



LRAMVA Work Form: Checklist and Schematic

General Note on the LRAMVA Model

The LRAMVA work form has been created in a generic manner that should allow for use by all LDCs. There are some elements that are not applicable at this time (i.e., 2018, 2019 and 2020 related components). These have been included (but hidden in the work form) in an effort to avoid major updates in the future. This LRAMVA work form consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the forecast savings component and, ultimately, any variance between actual CDM savings and forecast CDM savings. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year. Please contact the IESO for any reports that may be required to complete this LRAMVA work form.

The LRAMVA work form is unlocked to enable LDCs to tailor it to their own unique circumstances.

LRAMVA (\$) = (Actual Net CDM Savings - Forecast CDM Savings) x Distribution Volumetric Rate + Carrying Charges from LRAMVA balance

Legend

Drop Down List (Blue)

Important Checklist

Yes	o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a
Yes	o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form
Yes	o Provide documentation on the LRAMVA threshold by providing the reference and source material from the LDC's cost of service proceeding where its most recent load forecast was approved
Yes	o Include a copy of initiative-level persistence savings information that was verified by the IESO in Tab 7. Persistence information is available upon request from the IESO
Yes	o Apply the IESO verified savings adjustments to the year it relates to.
Yes	o Provide documentation or data substantiating savings from projects that were not provided in the IESO's verified results reports, inserted in Tab 8 (i.e., streetlighting projects), as applicable
Yes	o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a

Work Form Calculations	Source of Calculation	Inputs (Tables to Complete)	Source of Data Inputs	Outputs of Data (Auto-Populated)
Actual Incremental CDM Savings by Initiative	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D & O)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+/- IESO Verified Savings Adjustments	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns D-M & Columns O-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
+ Initiative Level Savings Persistence	Tab "4. 2011-2014 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns E-M & Columns P-X)	IESO Verified Persistence Results Reports included in Tab 7 (Columns L to BT).	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AL)
x Allocation % to Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tables 4-a to 4-d / 5-a to 5-f (Columns Y-AJ)	Determined by the LDC	
Actual Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"	Tab "2. LRAMVA Threshold" Tables 2-a, 2-b and 2-c		
x Distribution Rate by Rate Class	Tab "3. Distribution Rates"	Table 3	LDC's Approved Tariff Sheets	
LRAMVA (\$) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2020 LRAM"			Tables 1-a and 1-b
+ Carrying Charges (\$) by Rate Class	Tabs "1. LRAMVA Summary" and "6. Carrying Charges"	Table 6		Table 6-a
Total LRAMVA (\$) by Rate Class	Tab "1. LRAMVA Summary"			



LRAMVA Work Form:
Summary Tab

Legend

User Inputs (Green)

Auto Populated Cells (White)

Instructions (Grey)

LDC Name

Greater Sudbury Hydro Inc.

Application Details

Please fill in the requested information: a) the amounts approved in the previous LRAMVA application, b) details on the current application, and c) documentation of changes if applicable.

A. Previous LRAMVA Application

Previous LRAMVA Application (EB#)	EB-2020-0024
Application of Previous LRAMVA Claim	2020 COS Application
Period of LRAMVA Claimed in Previous Application	2018-2019
Amount of LRAMVA Claimed in Previous Application	\$ 678,575.00

B. Current LRAMVA Application

Current LRAMVA Application (EB#)	EB-2021-0026
Application of Current LRAMVA Claim	2022 IRM
Period of New LRAMVA in this Application	2020
Period of Rate Recovery (# years)	1

C. Documentation of Changes

Original Amount
Amount for Final Disposition

Actual Lost Revenues (\$)	A	\$ 40,103
Forecast Lost Revenues (\$)	B	-\$ 87,771
Carrying Charges (\$)	C	-\$ 340
LRAMVA (\$) for Account 1568	A-B+C	-\$ 48,008

Table 1-a. LRAMVA Totals by Rate Class

Please input the customer rate classes applicable to the LDC and associated billing units (kWh or kW) in Table 1-a below. This will update all tables throughout the workform.

