.00	1.00	1.00	1.00	1.05	1.13	1.73
Bi-Annual Retailer Event	1.00	1.00	1.00	1.00	1.12	0.91	1.04	1.74	1.00	1.00	1.00	1.00	0.91	0.92	1.04	1.75
Retailer Co-op	1.00	n/a	n/a	n/a	0.68	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential New Construction	1.00	3.65	0.78	1.03	0.41	0.49	0.63	0.63	3.65	7.17	3.09	0.62	0.49	0.49	0.63	0.63
<b>Business Program</b>																
Retrofit	1.06	0.93	0.92	0.84	0.72	0.75	0.73	0.71	0.93	1.05	1.01	0.98	0.75	0.76	0.73	0.72
Direct Install Lighting	1.08	0.69	0.82	0.78	1.08	0.94	0.94	0.94	0.69	0.85	0.84	0.83	0.94	0.94	0.94	0.94
Building Commissioning	n/a	n/a	n/a	1.97	n/a	n/a	n/a	1.00	n/a	n/a	n/a	1.16	n/a	n/a	n/a	1.00
New Construction	0.50	0.98	0.68	0.71	0.50	0.49	0.54	0.54	0.98	0.99	0.76	0.79	0.49	0.49	0.54	0.54
Energy Audit	n/a	n/a	1.02	0.96	n/a	n/a	0.66	0.68	n/a	n/a	0.97	1.00	n/a	n/a	0.66	0.67
Small Commercial Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Small Commercial Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Demand Response 3	0.76	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Industrial Program</b>																
Process & System Upgrades	n/a	n/a	0.85	0.96	n/a	n/a	0.94	0.79	n/a	n/a	0.87	0.96	n/a	n/a	0.93	0.80
Monitoring & Targeting	n/a	n/a	n/a	0.59	n/a	n/a	n/a	1.00	n/a	n/a	n/a	0.36	n/a	n/a	n/a	1.00
Energy Manager	n/a	1.16	0.90	0.91	n/a	0.90	0.90	0.90	1.16	1.16	0.90	0.96	0.90	0.90	0.90	0.85
Retrofit	1.11	n/a	n/a	n/a	0.72	n/a	n/a	n/a	0.91	n/a	n/a	n/a	0.75	n/a	n/a	n/a
Demand Response 3	0.84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Home Assistance Program</b>																
Home Assistance Program	1.00	0.32	0.26	0.49	0.70	1.00	1.00	1.00	0.32	0.99	0.88	0.78	1.00	1.00	1.00	1.00
<b>Aboriginal Program</b>																
Home Assistance Program	n/a	n/a	0.05	0.15	n/a	n/a	1.00	1.00	n/a	n/a	0.95	0.97	n/a	n/a	1.00	1.00
Direct Install Lighting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Pre-2011 Programs completed in 2011</b>																
Electricity Retrofit Incentive Program	0.80	n/a	n/a	n/a	0.54	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
High Performance New Construction	1.00	1.00	1.00	n/a	0.49	0.50	0.50	0.50	1.00	1.00	1.00	n/a	0.50	0.50	0.50	0.50
Toronto Comprehensive	1.13	n/a	n/a	n/a	0.50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Multifamily Energy Efficiency Rebates	0.93	n/a	n/a	n/a	0.78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Custom Programs	1.00	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Other</b>																
Program Enabled Savings	n/a	1.06	1.00	0.86	n/a	1.00	1.00	1.00	n/a	2.26	1.00	0.98	n/a	1.00	1.00	1.00
Time-of-Use Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Pilots	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



## Summary Provincial Progress Towards CDM Targets

### Table 9: Province-Wide Net Peak Demand Savings at the End User Level (MW)

Implementation Period	Annual			
	2011	2012	2013	2014
2011	216.3	136.6	135.8	129.0
2012†	1.4	253.3	109.8	108.2
2013†	0.6	7.0	404.5	122.0
2014†	1.4	10.8	34.2	568.6
<b>Verified Net Annual Peak Demand Savings in 2014:</b>				<b>927.7</b>
<b>2014 Annual CDM Capacity Target:</b>				<b>1,330</b>
<b>Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):</b>				<b>69.8%</b>

### Table 10: Province-Wide Net Energy Savings at the End-User Level (GWh)

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011	606.9	603.0	601.0	582.3	2,393.1
2012†	18.7	503.6	498.4	492.6	1,513.3
2013†	1.7	44.4	603.3	583.4	1,232.8
2014†	7.3	44.8	191.0	1,170.8	1,413.9
<b>Verified Net Cumulative Energy Savings 2011-2014:</b>					<b>6,553.0</b>
<b>2011-2014 Cumulative CDM Energy Target:</b>					<b>6,000</b>
<b>Verified Portion of Cumulative Energy Target Achieved in 2014 (%):</b>					<b>109.2%</b>

†Includes adjustments to previous years' verified results

Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

## METHODOLOGY

All results are at the end-user level (not including transmission and distribution losses)

EQUATIONS	
Prescriptive Measures and Projects	<p><b>Gross Savings = Activity * Per Unit Assumption</b>  <b>Net Savings = Gross Savings * Net-to-Gross Ratio</b>  <b>All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed)</b></p>
Engineered and Custom Projects	<p><b>Gross Savings = Reported Savings * Realization Rate</b>  <b>Net Savings = Gross Savings * Net-to-Gross Ratio</b>  <b>All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed)</b></p>
Demand Response	<p><b>Peak Demand: Gross Savings = Net Savings = contracted MW at contributor level * Provincial contracted to ex ante ratio</b>  <b>Energy: Gross Savings = Net Savings = provincial ex post energy savings * LDC proportion of total provincial contracted MW</b>  <b>All savings are annualized (i.e. the savings are the same regardless of the time of year a participant began offering DR)</b></p>
Adjustments to Previous Years' Verified Results	<p>All variances from the Final Annual Results Reports from prior years will be adjusted within this report. Any variances with regards to projects counts, data lag, and calculations etc., will be made within this report. Considers the cumulative effect of energy savings.</p>

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
<b>Consumer Program</b>			
Appliance Retirement	Includes both retail and home pickup stream. Retail stream allocated based on average of 2008 & 2009 residential throughput; Home pickup stream directly attributed by postal code or customer selection.	Savings are considered to begin in the year the appliance is picked up.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Appliance Exchange	When postal code information is provided by customer, results are directly attributed to the LDC. When postal code is not available, results allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year that the exchange event occurred.	
HVAC Incentives	Results directly attributed to LDC based on customer postal code.	Savings are considered to begin in the year that the installation occurred.	

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Conservation Instant Coupon Booklet	LDC-coded coupons directly attributed to LDC. Otherwise results are allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year in which the coupon was redeemed.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Bi-Annual Retailer Event	Results are allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year in which the event occurs.	
Retailer Co-op	When postal code information is provided by the customer, results are directly attributed. If postal code information is not available, results are allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year of the home visit and installation date.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Residential Demand Response	Results are directly attributed to LDC based on data provided to IESO through project completion reports and continuing participant lists.	Savings are considered to begin in the year the device was installed and/or when a customer signed a peaksaver PLUS™ participant agreement.	Peak demand savings are based on an ex ante estimate assuming a 1 in 10 weather year and represents the "insurance value" of the initiative. Energy savings are based on an ex post estimate which reflects the savings that occurred as a result of activations in the year and accounts for any "snapback" in energy consumption experienced after the event. Savings are assumed to persist for only 1 year, reflecting that savings will only occur if the resource is activated.

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Residential New Construction	Results are directly attributed to LDC based on LDC identified in application in the iCon system. Initiative was not evaluated in 2011, reported results are presented with forecast assumptions as per the business case.	Savings are considered to begin in the year of the project completion date.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
<b>Business Program</b>			
Efficiency: Equipment Replacement	Results are directly attributed to LDC based on LDC identified at the facility level in the iCon system. Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see page for Building type to Sector mapping.	Savings are considered to begin in the year of the actual project completion date in the iCON system.	Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track).
	Additional Note: project counts were derived by filtering out invalid statuses (e.g. Post-Project Submission - Payment denied by LDC) and only including projects with an "Actual Project Completion Date" in 2014)		

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Direct Installed Lighting	Results are directly attributed to LDC based on the LDC specified on the work order.	Savings are considered to begin in the year of the actual project completion date.	Peak demand and energy savings are determined using the verified measure level per unit assumptions multiplied by the uptake of each measure accounting for the realization rate for both peak demand and energy to reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings take into account net-to-gross factors such as free-ridership and spillover for both peak demand and energy savings at the program level (net).
Existing Building Commissioning Incentive	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year of the actual project completion date.	Peak demand and energy savings are determined by the total savings for a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
New Construction and Major Renovation Incentive	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year of the actual project completion date.	
Energy Audit	Projects are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year of the audit date.	Peak demand and energy savings are determined by the total savings resulting from an audit as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Commercial Demand Response (part of the Residential program schedule)	Results are directly attributed to LDC based on data provided to IESO through project completion reports and continuing participant lists	Savings are considered to begin in the year the device was installed and/or when a customer signed a peaksaver PLUS™ participant agreement.	Peak demand savings are based on an ex ante estimate assuming a 1 in 10 weather year and represents the "insurance value" of the initiative. Energy savings are based on an ex post estimate which reflects the savings that occurred as a result of activations in the year. Savings are assumed to persist for only 1 year, reflecting that savings will only occur if the resource is activated.
Demand Response 3 (part of the Industrial program schedule)	Results are attributed to LDCs based on the total contracted megawatts at the contributor level as of December 31st, applying the provincial ex ante to contracted ratio (ex ante estimate/contracted megawatts); Ex post energy savings are attributed to the LDC based on their proportion of the total contracted megawatts at the contributor level.	Savings are considered to begin in the year in which the contributor signed up to participate in demand response.	Peak demand savings are ex ante estimates based on the load reduction capability that can be expected for the purposes of planning. The ex ante estimates factor in both scheduled non-performances (i.e. maintenance) and historical performance. Energy savings are based on an ex post estimate which reflects the savings that actually occurred as a results of activations in the year. Savings are assumed to persist for 1 year, reflecting that savings will not occur if the resource is not activated and additional costs are incurred to activate the resource.
<b>Industrial Program</b>			
Process & System Upgrades	Results are directly attributed to LDC based on LDC identified in application.	Savings are considered to begin in the year in which the incentive project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Monitoring & Targeting	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the incentive project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
Energy Manager	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the project was completed by the energy manager. If no date is specified the savings will begin the year of the Quarterly Report submitted by the energy manager.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	Results are directly attributed to LDC based on LDC identified at the facility level in the saveONenergy CRM; Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see "Reference Tables" tab for Building type to Sector mapping.	Savings are considered to begin in the year of the actual project completion date on the iCON CRM system.	Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON CRM system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track).
Demand Response 3	Results are attributed to LDCs based on the total contracted megawatts at the contributor level as of December 31st, applying the provincial ex ante to contracted ratio (ex ante estimate/contracted megawatts); Ex post energy savings are attributed to the LDC based on their proportion of the total contracted megawatts at the contributor level.	Savings are considered to begin in the year in which the contributor signed up to participate in demand response.	Peak demand savings are ex ante estimates based on the load reduction capability that can be expected for the purposes of planning. The ex ante estimates factor in both scheduled non-performances (i.e. maintenance) and historical performance. Energy savings are based on an ex post estimate which reflects the savings that actually occurred as a results of activations in the year. Savings are assumed to persist for 1 year, reflecting that savings will not occur if the resource is not activated and additional costs are incurred to activate the resource.



Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
<b>Home Assistance Program</b>			
Home Assistance Program	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the measures were installed.	Peak demand and energy savings are determined using the measure level per unit assumption multiplied by the uptake of each measure (gross), taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
<b>Aboriginal Program</b>			
Aboriginal Program	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the measures were installed.	Peak demand and energy savings are determined using the measure level per unit assumption multiplied by the uptake of each measure (gross), taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
<b>Pre-2011 Programs completed in 2011</b>			
Electricity Retrofit Incentive Program	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 2012, 2013 or 2014 assumptions as per 2010 evaluation.	Savings are considered to begin in the year in which a project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported. A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). If energy savings are not available, an estimate is made based on the kWh to kW ratio in the provincial results from the 2010 evaluated results ( <a href="http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports">http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports</a> ).
High Performance New Construction	Results are directly attributed to LDC based on customer data provided to the OPA from Enbridge; Initiative was not evaluated in 2011, 2012, 2013 or 2014, assumptions as per 2010 evaluation.	Savings are considered to begin in the year in which a project was completed.	
Toronto Comprehensive	Program run exclusively in Toronto Hydro-Electric System Limited service territory; Initiative was not evaluated in 2011, 2012, 2013 or 2014, assumptions as per 2010 evaluation.		

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Multifamily Energy Efficiency Rebates	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 2012, 2013 or 2014, assumptions as per 2010 evaluation.	Savings are considered to begin in the year in which a project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). If energy savings are not available, an estimate is made based on the kWh to kW ratio in the provincial results from the 2010 evaluated results ( <a href="http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports">http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports</a> ).
Data Centre Incentive Program	Program run exclusively in PowerStream Inc. service territory; Initiative was not evaluated in 2011, assumptions as per 2009 evaluation.		
EnWin Green Suites	Program run exclusively in ENWIN Utilities Ltd. service territory; Initiative was not evaluated in 2011 or 2012, assumptions as per 2010 evaluation.		

### Consumer Program Allocation Methodology

Results can be allocated based on average of 2008 & 2009 residential throughput for each LDC (below) when additional information is not available. Source: OEB Yearbook Data 2008 & 2009

Local Distribution Company	Allocation
Algoma Power Inc.	0.2%
Atikokan Hydro Inc.	0.0%
Attawapiskat Power Corporation	0.0%
Bluewater Power Distribution Corporation	0.6%
Brant County Power Inc.	0.2%
Brantford Power Inc.	0.7%
Burlington Hydro Inc.	1.4%
Cambridge and North Dumfries Hydro Inc.	1.0%
Canadian Niagara Power Inc.	0.5%
Centre Wellington Hydro Ltd.	0.1%
Chapleau Public Utilities Corporation	0.0%
COLLUS Power Corporation	0.3%
Cooperative Hydro Embrun Inc.	0.0%
E.L.K. Energy Inc.	0.2%
Enersource Hydro Mississauga Inc.	3.9%
ENTEGRUS	0.6%
ENWIN Utilities Ltd.	1.6%
Erie Thames Powerlines Corporation	0.4%
Espanola Regional Hydro Distribution Corporation	0.1%
Essex Powerlines Corporation	0.7%
Festival Hydro Inc.	0.3%
Fort Albany Power Corporation	0.0%
Fort Frances Power Corporation	0.1%
Greater Sudbury Hydro Inc.	1.0%
Grimsby Power Inc.	0.2%
Guelph Hydro Electric Systems Inc.	0.9%
Haldimand County Hydro Inc.	0.4%
Halton Hills Hydro Inc.	0.5%
Hearst Power Distribution Company Limited	0.1%
Horizon Utilities Corporation	4.0%
Hydro 2000 Inc.	0.0%
Hydro Hawkesbury Inc.	0.1%
Hydro One Brampton Networks Inc.	2.8%
Hydro One Networks Inc.	30.0%
Hydro Ottawa Limited	5.6%
Innisfil Hydro Distribution Systems Limited	0.4%
Kashechewan Power Corporation	0.0%
Kenora Hydro Electric Corporation Ltd.	0.1%
Kingston Hydro Corporation	0.5%
Kitchener-Wilmot Hydro Inc.	1.6%
Lakefront Utilities Inc.	0.2%

Lakeland Power Distribution Ltd.	0.2%
London Hydro Inc.	2.7%
Middlesex Power Distribution Corporation	0.1%
Midland Power Utility Corporation	0.1%
Milton Hydro Distribution Inc.	0.6%
Newmarket - Tay Power Distribution Ltd.	0.7%
Niagara Peninsula Energy Inc.	1.0%
Niagara-on-the-Lake Hydro Inc.	0.2%
Norfolk Power Distribution Inc.	0.3%
North Bay Hydro Distribution Limited	0.5%
Northern Ontario Wires Inc.	0.1%
Oakville Hydro Electricity Distribution Inc.	1.5%
Orangeville Hydro Limited	0.2%
Orillia Power Distribution Corporation	0.3%
Oshawa PUC Networks Inc.	1.2%
Ottawa River Power Corporation	0.2%
Parry Sound Power Corporation	0.1%
Peterborough Distribution Incorporated	0.7%
PowerStream Inc.	6.6%
PUC Distribution Inc.	0.9%
Renfrew Hydro Inc.	0.1%
Rideau St. Lawrence Distribution Inc.	0.1%
Sioux Lookout Hydro Inc.	0.1%
St. Thomas Energy Inc.	0.3%
Thunder Bay Hydro Electricity Distribution Inc.	0.9%
Tillsonburg Hydro Inc.	0.1%
Toronto Hydro-Electric System Limited	12.8%
Veridian Connections Inc.	2.4%
Wasaga Distribution Inc.	0.2%
Waterloo North Hydro Inc.	1.0%
Welland Hydro-Electric System Corp.	0.4%
Wellington North Power Inc.	0.1%
West Coast Huron Energy Inc.	0.1%
Westario Power Inc.	0.5%
Whitby Hydro Electric Corporation	0.9%
Woodstock Hydro Services Inc.	0.3%

## Reporting Glossary

**Annual:** the peak demand or energy savings that occur in a given year (includes resource savings from new program activity and resource savings persisting from previous years).

**Cumulative Energy Savings:** represents the sum of the annual energy savings that accrue over a defined period (in the context of this report the defined period is 2011 - 2014). This concept does not apply to peak demand savings.

**End-User Level:** resource savings in this report are measured at the customer level as opposed to the generator level (the difference being line losses).

**Free-ridership:** the percentage of participants who would have implemented the program measure or practice in the absence of the program.

**Incremental:** the new resource savings attributable to activity procured in a particular reporting period based on when the savings are considered to 'start'.

**Initiative:** a Conservation & Demand Management offering focusing on a particular opportunity or customer end-use (i.e. Retrofit, Fridge & Freezer Pickup).

**Net-to-Gross Ratio:** The ratio of net savings to gross savings, which takes into account factors such as free-ridership and spillover

**Net Energy Savings (MWh):** energy savings attributable to conservation and demand management activities net of free-riders, etc.

**Net Peak Demand Savings (MW):** peak demand savings attributable to conservation and demand management activities net of free-riders, etc.

**Program:** a group of initiatives that target a particular market sector (e.g. Consumer, Industrial).

**Realization Rate:** A comparison of observed or measured (evaluated) information to original reported savings which is used to adjust the gross savings estimates.

**Settlement Account:** the grouping of demand response facilities (contributors) into one contractual agreement

**Spillover:** Reductions in energy consumption and/or demand caused by the presence of the energy efficiency program, beyond the program-related gross savings of the participants. There can be participant and/or non-participant spillover.

**Unit:** for a specific initiative the relevant type of activity acquired in the market place (i.e. appliances picked up, projects completed, coupons redeemed).

Table 11: Waterloo North Hydro Inc. Initiative and Program Level Gross Savings by Year