The LRAMVA total by rate class in Table 1-a should be used to inform the determination of rate riders in the Deferral and Variance Account Work Form or IRM Rate Generator Model. Please also ensure that the principal amounts in column E of Table 1-a capture the appropriate years and amounts for the LRAMVA claim. Column F of Table 1-a should include projected carrying charges amounts as determined on a rate class basis from Table 1-b below.

NOTE: If the LDC has more than 14 customer classes in which CDM savings was allocated, LDCs must contact OEB staff to make adjustments to the workform.

Customer Class	Billing Unit	Principal (\$)	Carrying Charges (\$)	Total LRAMVA (\$)
Residential	kWh	\$0.00	\$0.00	\$0.00
GS<50 kW	kWh	-\$21,964.56	-\$156.82	-\$22,121.38
GS 50 to 4,999	kW	-\$32,275.25	-\$230.43	-\$32,505.69
USL	kWh	\$0.00	\$0.00	\$0.00
Sentinel Lighting	kW	\$0.00	\$0.00	\$0.00
Street Lighting	kW	\$6,572.54	\$46.93	\$6,619.47
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
Total		-\$47,667	-\$340	-\$48,008

Table 1-b. Annual LRAMVA Breakdown by Year and Rate Class

In column C of Table 1-b below, please insert a 'check mark' to indicate the years in which LRAMVA has been claimed. If you inserted a check-mark for a particular year, please delete the amounts associated with the actual and forecast lost revenues for all rate classes for that year, up to and including the total. Any LRAMVA from a prior year that has already been claimed cannot be included in the current LRAMVA disposition, with the exception of the case noted below.

If LDCs are seeking to claim true-up amounts that were previously approved by the OEB, please note that the "Amount Cleared" rows are applicable to the LDC and should be filled out. This may relate to claiming the difference in LRAM approved before the May 19, 2016 Peak Demand Consultation, and the lost revenues that would have been incurred after that consultation, as approved by the OEB. If this is the case, reference to the decision must be noted in the rate application. If this is not the case, LDCs are requested to leave those rows blank.

LDCs are expected to include projected carrying charges amounts in row 84 of Table 1-b below. LDCs should also check accuracy of the years included in the LRAMVA balance in row 85.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	GS 50 to 4,999	USL	Sentinel Lighting	Street Lighting	Total	
		kWh	kWh	kW	kWh	kW	kW	0	
2019 Actuals	<input checked="" type="checkbox"/>								
2019 Forecast									
Amount Cleared									
2020 Actuals		\$0.00	\$16,226.88	\$17,303.87	\$0.00	\$0.00	\$6,572.54	\$0.00	\$40,103.30
2020 Forecast		\$0.00	(\$38,191.44)	(\$49,579.12)	\$0.00	\$0.00	\$0.00	\$0.00	(\$87,770.56)
Amount Cleared									
Carrying Charges		\$0.00	(\$156.82)	(\$230.43)	\$0.00	\$0.00	\$46.93	\$0.00	(\$340.32)
Total LRAMVA Balance		\$0.00	-\$22,121.38	-\$32,505.69	\$0.00	\$0.00	\$6,619.47	\$0.00	-\$48,007.59

Note: LDC to make note of assumptions included above, if any



LRAMVA Work Form: Summary of Changes

Version 3.0 (2019)

Legend

User Inputs (Green)
Drop Down List (Blue)
Instructions (Grey)

Table A-1. Changes to Generic Assumptions in LRAMVA Work Form

Please document any changes in assumptions made to the generic inputs of the LRAMVA work form. This may include, but are not limited to, the use of different monthly multipliers to claim demand savings from energy efficiency programs; use of different rate allocations between current year savings and prior year savings adjustments; inclusion of additional adjustments affecting distribution rates; etc. All changes should be highlighted in the work form as well.

No.	Tab	Cell Reference	Description	Rationale
1	5. 2015-2020 LRAM	B335	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Program added	Program not included
2	5. 2015-2020 LRAM	Row 996	LED Conversion Added	Program not included
3	5. 2015-2020 LRAM	Row 1111-1118	Savings cleared	New load forecast/LRAMVA Threshold - years prior to 2019 excluded
4				
5				
6				
7				
8				
9				
10				
etc.				

Table A-2. Updates to LRAMVA Disposition

Please document any changes related to interrogatories or questions during the application process that affect the LRAMVA amount.

No.	Tab	Cell Reference	Description	Rationale
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
etc.				



LRAMVA Work Form:
Forecast Lost Revenues

Version 3.0 (2019)

Legend	User Inputs (Green)
	Drop Down List (Blue)
	Auto Populated Cells (White)
	Instructions (Grey)

Table 2-a. LRAMVA Threshold2013

Please provide the LRAMVA threshold approved in the cost of service (COS) application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-1. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	GS 50 to 4,999	USL	Sentinel Lighting	Street Lighting								
		kWh	kWh	kW	kWh	kW	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	13,566,120	5,833,432	2,034,918	5,562,109			135,661								
kW	2,457			2,408			49								
Summary		5833432	2034918	2408	0	0	49	0	0	0	0	0	0	0	0

Years Included in Threshold	2011-2013 (Half 2011/2013 - full 2012)
Source of Threshold	EB-2012-0126 Settlement Agreement, p. 20 (Share of kWh)

Table 2-b. LRAMVA Threshold2020

Please provide the LRAMVA threshold approved in the last COS application, which is used as the comparator against actual savings in the period of the LRAMVA claim. The LRAMVA threshold should generally be consistent with the annualized savings targets developed from Appendix 2-1. If a manual update is required to reflect a different allocation of forecast savings that was approved by the OEB, please note the changes and provide rationale for the change in Tab 1-a.

	Total	Residential	GS<50 kW	GS 50 to 4,999	USL	Sentinel Lighting	Street Lighting								
		kWh	kWh	kW	kWh	kW	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
kWh	6,025,625	0	1,836,127	4,189,498											
kW	10,432			10,432											
Summary		0	1836127	10432	0	0	0	0	0	0	0	0	0	0	0

Years Included in Threshold	2019/2020
Source of Threshold	2020 Settlement Agreement, p. 41 (EB-2019-0037)

Table 2-c. Inputs for LRAMVA Thresholds

Please complete Table 2-c below by selecting the appropriate LRAMVA threshold year in column C. The LRAMVA threshold values in Table 2-c will auto-populate from Tables 2-a and 2-b depending on the year selected. If there was no LRAMVA threshold established for a particular year, please select the "blank" option. The LRAMVA threshold values in Table 2-c will be auto-populated in Tabs 4 and 5 of this work form.

Year	LRAMVA Threshold	Residential	GS<50 kW	GS 50 to 4,999	USL	Sentinel Lighting	Street Lighting								
		kWh	kWh	kW	kWh	kW	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	2013	5,833,432	2,034,918	2,408	0	0	49	0	0	0	0	0	0	0	0
2014	2013	5,833,432	2,034,918	2,408	0	0	49	0	0	0	0	0	0	0	0
2015	2013	5,833,432	2,034,918	2,408	0	0	49	0	0	0	0	0	0	0	0
2016	2013	5,833,432	2,034,918	2,408	0	0	49	0	0	0	0	0	0	0	0
2017	2013	5,833,432	2,034,918	2,408	0	0	49	0	0	0	0	0	0	0	0
2018	2013	5,833,432	2,034,918	2,408	0	0	49	0	0	0	0	0	0	0	0
2019	2013	5,833,432	2,034,918	2,408	0	0	49	0	0	0	0	0	0	0	0
2020	2020	0	1,836,127	10,432	0	0	0	0	0	0	0	0	0	0	0

Note: LDC to make note of assumptions included above, if any

LRAMVA Work Form:
Distribution Rates

Version 3.0 (2019)

Table 3. Inputs for Distribution Rates and Adjustments by Rate Class

Please complete Table 3 with the rate class specific distribution rates that pertain to the years of the LRAMVA disposition. Any adjustments that affect distribution rates can be incorporated in the calculation by expanding the "plus" button at the left hand bar. Table 3 will convert the distribution rates to a calendar year rate (January to December) based on the number of months entered in row 16 of each rate year starting from January to the start of the LDC's rate year. Please enter 0 in row 16, if the rate year begins on January 1. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas in Table 3-a accordingly.