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
<b>Consumer Program</b>									
Appliance Retirement**	Appliances	49	14	21	26	359,259	99,292	135,218	169,628
Appliance Exchange**	Appliances	5	11	25	56	5,919	18,832	44,220	99,672
HVAC Incentives	Equipment	691	512	494	621	1,292,287	893,954	855,951	1,145,708
Conservation Instant Coupon Booklet	Items	10	2	5	25	169,297	13,284	68,551	300,894
Bi-Annual Retailer Event	Items	15	16	11	46	269,499	292,770	164,723	703,866
Retailer Co-op	Items	0	0	0	0	0	0	0	0
Residential Demand Response	Devices	72	0	196	365	0	0	652	0
Residential Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	0	0	0	0	0	0	0
<b>Consumer Program Total</b>		<b>842</b>	<b>556</b>	<b>751</b>	<b>1,140</b>	<b>2,096,261</b>	<b>1,318,132</b>	<b>1,269,315</b>	<b>2,419,768</b>
<b>Business Program</b>									
Retrofit	Projects	372	1,099	797	1,190	1,949,090	6,430,988	4,340,396	7,061,007
Direct Install Lighting	Projects	231	110	121	100	664,665	369,939	433,193	370,213
Building Commissioning	Buildings	0	0	0	0	0	0	0	0
New Construction	Buildings	0	8	1	56	0	24,046	1,939	273,975
Energy Audit	Audits	0	36	430	119	0	176,234	2,345,942	583,668
Small Commercial Demand Response	Devices	5	0	6	8	0	0	10	0
Small Commercial Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	111	111	113	104	4,323	1,614	1,504	0
<b>Business Program Total</b>		<b>719</b>	<b>1,364</b>	<b>1,468</b>	<b>1,578</b>	<b>2,618,079</b>	<b>7,002,822</b>	<b>7,122,984</b>	<b>8,288,864</b>
<b>Industrial Program</b>									
Process & System Upgrades	Projects	0	0	0	0	0	0	0	0
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0
Energy Manager	Projects	0	0	0	26	0	0	0	101,808
Retrofit	Projects	249	0	0	0	1,453,318	0	0	0
Demand Response 3	Facilities	392	1,260	1,151	1,081	23,003	30,360	30,917	0
<b>Industrial Program Total</b>		<b>641</b>	<b>1,260</b>	<b>1,151</b>	<b>1,107</b>	<b>1,476,321</b>	<b>30,360</b>	<b>30,917</b>	<b>101,808</b>
<b>Home Assistance Program</b>									
Home Assistance Program	Homes	0	2	12	4	0	25,825	170,106	48,046
<b>Home Assistance Program Total</b>		<b>0</b>	<b>2</b>	<b>12</b>	<b>4</b>	<b>0</b>	<b>25,825</b>	<b>170,106</b>	<b>48,046</b>
<b>Aboriginal Program</b>									
Home Assistance Program	Homes	0	0	0	0	0	0	0	0
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0
<b>Aboriginal Program Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Pre-2011 Programs completed in 2011</b>									
Electricity Retrofit Incentive Program	Projects	346	0	0	0	1,742,736	0	0	0
High Performance New Construction	Projects	363	43	0	0	1,865,774	210,767	0	0
Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0
LDC Custom Programs	Projects	0	0	0	0	0	0	0	0
<b>Pre-2011 Programs completed in 2011 Total</b>		<b>709</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>3,608,510</b>	<b>210,767</b>	<b>0</b>	<b>0</b>
<b>Other</b>									
Program Enabled Savings	Projects	0	0	0	89	0	0	0	125,622
Time-of-Use Savings	Homes	0	0	0	651	0	0	0	0
LDC Pilots	Projects	0	0	0	0	0	0	0	0
<b>Other Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>739</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>125,622</b>
<b>Adjustments to 2011 Verified Results</b>			<b>290</b>	<b>0</b>	<b>1</b>		<b>156,341</b>	<b>0</b>	<b>5,402</b>
<b>Adjustments to 2012 Verified Results</b>				<b>81</b>	<b>122</b>			<b>439,367</b>	<b>714,506</b>
<b>Adjustments to 2013 Verified Results</b>					<b>415</b>				<b>1,288,369</b>
<b>Energy Efficiency Total</b>		<b>2,330</b>	<b>1,854</b>	<b>1,916</b>	<b>3,009</b>	<b>9,771,844</b>	<b>8,555,931</b>	<b>8,560,238</b>	<b>10,984,107</b>
<b>Demand Response Total</b>		<b>580</b>	<b>1,371</b>	<b>1,466</b>	<b>1,559</b>	<b>27,327</b>	<b>31,974</b>	<b>33,083</b>	<b>0</b>
<b>Adjustments to Previous Years' Verified Results Total</b>		<b>0</b>	<b>290</b>	<b>81</b>	<b>538</b>	<b>0</b>	<b>156,341</b>	<b>439,367</b>	<b>2,008,277</b>
<b>OPA-Contracted LDC Portfolio Total (inc. Adjustments)</b>		<b>2,910</b>	<b>3,515</b>	<b>3,463</b>	<b>5,106</b>	<b>9,799,171</b>	<b>8,744,246</b>	<b>9,032,688</b>	<b>12,992,383</b>

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

\*Includes adjustments after Final Reports were issued  
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results  
\*\*Net results substituted for gross results due to unavailability of data

Table 12: Adjustments to Waterloo North Hydro Inc. Gross Verified Results due to Variances

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
<b>Consumer Program</b>									
Appliance Retirement	Appliances	0	0	0		0	0	0	
Appliance Exchange	Appliances	0	0	0		0	0	0	
HVAC Incentives	Equipment	-111	13	22		-204,642	23,715	39,112	
Conservation Instant Coupon Booklet	Items	0	0	0		2,565	0	207	
Bi-Annual Retailer Event	Items	1	0	0		23,781	0	0	
Retailer Co-op	Items	0	0	0		0	0	0	
Residential Demand Response	Devices	0	0	0		0	0	0	
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0	
Residential New Construction	Homes	0	0	0		0	0	0	
<b>Consumer Program Total</b>		<b>-109</b>	<b>13</b>	<b>22</b>		<b>-178,296</b>	<b>23,715</b>	<b>39,319</b>	
<b>Business Program</b>									
Retrofit	Projects	0	63	283		0	1,088,649	931,863	
Direct Install Lighting	Projects	9	0	0		20,111	0	0	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	0	0	37		0	3,057	14,430	
Energy Audit	Audits	16	5	41		75,529	35,244	221,634	
Small Commercial Demand Response	Devices	0	0	0		0	0	0	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
<b>Business Program Total</b>		<b>25</b>	<b>69</b>	<b>360</b>		<b>95,639</b>	<b>1,126,950</b>	<b>1,167,927</b>	
<b>Industrial Program</b>									
Process & System Upgrades	Projects	0	0	0		0	0	0	
Monitoring & Targeting	Projects	0	0	0		0	0	0	
Energy Manager	Projects	0	0	37		0	0	77,000	
Retrofit	Projects	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
<b>Industrial Program Total</b>		<b>0</b>	<b>0</b>	<b>37</b>		<b>0</b>	<b>0</b>	<b>77,000</b>	
<b>Home Assistance Program</b>									
Home Assistance Program	Homes	0	0	2		0	3,238	18,599	
<b>Home Assistance Program Total</b>		<b>0</b>	<b>0</b>	<b>2</b>		<b>0</b>	<b>3,238</b>	<b>18,599</b>	
<b>Aboriginal Program</b>									
Home Assistance Program	Homes	0	0	0		0	0	0	
Direct Install Lighting	Projects	0	0	0		0	0	0	
<b>Aboriginal Program Total</b>		<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	
<b>Pre-2011 Programs completed in 2011</b>									
Electricity Retrofit Incentive Program	Projects	0	0	0		0	0	0	
High Performance New Construction	Projects	374	0	0		238,998	0	0	
Toronto Comprehensive	Projects	0	0	0		0	0	0	
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0	
LDC Custom Programs	Projects	0	0	0		0	0	0	
<b>Pre-2011 Programs completed in 2011 Total</b>		<b>374</b>	<b>0</b>	<b>0</b>		<b>238,998</b>	<b>0</b>	<b>0</b>	
<b>Other</b>									
Program Enabled Savings	Projects	0	0	0		0	0	0	
Time-of-Use Savings	Homes	0	0	0		0	0	0	
LDC Pilots	Projects	0	0	0		0	0	0	
<b>Other Total</b>		<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	
<b>Adjustments to 2011 Verified Results</b>		<b>290</b>				<b>156,341</b>			
<b>Adjustments to 2012 Verified Results</b>			<b>81</b>				<b>1,153,903</b>		
<b>Adjustments to 2013 Verified Results</b>				<b>421</b>				<b>1,302,845</b>	
<b>Total Adjustments to Previous Years' Verified Results</b>		<b>290</b>	<b>81</b>	<b>421</b>		<b>156,341</b>	<b>1,153,903</b>	<b>1,302,845</b>	

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results



Table 13: Province-Wide Initiatives and Program Level Gross Savings by Year

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
<b>Consumer Program</b>									
Appliance Retirement**	Appliances	6,750	2,011	3,151	3,579	45,971,627	13,424,518	18,616,239	20,315,770
Appliance Exchange**	Appliances	719	556	2,101	2,238	873,531	974,621	3,746,106	3,990,372
HVAC Incentives	Equipment	53,209	38,346	40,418	48,467	99,413,430	66,929,213	71,225,037	90,274,814
Conservation Instant Coupon Booklet	Items	1,184	231	464	1,442	19,192,453	1,325,898	6,842,244	19,000,254
Bi-Annual Retailer Event	Items	1,504	1,622	1,142	4,626	26,899,265	29,222,072	16,441,329	70,254,471
Retailer Co-op	Items	0	0	0	0	3,917	0	0	0
Residential Demand Response	Devices	10,390	49,038	93,076	117,513	23,597	359,408	390,303	8,379
Residential Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	1	29	587	1,813	4,884	259,826	3,699,786
<b>Consumer Program Total</b>		<b>73,757</b>	<b>91,805</b>	<b>140,380</b>	<b>178,452</b>	<b>192,379,633</b>	<b>112,240,615</b>	<b>117,521,084</b>	<b>207,543,846</b>
<b>Business Program</b>									
Retrofit	Projects	34,201	78,965	82,896	98,849	184,070,265	387,817,248	478,410,896	642,515,421
Direct Install Lighting	Projects	22,155	20,469	19,807	24,794	65,777,197	68,896,046	68,140,249	89,528,509
Building Commissioning	Buildings	0	0	0	988	0	0	0	1,513,377
New Construction	Buildings	247	1,596	2,934	11,911	823,434	3,755,869	9,183,826	37,742,970
Energy Audit	Audits	0	1,450	4,283	9,367	0	7,049,351	23,386,108	46,012,517
Small Commercial Demand Response	Devices	55	187	773	2,116	131	1,068	373	319
Small Commercial Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	21,390	19,389	23,706	23,380	633,421	281,823	346,659	0
<b>Business Program Total</b>		<b>78,048</b>	<b>122,056</b>	<b>134,399</b>	<b>171,405</b>	<b>251,304,448</b>	<b>467,801,406</b>	<b>579,468,111</b>	<b>817,313,113</b>
<b>Industrial Program</b>									
Process & System Upgrades	Projects	0	0	313	12,287	0	0	2,799,746	90,463,617
Monitoring & Targeting	Projects	0	0	0	102	0	0	0	502,517
Energy Manager	Projects	0	1,034	3,953	5,767	0	7,067,535	24,438,070	44,929,364
Retrofit	Projects	6,372	0	0	0	38,412,408	0	0	0
Demand Response 3	Facilities	176,180	74,056	162,543	166,082	4,243,958	1,784,712	4,309,160	0
<b>Industrial Program Total</b>		<b>182,552</b>	<b>75,090</b>	<b>166,809</b>	<b>184,238</b>	<b>42,656,366</b>	<b>8,852,247</b>	<b>31,546,976</b>	<b>135,895,498</b>
<b>Home Assistance Program</b>									
Home Assistance Program	Homes	4	1,777	2,361	2,466	56,119	5,524,230	20,987,275	19,582,658
<b>Home Assistance Program Total</b>		<b>4</b>	<b>1,777</b>	<b>2,361</b>	<b>2,466</b>	<b>56,119</b>	<b>5,524,230</b>	<b>20,987,275</b>	<b>19,582,658</b>
<b>Aboriginal Program</b>									
Home Assistance Program	Homes	0	0	267	549	0	0	1,609,393	3,101,207
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0
<b>Aboriginal Program Total</b>		<b>0</b>	<b>0</b>	<b>267</b>	<b>549</b>	<b>0</b>	<b>0</b>	<b>1,609,393</b>	<b>3,101,207</b>
<b>Pre-2011 Programs completed in 2011</b>									
Electricity Retrofit Incentive Program	Projects	40,418	0	0	0	223,956,390	0	0	0
High Performance New Construction	Projects	10,197	6,501	772	268	52,371,183	23,803,888	3,522,240	1,377,475
Toronto Comprehensive	Projects	33,467	0	0	802	174,070,574	0	0	7,085,257
Multifamily Energy Efficiency Rebates	Projects	2,553	0	0	0	9,774,792	0	0	0
LDC Custom Programs	Projects	534	0	0	0	649,140	0	0	0
<b>Pre-2011 Programs completed in 2011 Total</b>		<b>87,169</b>	<b>6,501</b>	<b>772</b>	<b>1,070</b>	<b>460,822,079</b>	<b>23,803,888</b>	<b>3,522,240</b>	<b>8,462,733</b>
<b>Other</b>									
Program Enabled Savings	Projects	0	2,177	3,692	5,500	0	525,011	4,075,382	19,035,337
Time-of-Use Savings	Homes	0	0	0	54,795	0	0	0	0
LDC Pilots	Projects	0	0	0	1,170	0	0	0	5,061,522
<b>Other Total</b>		<b>0</b>	<b>2,177</b>	<b>3,692</b>	<b>60,296</b>	<b>0</b>	<b>525,011</b>	<b>4,075,382</b>	<b>19,035,337</b>
<b>Adjustments to 2011 Verified Results</b>									
			13,266	645	1,601				
<b>Adjustments to 2012 Verified Results</b>									
				8,632	13,449				
<b>Adjustments to 2013 Verified Results</b>									
					34,727				
<b>Energy Efficiency Total</b>									
		213,515	156,735	168,583	289,384	942,317,539	616,320,385	753,683,966	1,210,925,694
<b>Demand Response Total</b>									
		208,015	142,670	280,099	309,091	4,901,107	2,427,011	5,046,495	8,698
<b>Adjustments to Previous Years' Verified Results Total</b>									
		0	13,266	9,277	49,777	0	48,705,294	54,322,474	265,518,125
<b>OPA-Contracted LDC Portfolio Total (inc. Adjustments)</b>									
		421,530	312,671	457,958	648,252	947,218,646	667,452,690	813,052,934	1,476,452,516

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results  
 \*\*Net results substituted for gross results due to unavailability of data

Table 14: Adjustments to Province-Wide Gross Verified Results due to Variances

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
<b>Consumer Program</b>									
Appliance Retirement	Appliances	0	0	0		0	0	0	
Appliance Exchange	Appliances	0	0	0		0	0	0	
HVAC Incentives	Equipment	-8,759	1,091	2,157		-16,241,086	1,952,473	3,873,449	
Conservation Instant Coupon Booklet	Items	15	0	1		255,975	0	20,668	
Bi-Annual Retailer Event	Items	117	0	0		2,373,616	0	0	
Retailer Co-op	Items	0	0	0		0	0	0	
Residential Demand Response	Devices	0	0	0		0	0	0	
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0	
Residential New Construction	Homes	1	1	115		330,093	2,009	701,488	
<b>Consumer Program Total</b>		<b>-8,628</b>	<b>1,092</b>	<b>2,273</b>		<b>-13,281,402</b>	<b>1,954,483</b>	<b>4,595,605</b>	
<b>Business Program</b>									
Retrofit	Projects	4,511	10,114	16,584		22,046,931	58,528,789	108,677,566	
Direct Install Lighting	Projects	541	217	49		1,346,618	781,858	174,460	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	3,287	2,673	4,151		11,323,593	9,884,305	15,992,924	
Energy Audit	Audits	656	488	3,631		2,391,744	2,386,374	19,822,524	
Small Commercial Demand Response	Devices	0	0	0		0	0	0	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
<b>Business Program Total</b>		<b>8,996</b>	<b>13,491</b>	<b>24,414</b>		<b>37,108,886</b>	<b>71,581,326</b>	<b>144,667,473</b>	
<b>Industrial Program</b>									
Process & System Upgrades	Projects	0	0	426		0	0	1,232,785	
Monitoring & Targeting	Projects	0	0	54		0	528,000	639,348	
Energy Manager	Projects	29	1,071	2,687		0	8,968,007	28,893,596	
Retrofit	Projects	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
<b>Industrial Program Total</b>		<b>29</b>	<b>1,071</b>	<b>3,168</b>		<b>0</b>	<b>9,496,007</b>	<b>30,765,729</b>	
<b>Home Assistance Program</b>									
Home Assistance Program	Homes	0	222	791		0	1,316,749	4,321,794	
<b>Home Assistance Program Total</b>		<b>0</b>	<b>222</b>	<b>791</b>		<b>0</b>	<b>1,316,749</b>	<b>4,321,794</b>	
<b>Aboriginal Program</b>									
Home Assistance Program	Homes	0	0	134		0	0	563,715	
Direct Install Lighting	Projects	0	0	0		0	0	0	
<b>Aboriginal Program Total</b>		<b>0</b>	<b>0</b>	<b>134</b>		<b>0</b>	<b>0</b>	<b>563,715</b>	
<b>Pre-2011 Programs completed in 2011</b>									
Electricity Retrofit Incentive Program	Projects	266	0	0		1,049,108	0	0	
High Performance New Construction	Projects	13,072	727	405		23,905,663	5,665,066	1,535,048	
Toronto Comprehensive	Projects	0	1,920	529		0	12,924,335	3,783,965	
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0	
LDC Custom Programs	Projects	0	0	0		0	0	0	
<b>Pre-2011 Programs completed in 2011 Total</b>		<b>13,337</b>	<b>2,647</b>	<b>934</b>		<b>24,954,771</b>	<b>18,589,400</b>	<b>5,319,013</b>	
<b>Other</b>									
Program Enabled Savings	Projects	1,776	3,712	2,020		1,673,712	11,481,687	10,688,564	
Time-of-Use Savings	Homes	0	0	0		0	0	0	
LDC Pilots	Projects	0	0	0		0	0	0	
<b>Other Total</b>		<b>1,776</b>	<b>3,712</b>	<b>2,020</b>		<b>1,673,712</b>	<b>11,481,687</b>	<b>10,688,564</b>	
<b>Adjustments to 2011 Verified Results</b>		<b>15,511</b>				<b>50,455,967</b>			
<b>Adjustments to 2012 Verified Results</b>			<b>22,235</b>				<b>114,419,652</b>		
<b>Adjustments to 2013 Verified Results</b>				<b>33,734</b>				<b>200,921,892</b>	
<b>Adjustments to Previous Years' Verified Results Total</b>		<b>15,511</b>	<b>22,235</b>	<b>33,734</b>		<b>50,455,967</b>	<b>114,419,652</b>	<b>200,921,892</b>	

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

\*Includes adjustments after Final Reports were issued  
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results

# **Attachment F**

## **Revenue Requirement Work Form 2016 Cost of Service**



Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2016 Filers



Version 6.00

Utility Name	Waterloo North Hydro Inc.
Service Territory	
Assigned EB Number	EB-2015-0108
Name and Title	Albert P. Singh, VP Finance & CFO
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Ontario Energy Board

# Revenue Requirement Workform (RRWF) for 2016 Filers

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**Notes:**

- (1) Pale green cells represent inputs
- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) **Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.**
- (5) **Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel**



# Revenue Requirement Workform (RRWF) for 2016 Filers

Data Input <sup>(1)</sup>

	Initial Application	(2) Adjustments	Settlement Agreement	(6) Adjustments	Per Board Decision
<b>1 Rate Base</b>					
Gross Fixed Assets (average)	\$340,984,238	(\$69,178)	\$ 340,915,060		\$340,915,060
Accumulated Depreciation (average)	(\$146,617,357)	\$64,996	(\$146,552,361)		(\$146,552,361)
<b>Allowance for Working Capital:</b>					
Controllable Expenses	\$13,457,054	\$18,587	\$ 13,475,640		\$13,475,640
Cost of Power	\$164,326,495	\$12,804,774	\$ 177,131,269		\$177,131,269
Working Capital Rate (%)	13.00%	(9)	7.50%	(9)	7.50% (9)
<b>2 Utility Income</b>					
<b>Operating Revenues:</b>					
Distribution Revenue at Current Rates	\$31,257,951	\$411,550	\$31,669,501	\$0	\$31,669,501
Distribution Revenue at Proposed Rates	\$35,412,468	(\$1,655,740)	\$33,756,728	\$0	\$33,756,728
<b>Other Revenue:</b>					
Specific Service Charges	\$242,900	\$0	\$242,900	\$0	\$242,900
Late Payment Charges	\$315,500	\$0	\$315,500	\$0	\$315,500
Other Distribution Revenue	\$445,683	\$40,000	\$485,683	\$0	\$485,683
Other Income and Deductions	\$177,523	\$1,990	\$179,513	\$0	\$179,513
Total Revenue Offsets	\$1,181,606	(7) \$41,990	\$1,223,596	\$0	\$1,223,596
<b>Operating Expenses:</b>					
OM+A Expenses	\$13,721,334	(\$562,000)	\$ 13,159,334		\$13,159,334
Depreciation/Amortization	\$8,151,672	(\$73,824)	\$ 8,077,849		\$8,077,849
Property taxes	\$489,734		\$ 489,734		\$489,734
Other expenses					
<b>3 Taxes/PILs</b>					
<b>Taxable Income:</b>					
Adjustments required to arrive at taxable income	(\$5,334,266)	(3)	(\$5,242,884)		(\$5,242,884)
<b>Utility Income Taxes and Rates:</b>					
Income taxes (not grossed up)	\$590,804		\$503,738		\$503,738
Income taxes (grossed up)	\$803,815		\$685,358		\$685,358
Federal tax (%)	15.00%		15.00%		15.00%
Provincial tax (%)	11.50%		11.50%		11.50%
Income Tax Credits	(\$139,521)		(\$139,521)		(\$139,521)
<b>4 Capitalization/Cost of Capital</b>					
<b>Capital Structure:</b>					
Long-term debt Capitalization Ratio (%)	56.0%		56.0%		56.0%
Short-term debt Capitalization Ratio (%)	4.0%	(8)	4.0%	(8)	4.0% (8)
Common Equity Capitalization Ratio (%)	40.0%		40.0%		40.0%
Preferred Shares Capitalization Ratio (%)					
	100.0%		100.0%		100.0%
<b>Cost of Capital</b>					
Long-term debt Cost Rate (%)	4.23%		4.07%		4.07%
Short-term debt Cost Rate (%)	2.16%		1.65%		1.65%
Common Equity Cost Rate (%)	9.30%		9.19%		9.19%
Preferred Shares Cost Rate (%)					

Notes:

- General** Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.
- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
  - (2) Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
  - (3) Net of addbacks and deductions to arrive at taxable income.
  - (4) Average of Gross Fixed Assets at beginning and end of the Test Year
  - (5) Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
  - (6) Select option from drop-down list by clicking on cell M10. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
  - (7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
  - (8) 4.0% unless an Applicant has proposed or been approved for another amount.
  - (9) The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, WCA factor based on lead-lag study or approved WCA factor for another distributor, with supporting rationale.