	Billing Unit	EB-2009-0225	EB-2010-0083	EB-2011-0169	EB-2012-0126	EB-2013-0131	EB-2014-0075	EB-2015-0071	EB-2016-0072	EB-2017-0042	EB-2018-0034	EB-2019-0037	EB-2020-0024
Rate Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Period 1 (# months)		7	4	4	4	4	4	4	4	4	4	4	4
Period 2 (# months)		5	8	8	8	8	8	8	8	8	8	8	8
Residential	kWh	\$ 0.0123	\$ 0.0123	\$ 0.0124	\$ 0.0121	\$ 0.0123	\$ 0.0124	\$ 0.0093	\$ 0.0063	\$ 0.0032	\$ -	\$ -	
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ 0.0123	\$ 0.0123	\$ 0.0124	\$ 0.0121	\$ 0.0123	\$ 0.0124	\$ 0.0093	\$ 0.0063	\$ 0.0032	\$ -	\$ -	\$ -
Calendar year equivalent		\$ 0.0123	\$ 0.0123	\$ 0.0124	\$ 0.0122	\$ 0.0122	\$ 0.0124	\$ 0.0103	\$ 0.0073	\$ 0.0042	\$ 0.0011	\$ -	\$ -
GS<50 kW	kWh	\$ 0.0187	\$ 0.0184	\$ 0.0186	\$ 0.0182	\$ 0.0185	\$ 0.0187	\$ 0.0187	\$ 0.0190	\$ 0.0191	\$ 0.0193	\$ 0.0216	\$ 0.0220
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ 0.0187	\$ 0.0184	\$ 0.0186	\$ 0.0182	\$ 0.0185	\$ 0.0187	\$ 0.0187	\$ 0.0190	\$ 0.0191	\$ 0.0193	\$ 0.0216	\$ 0.0220
Calendar year equivalent		\$ 0.0185	\$ 0.0185	\$ 0.0185	\$ 0.0183	\$ 0.0184	\$ 0.0186	\$ 0.0187	\$ 0.0189	\$ 0.0191	\$ 0.0192	\$ 0.0208	\$ 0.0219
GS 50 to 4,999	kW	\$ 4.3627	\$ 4.2336	\$ 4.2709	\$ 4.1821	\$ 4.2406	\$ 4.2894	\$ 4.2894	\$ 4.3580	\$ 4.3907	\$ 4.4434	\$ 4.9072	\$ 5.0004
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ 4.3627	\$ 4.2336	\$ 4.2709	\$ 4.1821	\$ 4.2406	\$ 4.2894	\$ 4.2894	\$ 4.3580	\$ 4.3907	\$ 4.4434	\$ 4.9072	\$ 5.0004
Calendar year equivalent		\$ 4.2766	\$ 4.2585	\$ 4.2585	\$ 4.2117	\$ 4.2211	\$ 4.2731	\$ 4.2894	\$ 4.3351	\$ 4.3798	\$ 4.4258	\$ 4.7526	\$ 4.9693
USL	kWh	\$ 0.0124	\$ 0.0122	\$ 0.0123	\$ 0.0105	\$ 0.0106	\$ 0.0107	\$ 0.0107	\$ 0.0109	\$ 0.0110	\$ 0.0111	\$ 0.0120	\$ 0.0122
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ 0.0124	\$ 0.0122	\$ 0.0123	\$ 0.0105	\$ 0.0106	\$ 0.0107	\$ 0.0107	\$ 0.0109	\$ 0.0110	\$ 0.0111	\$ 0.0120	\$ 0.0122
Calendar year equivalent		\$ 0.0123	\$ 0.0123	\$ 0.0123	\$ 0.0111	\$ 0.0106	\$ 0.0107	\$ 0.0107	\$ 0.0108	\$ 0.0110	\$ 0.0111	\$ 0.0117	\$ 0.0121
Sentinel Lighting	kW	\$ 10.3336	\$ 11.7670	\$ 11.8706	\$ 12.3008	\$ 12.4730	\$ 12.6164	\$ 12.6164	\$ 12.8183	\$ 12.9144	\$ 13.0694	\$ 14.8222	\$ 15.7934
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ 10.3336	\$ 11.7670	\$ 11.8706	\$ 12.3008	\$ 12.4730	\$ 12.6164	\$ 12.6164	\$ 12.8183	\$ 12.9144	\$ 13.0694	\$ 14.8222	\$ 15.7934
Calendar year equivalent		\$ 11.2892	\$ 11.8361	\$ 11.8361	\$ 12.1574	\$ 12.4156	\$ 12.5686	\$ 12.6164	\$ 12.7510	\$ 12.8824	\$ 13.0177	\$ 14.2379	\$ 15.4697
Street Lighting	kW	\$ 8.4525	\$ 10.7227	\$ 10.8171	\$ 2.5766	\$ 2.6127	\$ 2.6427	\$ 2.6427	\$ 2.6850	\$ 2.7051	\$ 2.7376	\$ 2.6929	\$ 2.5043
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ 8.4525	\$ 10.7227	\$ 10.8171	\$ 2.5766	\$ 2.6127	\$ 2.6427	\$ 2.6427	\$ 2.6850	\$ 2.7051	\$ 2.7376	\$ 2.6929	\$ 2.5043
Calendar year equivalent		\$ 9.9660	\$ 10.7856	\$ 10.7856	\$ 5.3234	\$ 2.6007	\$ 2.6327	\$ 2.6427	\$ 2.6709	\$ 2.6984	\$ 2.7268	\$ 2.7078	\$ 2.5672
0	0												
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Calendar year equivalent		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	0												
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Calendar year equivalent		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	0												
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Calendar year equivalent		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	0												
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Calendar year equivalent		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	0												
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Calendar year equivalent		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	0												
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Calendar year equivalent		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	0												
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Calendar year equivalent		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
0	0												
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Calendar year equivalent		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note: LDC to make note of adjustments made to Table 3 to accommodate the LDC's specific circumstances