# Revenue Requirement Workform (RRWF) for 2016 Filers

## Rate Base and Working Capital

Line No.	Rate Base Particulars		Initial Application	Adjustments	Settlement Agreement	Adjustments	Per Board Decision
1	Gross Fixed Assets (average)	(3)	\$340,984,238	(\$69,178)	\$340,915,060	\$ -	\$340,915,060
2	Accumulated Depreciation (average)	(3)	(\$146,617,357)	\$64,996	(\$146,552,361)	\$ -	(\$146,552,361)
3	Net Fixed Assets (average)	(3)	\$194,366,880	(\$4,182)	\$194,362,699	\$ -	\$194,362,699
4	Allowance for Working Capital	(1)	\$23,111,861	(\$8,816,343)	\$14,295,518	\$ -	\$14,295,518
5	<b>Total Rate Base</b>		<b>\$217,478,742</b>	<b>(\$8,820,525)</b>	<b>\$208,658,217</b>	<b>\$ -</b>	<b>\$208,658,217</b>

### (1) Allowance for Working Capital - Derivation

6	Controllable Expenses		\$13,457,054	\$18,587	\$13,475,640	\$ -	\$13,475,640
7	Cost of Power		\$164,326,495	\$12,804,774	\$177,131,269	\$ -	\$177,131,269
8	Working Capital Base		\$177,783,549	\$12,823,360	\$190,606,909	\$ -	\$190,606,909
9	Working Capital Rate %	(2)	13.00%	-5.50%	7.50%	0.00%	7.50%
10	Working Capital Allowance		\$23,111,861	(\$8,816,343)	\$14,295,518	\$ -	\$14,295,518

### Notes

- (2) Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2016 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015. Alternatively, a utility could conduct and file its own lead-lag study.
- (3) Average of opening and closing balances for the year.



# Revenue Requirement Workform (RRWF) for 2016 Filers

## Utility Income

Line No.	Particulars	Initial Application	Adjustments	Settlement Agreement	Adjustments	Per Board Decision
<b>Operating Revenues:</b>						
1	Distribution Revenue (at Proposed Rates)	\$35,412,468	(\$1,655,740)	\$33,756,728	\$ -	\$33,756,728
2	Other Revenue (1)	\$1,181,606	\$41,990	\$1,223,596	\$ -	\$1,223,596
3	<b>Total Operating Revenues</b>	<b>\$36,594,074</b>	<b>(\$1,613,750)</b>	<b>\$34,980,324</b>	<b>\$ -</b>	<b>\$34,980,324</b>
<b>Operating Expenses:</b>						
4	OM+A Expenses	\$13,721,334	(\$562,000)	\$13,159,334	\$ -	\$13,159,334
5	Depreciation/Amortization	\$8,151,672	(\$73,824)	\$8,077,849	\$ -	\$8,077,849
6	Property taxes	\$489,734	\$ -	\$489,734	\$ -	\$489,734
7	Capital taxes	\$ -	\$ -	\$ -	\$ -	\$ -
8	Other expense	\$ -	\$ -	\$ -	\$ -	\$ -
9	<b>Subtotal (lines 4 to 8)</b>	<b>\$22,362,740</b>	<b>(\$635,824)</b>	<b>\$21,726,916</b>	<b>\$ -</b>	<b>\$21,726,916</b>
10	Deemed Interest Expense	\$5,337,309	(\$439,536)	\$4,897,773	\$ -	\$4,897,773
11	<b>Total Expenses (lines 9 to 10)</b>	<b>\$27,700,049</b>	<b>(\$1,075,360)</b>	<b>\$26,624,689</b>	<b>\$ -</b>	<b>\$26,624,689</b>
12	<b>Utility income before income taxes</b>	<b>\$8,894,025</b>	<b>(\$538,390)</b>	<b>\$8,355,635</b>	<b>\$ -</b>	<b>\$8,355,635</b>
13	Income taxes (grossed-up)	\$803,815	(\$118,457)	\$685,358	\$ -	\$685,358
14	<b>Utility net income</b>	<b>\$8,090,210</b>	<b>(\$419,933)</b>	<b>\$7,670,276</b>	<b>\$ -</b>	<b>\$7,670,276</b>

### Notes

#### Other Revenues / Revenue Offsets

(1)	Specific Service Charges	\$242,900	\$ -	\$242,900	\$ -	\$242,900
	Late Payment Charges	\$315,500	\$ -	\$315,500	\$ -	\$315,500
	Other Distribution Revenue	\$445,683	\$40,000	\$485,683	\$ -	\$485,683
	Other Income and Deductions	\$177,523	\$1,990	\$179,513	\$ -	\$179,513
	<b>Total Revenue Offsets</b>	<b>\$1,181,606</b>	<b>\$41,990</b>	<b>\$1,223,596</b>	<b>\$ -</b>	<b>\$1,223,596</b>





# Revenue Requirement Workform (RRWF) for 2016 Filers

**Taxes/PILs**

Line No.	Particulars	Application	Settlement Agreement	Per Board Decision
<b>Determination of Taxable Income</b>				
1	Utility net income before taxes	\$8,090,209	\$7,670,276	\$7,670,276
2	Adjustments required to arrive at taxable utility income	(\$5,334,266)	(\$5,242,884)	(\$5,242,884)
3	Taxable income	<u>\$2,755,943</u>	<u>\$2,427,393</u>	<u>\$2,427,393</u>
<b>Calculation of Utility income Taxes</b>				
4	Income taxes	\$590,804	\$503,738	\$503,738
6	Total taxes	<u>\$590,804</u>	<u>\$503,738</u>	<u>\$503,738</u>
7	Gross-up of Income Taxes	\$213,011	\$181,620	\$181,620
8	Grossed-up Income Taxes	<u>\$803,815</u>	<u>\$685,358</u>	<u>\$685,358</u>
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	<u>\$803,815</u>	<u>\$685,358</u>	<u>\$685,358</u>
10	Other tax Credits	(\$139,521)	(\$139,521)	(\$139,521)
<b>Tax Rates</b>				
11	Federal tax (%)	15.00%	15.00%	15.00%
12	Provincial tax (%)	11.50%	11.50%	11.50%
13	Total tax rate (%)	<u>26.50%</u>	<u>26.50%</u>	<u>26.50%</u>

**Notes**



# Revenue Requirement Workform (RRWF) for 2016 Filers

## Capitalization/Cost of Capital

Line No.	Particulars	Capitalization Ratio		Cost Rate	Return
<b>Initial Application</b>					
		(%)	(\$)	(%)	(\$)
	<b>Debt</b>				
1	Long-term Debt	56.00%	\$121,788,095	4.23%	\$5,149,408
2	Short-term Debt	4.00%	\$8,699,150	2.16%	\$187,902
3	<b>Total Debt</b>	<b>60.00%</b>	<b>\$130,487,245</b>	<b>4.09%</b>	<b>\$5,337,309</b>
	<b>Equity</b>				
4	Common Equity	40.00%	\$86,991,497	9.30%	\$8,090,209
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	<b>Total Equity</b>	<b>40.00%</b>	<b>\$86,991,497</b>	<b>9.30%</b>	<b>\$8,090,209</b>
7	<b>Total</b>	<b>100.00%</b>	<b>\$217,478,742</b>	<b>6.17%</b>	<b>\$13,427,518</b>
<b>Settlement Agreement</b>					
		(%)	(\$)	(%)	(\$)
	<b>Debt</b>				
1	Long-term Debt	56.00%	\$116,848,602	4.07%	\$4,760,058
2	Short-term Debt	4.00%	\$8,346,329	1.65%	\$137,714
3	<b>Total Debt</b>	<b>60.00%</b>	<b>\$125,194,930</b>	<b>3.91%</b>	<b>\$4,897,773</b>
	<b>Equity</b>				
4	Common Equity	40.00%	\$83,463,287	9.19%	\$7,670,276
5	Preferred Shares	0.00%	\$ -	0.00%	\$ -
6	<b>Total Equity</b>	<b>40.00%</b>	<b>\$83,463,287</b>	<b>9.19%</b>	<b>\$7,670,276</b>
7	<b>Total</b>	<b>100.00%</b>	<b>\$208,658,217</b>	<b>6.02%</b>	<b>\$12,568,049</b>
<b>Per Board Decision</b>					
		(%)	(\$)	(%)	(\$)
	<b>Debt</b>				
8	Long-term Debt	56.00%	\$116,848,602	4.07%	\$4,760,058
9	Short-term Debt	4.00%	\$8,346,329	1.65%	\$137,714
10	<b>Total Debt</b>	<b>60.00%</b>	<b>\$125,194,930</b>	<b>3.91%</b>	<b>\$4,897,773</b>
	<b>Equity</b>				
11	Common Equity	40.00%	\$83,463,287	9.19%	\$7,670,276
12	Preferred Shares	0.00%	\$ -	0.00%	\$ -
13	<b>Total Equity</b>	<b>40.00%</b>	<b>\$83,463,287</b>	<b>9.19%</b>	<b>\$7,670,276</b>
14	<b>Total</b>	<b>100.00%</b>	<b>\$208,658,217</b>	<b>6.02%</b>	<b>\$12,568,049</b>

### Notes

(1)

Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I



# Revenue Requirement Workform (RRWF) for 2016 Filers

## Revenue Deficiency/Sufficiency

Line No.	Particulars	Initial Application		Settlement Agreement		Per Board Decision	
		At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates
1	Revenue Deficiency from Below		\$4,154,517		\$2,087,227		\$2,087,227
2	Distribution Revenue	\$31,257,951	\$31,257,951	\$31,669,501	\$31,669,501	\$31,669,501	\$31,669,501
3	Other Operating Revenue Offsets - net	\$1,181,606	\$1,181,606	\$1,223,596	\$1,223,596	\$1,223,596	\$1,223,596
4	<b>Total Revenue</b>	<b>\$32,439,557</b>	<b>\$36,594,074</b>	<b>\$32,893,097</b>	<b>\$34,980,324</b>	<b>\$32,893,097</b>	<b>\$34,980,324</b>
5	Operating Expenses	\$22,362,740	\$22,362,740	\$21,726,916	\$21,726,916	\$21,726,916	\$21,726,916
6	Deemed Interest Expense	\$5,337,309	\$5,337,309	\$4,897,773	\$4,897,773	\$4,897,773	\$4,897,773
8	<b>Total Cost and Expenses</b>	<b>\$27,700,049</b>	<b>\$27,700,049</b>	<b>\$26,624,689</b>	<b>\$26,624,689</b>	<b>\$26,624,689</b>	<b>\$26,624,689</b>
9	<b>Utility Income Before Income Taxes</b>	\$4,739,508	\$8,894,025	\$6,268,408	\$8,355,635	\$6,268,408	\$8,355,635
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$5,334,266)	(\$5,334,266)	(\$5,242,884)	(\$5,242,884)	(\$5,242,884)	(\$5,242,884)
11	<b>Taxable Income</b>	<b>(\$594,759)</b>	\$3,559,759	\$1,025,524	\$3,112,751	\$1,025,524	\$3,112,751
12	Income Tax Rate	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
13	<b>Income Tax on Taxable Income</b>	<b>(\$157,611)</b>	\$943,336	\$271,764	\$824,879	\$271,764	\$824,879
14	<b>Income Tax Credits</b>	<b>(\$139,521)</b>	<b>(\$139,521)</b>	<b>(\$139,521)</b>	<b>(\$139,521)</b>	<b>(\$139,521)</b>	<b>(\$139,521)</b>
15	<b>Utility Net Income</b>	<b>\$5,036,639</b>	<b>\$8,090,210</b>	<b>\$6,136,164</b>	<b>\$7,670,276</b>	<b>\$6,136,164</b>	<b>\$7,670,276</b>
16	<b>Utility Rate Base</b>	\$217,478,742	\$217,478,742	\$208,658,217	\$208,658,217	\$208,658,217	\$208,658,217
17	Deemed Equity Portion of Rate Base	\$86,991,497	\$86,991,497	\$83,463,287	\$83,463,287	\$83,463,287	\$83,463,287
18	Income/(Equity Portion of Rate Base)	5.79%	9.30%	7.35%	9.19%	7.35%	9.19%
19	Target Return - Equity on Rate Base	9.30%	9.30%	9.19%	9.19%	9.19%	9.19%
20	Deficiency/Sufficiency in Return on Equity	-3.51%	0.00%	-1.84%	0.00%	-1.84%	0.00%
21	Indicated Rate of Return	4.77%	6.17%	5.29%	6.02%	5.29%	6.02%
22	Requested Rate of Return on Rate Base	6.17%	6.17%	6.02%	6.02%	6.02%	6.02%
23	Deficiency/Sufficiency in Rate of Return	-1.40%	0.00%	-0.74%	0.00%	-0.74%	0.00%
24	Target Return on Equity	\$8,090,209	\$8,090,209	\$7,670,276	\$7,670,276	\$7,670,276	\$7,670,276
25	Revenue Deficiency/(Sufficiency)	\$3,053,570	\$0	\$1,534,112	\$0	\$1,534,112	\$0
26	<b>Gross Revenue Deficiency/(Sufficiency)</b>	<b>\$4,154,517 (1)</b>		<b>\$2,087,227 (1)</b>		<b>\$2,087,227 (1)</b>	

Notes:

(1) Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



# Revenue Requirement Workform (RRWF) for 2016 Filers

## Revenue Requirement

Line No.	Particulars	Application	Settlement Agreement	Per Board Decision
1	OM&A Expenses	\$13,721,334	\$13,159,334	\$13,159,334
2	Amortization/Depreciation	\$8,151,672	\$8,077,849	\$8,077,849
3	Property Taxes	\$489,734	\$489,734	\$489,734
5	Income Taxes (Grossed up)	\$803,815	\$685,358	\$685,358
6	Other Expenses	\$ -		
7	Return			
	Deemed Interest Expense	\$5,337,309	\$4,897,773	\$4,897,773
	Return on Deemed Equity	\$8,090,209	\$7,670,276	\$7,670,276
8	<b>Service Revenue Requirement (before Revenues)</b>	<u>\$36,594,074</u>	<u>\$34,980,324</u>	<u>\$34,980,324</u>
9	Revenue Offsets	\$1,181,606	\$1,223,596	\$1,223,596
10	<b>Base Revenue Requirement (excluding Tranformer Owership Allowance credit adjustment)</b>	<u>\$35,412,468</u>	<u>\$33,756,728</u>	<u>\$33,756,728</u>
11	Distribution revenue	\$35,412,468	\$33,756,728	\$33,756,728
12	Other revenue	\$1,181,606	\$1,223,596	\$1,223,596
13	<b>Total revenue</b>	<u>\$36,594,074</u>	<u>\$34,980,324</u>	<u>\$34,980,324</u>
14	<b>Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)</b>	<u>\$0 (1)</u>	<u>\$0 (1)</u>	<u>\$0 (1)</u>

**Notes**

(1) Line 11 - Line 8

# Revenue Requirement Workform (RRWF) for 2016 Filers

### Tracking Form

The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.) Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.  
 (1) Short reference to evidence material (Interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)  
 (2) Short description of change, issue, etc.

60 Tracking Rows have been provided below. If you require more, please contact Industry Relations @ [IndustryRelations@ontarioenergyboard.ca](mailto:IndustryRelations@ontarioenergyboard.ca).

### Summary of Proposed Changes

Reference <sup>(1)</sup>	Item / Description <sup>(2)</sup>	Cost of Capital		Rate Base and Capital Expenditures			Operating Expenses			Revenue Requirement			Grossed up Revenue Requirement / Sufficiency
		Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues	Base Revenue Requirement	
	Original Application	\$ 13,427,518	6.17%	\$ 217,478,742	\$ 177,783,549	\$ 23,111,861	\$ 8,151,672	\$ 803,815	\$ 13,721,334	\$ 36,594,074	\$ 1,181,606	\$ 35,412,468	\$ 4,154,517
1	Board Staff IR # 21 Change Working Capital Allowance % to 7.5%	\$ 19,829,802	6.17%	\$ 207,793,648	\$ 177,783,549	\$ 13,333,766	\$ 8,161,672	\$ 877,668	\$ 13,721,334	\$ 36,869,211	\$ 1,181,606	\$ 34,677,605	\$ 3,419,604
	Change	\$ 603,717	0.00%	\$ 9,793,099	\$ -	\$ 2,778,095	\$ -	\$ 131,146	\$ -	\$ 734,863	\$ -	\$ 734,863	\$ 734,863
2	VECC # 10 / EP # 14 / SEC # 37 Update 2015 & 2016 LRT Capital Additions	\$ 12,624,063	6.17%	\$ 208,142,711	\$ 177,783,549	\$ 13,333,766	\$ 8,172,436	\$ 687,598	\$ 13,721,334	\$ 35,926,168	\$ 1,181,606	\$ 34,743,559	\$ 3,465,608
	Change	\$ 50,262	0.00%	\$ 814,065	\$ -	\$ -	\$ 20,763	\$ 6,070	\$ -	\$ 65,954	\$ -	\$ 65,954	\$ 65,954
3	VECC # 10 / EP # 14 / SEC # 37 Update 2015 & 2016 All Other (Non-LRT) Capital Additions	\$ 12,634,847	6.17%	\$ 207,879,536	\$ 177,783,549	\$ 13,333,766	\$ 8,157,240	\$ 687,961	\$ 13,721,334	\$ 35,871,116	\$ 1,181,606	\$ 34,689,510	\$ 3,431,559
	Change	\$ 39,217	0.00%	\$ 635,174	\$ -	\$ -	\$ 15,194	\$ 362	\$ -	\$ 54,049	\$ -	\$ 54,049	\$ 54,049
4	1-Staff-149 Adjust Revenue Offset Appendix 2-FC	\$ 12,834,847	6.17%	\$ 207,879,536	\$ 177,783,549	\$ 13,333,766	\$ 8,157,240	\$ 687,961	\$ 13,721,334	\$ 35,871,116	\$ 1,183,596	\$ 34,687,520	\$ 3,429,589
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,990	\$ 1,990	\$ -	\$ 1,990
5	4-VECC-36 Increase Regulatory Expense - Board Costs	\$ 12,834,883	6.17%	\$ 207,880,298	\$ 177,793,549	\$ 13,334,516	\$ 8,157,240	\$ 687,971	\$ 13,731,334	\$ 35,881,172	\$ 1,183,596	\$ 34,697,576	\$ 3,439,625
	Change	\$ 46	0.00%	\$ 750	\$ 10,000	\$ -	\$ -	\$ 10	\$ 10,000	\$ 10,056	\$ -	\$ 10,056	\$ 10,056
6	1-Staff-22 & 1-Staff-24 Adjust RPP% Res <08 Update Naviant Acq/15 Price	\$ 12,881,291	6.17%	\$ 208,631,771	\$ 187,813,339	\$ 14,086,000	\$ 8,157,240	\$ 678,050	\$ 13,731,334	\$ 35,937,649	\$ 1,183,596	\$ 34,754,053	\$ 3,498,103
	Change	\$ 48,398	0.00%	\$ 751,484	\$ 10,019,790	\$ -	\$ -	\$ 10,079	\$ -	\$ 56,477	\$ -	\$ 56,477	\$ 56,477
7	3-Staff-99 & 3-Staff-131 Adjust Loss Factor in Load Forecast	\$ 12,881,291	6.17%	\$ 208,631,771	\$ 187,813,339	\$ 14,086,000	\$ 8,157,240	\$ 678,050	\$ 13,731,334	\$ 35,937,649	\$ 1,183,596	\$ 34,754,053	\$ 3,477,960
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,142
8	4-Energy Probe-40 & 43 Correct PILs - Depreciation in Burdens and Donations	\$ 12,881,291	6.17%	\$ 208,631,771	\$ 187,813,339	\$ 14,086,000	\$ 8,157,240	\$ 740,537	\$ 13,731,334	\$ 36,000,135	\$ 1,183,596	\$ 34,816,540	\$ 3,540,447
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ 62,486	\$ -	\$ 62,486	\$ -	\$ 62,486	\$ 62,486
9	JTC1-10 Correct Adjustment to Working Cap Allowance OM&A Ohv	\$ 12,883,979	6.17%	\$ 208,675,315	\$ 188,393,925	\$ 14,129,544	\$ 8,157,240	\$ 741,121	\$ 13,731,334	\$ 36,003,408	\$ 1,183,596	\$ 34,819,812	\$ 3,543,719
	Change	\$ 2,688	0.00%	\$ 43,544	\$ 580,587	\$ 43,544	\$ -	\$ 584	\$ -	\$ 3,273	\$ -	\$ 3,273	\$ 3,273
10	JTC1-21 Change 2015 Term Loan in 2016 to 3.43% for \$10M	\$ 12,817,870	6.14%	\$ 208,675,315	\$ 188,393,925	\$ 14,129,544	\$ 8,157,240	\$ 741,121	\$ 13,731,334	\$ 35,937,298	\$ 1,183,596	\$ 34,753,703	\$ 3,477,610
	Change	\$ 66,109	-0.03%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66,109	\$ -	\$ 66,109	\$ 66,109
11	Settlement Increase Other Revenue \$40,000	\$ 12,817,870	6.14%	\$ 208,675,315	\$ 188,393,925	\$ 14,129,544	\$ 8,157,240	\$ 741,121	\$ 13,731,334	\$ 35,937,298	\$ 1,223,596	\$ 34,713,703	\$ 3,437,610
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000	\$ -	\$ 40,000	\$ 40,000
12	Settlement MS3 out Opening 2016, MS1 out Closing 2016	\$ 12,816,888	6.14%	\$ 208,669,977	\$ 188,393,925	\$ 14,129,544	\$ 8,156,493	\$ 740,659	\$ 13,731,334	\$ 35,935,298	\$ 1,223,596	\$ 34,711,613	\$ 3,435,620
	Change	\$ 881	0.00%	\$ 14,338	\$ -	\$ -	\$ 747	\$ 462	\$ -	\$ 2,089	\$ -	\$ 2,089	\$ 2,089
13	Settlement Decrease 2016 Additions by \$500k	\$ 12,801,828	6.14%	\$ 208,414,152	\$ 188,393,925	\$ 14,129,544	\$ 8,150,144	\$ 742,270	\$ 13,731,334	\$ 35,915,310	\$ 1,223,596	\$ 34,691,714	\$ 3,415,621
	Change	\$ 15,161	0.00%	\$ 246,825	\$ -	\$ -	\$ 6,349	\$ 1,611	\$ -	\$ 19,899	\$ -	\$ 19,899	\$ 19,899
14	Settlement Change 2016 Term Loan Jn-Dec 2016 to 3.43% for \$7.2M	\$ 12,774,648	6.13%	\$ 208,414,152	\$ 188,393,925	\$ 14,129,544	\$ 8,150,144	\$ 742,270	\$ 13,731,334	\$ 35,888,130	\$ 1,223,596	\$ 34,664,534	\$ 3,388,441
	Change	\$ 27,180	-0.01%	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ -	\$ 27,180	\$ -	\$ 27,180	\$ 27,180
15	Settlement Decrease \$10k OM&A in 2016	\$ 12,773,223	6.13%	\$ 208,398,882	\$ 188,083,925	\$ 14,108,294	\$ 8,150,144	\$ 741,868	\$ 13,421,334	\$ 35,576,303	\$ 1,223,596	\$ 34,352,707	\$ 3,076,794
	Change	\$ 1,425	0.00%	\$ 23,250	\$ 310,000	\$ -	\$ -	\$ 312	\$ 310,000	\$ -	\$ -	\$ 311,737	\$ 311,737
16	Settlement Change LF to 1540 GWh, Add 146 Res, 10 <50 Cust, Adj 2014 CDM / Persistence	\$ 12,786,026	6.13%	\$ 208,599,775	\$ 190,868,909	\$ 14,315,168	\$ 8,150,144	\$ 744,700	\$ 13,421,334	\$ 35,591,997	\$ 1,223,596	\$ 34,368,401	\$ 2,697,789
	Change	\$ 12,803	0.00%	\$ 208,874	\$ 2,784,984	\$ 208,874	\$ -	\$ 2,801	\$ -	\$ 15,604	\$ -	\$ 15,604	\$ 378,915
17	Settlement Adjust 2 Assets Outside Kinetics Rance	\$ 12,788,279	6.13%	\$ 208,636,537	\$ 190,868,909	\$ 14,315,168	\$ 8,076,620	\$ 718,744	\$ 13,421,334	\$ 35,494,711	\$ 1,223,596	\$ 34,271,115	\$ 2,600,502
	Change	\$ 2,253	0.00%	\$ 36,762	\$ -	\$ -	\$ 73,524	\$ 26,016	\$ -	\$ 97,286	\$ -	\$ 97,286	\$ 97,286
18	Settlement OPEB Changes to OM&A Capital and Deferral	\$ 12,789,672	6.13%	\$ 208,659,273	\$ 190,006,909	\$ 14,295,518	\$ 8,077,849	\$ 718,252	\$ 13,159,334	\$ 35,234,841	\$ 1,223,596	\$ 34,011,245	\$ 2,340,632
	Change	\$ 1,354	0.00%	\$ 22,736	\$ 262,000	\$ 19,650	\$ 1,229	\$ 492	\$ 262,000	\$ 259,870	\$ -	\$ 259,870	\$ 259,870
19	Settlement Correct Rate Base Calculation re: MS3 Opening	\$ 12,789,608	6.13%	\$ 208,658,217	\$ 190,006,909	\$ 14,295,518	\$ 8,077,849	\$ 718,238	\$ 13,159,334	\$ 35,234,762	\$ 1,223,596	\$ 34,011,166	\$ 2,340,553
	Change	\$ 65	0.00%	\$ 1,056	\$ -	\$ -	\$ -	\$ 14	\$ -	\$ 79	\$ -	\$ 79	\$ 79
20	Settlement MS3 adjust 2016 CCA for Disposal	\$ 12,789,608	6.13%	\$ 208,658,217	\$ 190,006,909	\$ 14,295,518	\$ 8,077,849	\$ 718,460	\$ 13,159,334	\$ 35,234,964	\$ 1,223,596	\$ 34,011,368	\$ 2,340,775
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ 222	\$ -	\$ -	\$ -	\$ 222	\$ 222
21	Settlement Adj CDM % to Rate Classes in Load Forecast - Enerov Tab	\$ 12,789,608	6.13%	\$ 208,658,217	\$ 190,006,909	\$ 14,295,518	\$ 8,077,849	\$ 718,460	\$ 13,159,334	\$ 35,234,964	\$ 1,223,596	\$ 34,011,368	\$ 2,341,887
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,112
22	Settlement Update Adjust to 2016 Cost of Capital Parameters	\$ 12,568,048	6.02%	\$ 208,658,217	\$ 190,006,909	\$ 14,295,518	\$ 8,077,849	\$ 685,308	\$ 13,159,334	\$ 34,860,324	\$ 1,223,596	\$ 33,736,728	\$ 2,087,227
	Change	\$ 21,559	-0.11%	\$ -	\$ -	\$ -	\$ -	\$ 33,101	\$ -	\$ 254,660	\$ -	\$ 254,660	\$ 254,660

# **Attachment G**

## **2020 IRM Checklist**

# 2020 IRM Checklist

## Waterloo North Hydro

### EB-2019-0071

Filing Requirement  
Page # Reference

Date: August 9, 2019

Included in Manager's  
Summary (or attachment) -  
yes or NA

IRM REQUIREMENTS			
<b>3.1.2 Components of the Application Filing , Pg. 3-4</b>			
Pg. 3	Manager's summary documenting and explain all rate adjustments requested		yes
3	Contact info - primary contact may be a person within the applicant's organization other than the primary license contact		yes
4	Completed Rate Generator Model and supplementary work forms, Excel and PDF		yes
4	Current tariff sheet, PDF		yes
4	Supporting documentation (e.g. relevant past decisions, RRWF etc.)		yes
4	Statement as to who will be affected by the application, specific customer groups affected by particular request		yes
4	Applicant's internet address		yes
4	Statement confirming accuracy of billing determinants pre-populated in model		yes
4	Text searchable PDF format for all documents		yes
<b>3.1.3 Applications and Electronic Models, Pg. 5-6</b>			
5	Populated GA Analysis Workform		yes
5	If required, for distributors seeking revenue to cost ratio adjustments due to previous OEB decision, the Revenue to Cost Ratio Adjustment Workform must be filed		NA
5	For an incremental or pre-approved advanced capital module (ICM/ACM) cost recovery and associated rate rider(s), a distributor must file the Capital Module Applicable to ACM and ICM		NA
5	A distributor seeking to dispose of lost revenue amounts from conservation and demand management activities, during an IRM term, must file the Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Workform		NA
5 & 6	Account 1595 Analysis Workform - for distributors who meet the requirements for disposition of residual balances in 1595 sub-accounts		yes
Addendum, Page 15			
All distributors must file the responses to the questions in Appendix A of the GA Analysis Workform.			yes
<b>3.2.2 Revenue to Cost Ratio Adjustments</b>			
8	Completed revenue-to-cost ratio adjustment workform to adjust the revenue-to-cost ratio if previously approved by the OEB		NA
<b>3.2.3 Rate Design for Residential Electricity Customers</b>			
<i>Residential Rate Design - Exceptions and Mitigation (applicable only to distributors that have not completed the rate design transition)</i>			NA
9	Extension of OEB-approved transition period, if necessary		NA
9	Alternative/additional strategy in the event that an additional transition year is insufficient, or that no extension is necessary, however substantiated with reasons		NA
9	Calculation of the combined impact of the fixed rate increase and any other changes in the cost of distribution service for those residential RPP customers who are at the 10th percentile of overall consumption		NA
9	Description of the method used to derive the 10th consumption percentile. The description should include a discussion regarding the nature of the data that was used (e.g. was the source data for all residential customers or a representative sample of residential customers).		NA
9	If the total bill impact of the elements proposed in the application is 10% or greater for RPP customers consuming at the 10th percentile, a distributor must file a plan to mitigate the impact for the whole residential class or indicate why such a plan is not required		NA
10	Mitigation plan if total bill increases for any customer class exceed 10%		NA
<b>3.2.4 Electricity Distribution Retail Transmission Service Rates</b>			
No action required at filing - model completed with most recent uniform transmission rates (UTRs) approved by the OEB			
<b>3.2.5 Review and Disposition of Group 1 DVA Balances, Pg. 10-16</b>			
10	Justification if any account balance in excess of the threshold should not be disposed		NA
11	Completed tab 3 - continuity schedule in Rate Generator Model		yes
11	Explanation of variance between amounts proposed for disposition and amounts reported in RRR for each account		yes
11	Statement as to whether any adjustments have been made to balances previously approved by the OEB on a final basis If yes, explanations provided for the nature and amounts of the adjustments and supporting documentation under a section titled "Adjustments to Deferral and Variance Accounts"		yes
12	GA rate riders calculated on an energy basis (kWh)		yes
General	Propose rate riders for recovery or refund of balances that are proposed for disposition. The default disposition period is one year; if the applicant is proposing an alternative recovery period must provide explanation.		yes
<b>3.2.5.1 Wholesale Market Participants</b>			
12	Establish separate rate riders to recover balances in the RSVA's from Market Participants who must not be allocated the RSVA balances related to charges for which the WMP's settle directly with the IESO.		yes
<b>3.2.5.2 Global Adjustment</b>			
13	Establishment of a separate rate rider included in the delivery component of the bill that would apply prospectively to Non-RPP Class B customers when clearing balances from the GA Variance Account		yes
For each year that the accumulated balance of Account 1589 has not been disposed, regardless of whether or not distributors are seeking disposition of Group 1 accounts in the current proceeding, all distributors are required to file the GA Analysis Workform in live Excel format and responses to questions in Appendix A of the GA Analysis Workform Instructions; explain discrepancies. Unexplained discrepancies calculated separately for each calendar year			NA
14	Description of settlement process with IESO or host distributor, specify GA rate used for each rate class, itemize process for providing estimates and describe true-up process, details of method for estimating RPP and non-RPP consumption, treatment of embedded generation/distribution, distributor's internal control tests in validating estimated and actual consumption figures used in RPP settlement process and subsequent true-up adjustments		yes
15	If distributor uses the actual GA rate to bill non-RPP Class B customers, a proposal must be made to exclude these customer classes from the allocations of the balance of Account 1589 and the calculation of the resulting rate riders		yes
15	Description of financial accounting practices related to recording transaction in 1588 and 1589		yes
14 & 15	Disclosure of nature, timing, and dollar impact of subsequent adjustments recorded after recording period that adjust the initial transactions from preliminary estimates to actual figures based on consumption data - complete GA Analysis Workform for each applicable fiscal year subsequent to the most recent year in which Accounts 1588 and 1589 were approved for disposition on a final basis by the OEB		yes
15	If a distributor uses the actual GA price to bill non-RPP Class B customers for an entire rate class, propose made to exclude these customer classes from the allocation of the balance of account 1589 RSVA GA and the calculation of the resulting rate riders - these rate classes are not to be charged/refunded the GA rate rider as they did not contribute to the accumulation of the balance of account 1589 RSVA GA		yes
<b>3.2.5.3 Commodity Accounts 1588 and 1589</b>			
15	RPP Settlement True-Up - distributors to follow guidance in May 23, 2017 letter pertaining to the period that is being requested for disposition for Accounts 1588 and 1589		yes
15	Certification by the CEO, CFO or equivalent that distributor has robust processes and internal controls in place for the preparation, review, verification and oversight of account balances being proposed for disposition		yes
Addendum, Pages 12 - 13			
Status update on implementation of new accounting guidance (related to Accounts 1588 and 1589 - Feb 21, 2019), a review of historical balances, results of the review, and any adjustments made to account balances; for any adjustments made - include the reason, how it was quantified and the journal entries to adjust the balances			yes
<b>3.2.5.4 Capacity Based Recovery (CBR)</b>			
16	Proposed disposition of Account 1580 sub-account CBR Class B in accordance with the OEB's CBR Accounting Guidance. - embedded distributors who are not charged CBR (therefore no balance in sub-account CBR Class B) must indicate this is the case for them - In the DVA continuity schedule, applicants must indicate whether they serve any Class A customers during the period where Account 1580 CBR Class B sub-account balance accumulated. - Account 1580 sub-account CBR Class A is not to be disposed through rates proceedings but rather follow the OEB's accounting guidance. - The DVA continuity schedule will allocate the portion of Account 1580 sub-account CBR Class B allocated to customers who transitioned between Class A and Class B based on consumption levels		yes
<b>3.2.6 Lost Revenue Adjustment Mechanism Variance Account</b>			
LRAMVA - disposition of balance. Distributors must provide version 4 of LRAMVA work form in a working Excel file when making LRAMVA requests for remaining amounts related to CFF activity. An application for lost revenues should include: Participation and Cost reports in Excel format, made available by the IESO. An application for lost revenues should also provide the following: - statement identifying the year(s) of new lost revenues and prior year savings persistence claimed in the LRAMVA disposition - statement confirming LRAMVA based on verified savings results supported by the distributors final CDM Report and Persistence Savings Report (both filed in Excel format) and a statement indicating use of most recent input assumptions when calculating lost revenue - summary table with principal and carrying charges by rate class and resulting rate riders - statement providing the disposition period; rationale provided for disposing the balance in the LRAMVA if one or more classes do not generate significant rate riders - statement confirming LRAMVA reference amounts, rationale for the distributors circumstances if LRAMVA threshold not used - rationale confirming how rate class allocations for actual CDM savings were determined by class and program (Tab 3-A of LRAMVA Work Form) - statement confirming whether additional documentation was provided in support of projects that were not included in distributors final CDM Annual Report (Tab 8 of LRAMVA Work Form as applicable) - for a distributor's streetlighting project(s) which may have been completed in collaboration with local municipalities, the following must be provided: Explanation of the methodology to calculate streetlighting savings; Confirmation whether the streetlighting savings were calculated in accordance with OEB-approved load profiles for streetlighting projects; Confirmation whether the streetlighting project(s) received funding from the IESO and the appropriate net-to-gross assumption used to calculate streetlighting savings  For the recovery of lost revenues related to demand savings from street light upgrades, distributors should provide the following information: o Explanation of the forecast demand savings from street lights, including assumptions built into the load forecast from the last CoS application o Confirmation that the street light upgrades represent incremental savings attributable to participation in the IESO program, and that any savings not attributable to the IESO program have been removed (for example, other upgrades under normal asset management plans) o Confirmation that the associated energy savings from the applicable IESO program have been removed from the LRAMVA workform so as not to double count savings (for example, if requesting lost revenue recovery for the demand savings from a street light upgrade program, the associated energy savings from the Retrofit program have been subtracted from the Retrofit total) o Confirmation that the distributor has received reports from the participating municipality that validate the number and type of			NA
Addendum, Pages 20 - 22			
<b>3.2.7 Tax Changes</b>			
19 & 20	If applicable, tabs 8 and 9 of Rate Generator Model complete		yes (NA)
20	If one or more customer classes does not generate a rate rider to the fourth decimal place, a proposal that the entire 50/50 sharing amount will be transferred to Account 1595 for disposition at a future date		NA
<b>3.2.8 Z-Factor Claims, Pg. 20-21</b>			
20	Evidence that costs incurred meet criteria of need, materiality and prudence - see 3rd Generation IRM Report		NA

## 2020 IRM Checklist

### Waterloo North Hydro

#### EB-2019-0071

Filing Requirement  
Page # Reference

Date: August 9, 2019

		Included in Manager's Summary (or attachment) - yes or NA
<b>IRM REQUIREMENTS</b>		
20 & 21	In addition distributor must: - Notify OEB by letter of all Z-Factor events within 6 months of event (Confirm that letter is on file) - Apply to OEB for any cost recovery of amounts in OEB-approved deferral account claimed under Z-Factor treatment - Demonstrate that distributor could not have been able to plan or budget for the event and harm caused is genuinely incremental - Demonstrate that costs incurred within a 12-month period and are incremental to those already being recovered in rates as part of ongoing business exposure risk	NA
<b>3.2.8.2 Z-Factor Accounting Treatment</b>		
21	Eligible Z-factor cost amounts recorded in Account 1572, Extraordinary Event Costs, of the OEB's USoA contained in the Accounting Procedures Handbook (APH) for electricity distributors.	NA
21	Carrying charges are calculated using simple interest applied to the monthly opening balances in the account and recorded in a separate Sub-Account of this account	NA
<b>3.2.8.3 Recovery of Z-Factor Costs</b>		
21	Description of manner in which distributor intends to allocate incremental costs, including rationale for approach and merits of alternative allocation methods	NA
21	Specification of whether rate rider(s) will apply on fixed or variable basis, or combination; length of disposition period and rationale for proposal	NA
21	Residential rider on fixed basis	NA
21	Detailed calculation of incremental revenue requirement and resulting rate rider(s)	NA
<b>3.3.1 Advanced Capital Module, Pg. 22-23</b>		
22	Evidence of passing "Means Test"	NA
22	Information on relevant project or projects updated cost projections, confirmation that the project or projects are on schedule to be completed as planned and an updated ACM/ICM module in Excel format	NA
22/23	If proposed recovery differs significantly from pre-approved amount, a detailed explanation is required as to why	NA
23	If updated cost projects are 30% greater than pre-approved amount, distributor must treat project as new ICM, re-filed business case and other relevant material required	NA
<b>3.3.2 Incremental Capital Module, Pg. 23-29</b>		
<b>3.3.2.1 ICM Filing Requirements</b>		
	The following should be provided when filing for incremental capital:	NA
25	An analysis demonstrating that the materiality threshold test has been met and that the amounts will have a significant influence on the operation of the distributor	NA
25	Justification that the amounts to be incurred will be prudent - amounts represents the most cost-effective option (but not necessarily the least initial cost) for ratepayers	NA
25	Justification that amounts being sought are directly related to the cause, which must be clearly outside of the base upon which current rates were derived	NA
25	Evidence that the incremental revenue requested will not be recovered through other means (e.g., it is not, in full or in part, included in base rates or being funded by the expansion of service to include new customers and other load growth)	NA
25	Details by project for the proposed capital spending plan for the expected in-service year	NA
25	Description of the proposed capital projects and expected in-service dates	NA
25	Calculation of the revenue requirement (i.e. the cost of capital, depreciation, and PILs) associated with each proposed incremental capital project	NA
25	Calculation of each incremental project's revenue requirements that will be offset by revenue generated through other means (e.g. customer contributions in aid of construction)	NA
25	Description of the actions the distributor would take in the event that the OEB does not approve the application	NA
25	Calculation of a rate rider to recover the incremental revenue from each applicable customer class. The distributor must identify and provide a rationale for its proposed rider design, whether variable, fixed or a combination of fixed and variable riders. As discussed at section 3.2.3, any new rate rider for the residential class must be applied on a fixed basis	NA
<b>3.3.5 Off-Ramps</b>		
30	A distributor whose earnings are in excess of the dead band (i.e. 300 basis points) but nevertheless applies for an increase to its base rates - an explanation to substantiate its reasons for doing so required	NA
<b>Appendix A</b>		
Appendix A	Confirm disposition of residual balances for vintage Account 1595 have only been done once - distributors expected to seek disposition of the balance a year after a rate rider's sunset date has expired. No further dispositions of these accounts are generally expected unless justified by the distributor	yes
Appendix A & Addendum, Page 22	Distributors who meet the requirements for disposition of residual balances of Account 1595 sub-accounts, must complete the 1595 Analysis Workform. Account 1595 sub-accounts are eligible for disposition when one full year has elapsed since the associated rate riders' sunset dates have expired and the residual balances have been externally audited.	yes
Appendix A	Material residual balances will require further analysis, consisting of separating the components of the residual balances by each applicable rate rider and by customer rate class. Distributors are expected to provide detailed explanations for any significant residual balances attributable to specific rate riders for each customer rate class. Explanations must include for example, volume differences between forecast volumes (used to calculate the rate riders) as compared to actual volumes at which the rate riders were billed.	NA