Table 3-a. Distribution Rates by Rate Class

Table 3-a below autopopulates the average distribution rates from Table 3. Please ensure that the distribution rates relevant to the years of the LRAMVA disposition are used. Please clear the rates related to the year(s) that are not part of the LRAMVA claim.

The distribution rates that remain in Table 3-a will be used in Tabs 4 and 5 of the work form to calculate actual and forecast lost revenues. If there are additional adjustments (i.e., rows) added to Table 3, please adjust the formulas from Table 3-a, as well as the distribution rate links in Tabs 4 and 5.

Year	Residential	GS<50 kW	GS 50 to 4,999	USL	Sentinel Lighting	Street Lighting								
	kWh	kWh	kW	kWh	kW	kW	0	0	0	0	0	0	0	0
2011	\$0.0123	\$0.0185	\$4.2766	\$0.0123	\$11.2892	\$9.9660	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2012	\$0.0124	\$0.0185	\$4.2585	\$0.0123	\$11.8361	\$10.7856	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2013	\$0.0122	\$0.0183	\$4.2117	\$0.0111	\$12.1574	\$5.3234	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2014	\$0.0122	\$0.0184	\$4.2211	\$0.0106	\$12.4156	\$2.6007	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2015	\$0.0124	\$0.0186	\$4.2731	\$0.0107	\$12.5686	\$2.6327	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2016	\$0.0103	\$0.0187	\$4.2894	\$0.0107	\$12.6164	\$2.6427	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2017	\$0.0073	\$0.0189	\$4.3351	\$0.0108	\$12.7510	\$2.6709	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000

Note: LDC to make note of the years removed from this table, whose distribution rates are not part of the LRAMVA disposition



LRAMVA Work Form: Determination of Rate Class Allocations

Version 3.0 (2019)

Instructions

LDCs must clearly show how it has allocated actual CDM savings to applicable rate classes, including supporting documentation and rationale for its proposal. This should be shown by customer class and program each year.

Greater Sudbury's class allocations are based on the relevant program sectors. Where a program is used by more than one class (ie. Retrofit), project lists were used to group savings by each class. The total consumption savings of projects within each class were divided by the total savings for the program in a given year to determine the share of allocation by class.

		Residential	GS<50 kW	GS 50 to 4,999	USL	Sentinel Lighting	Street Lighting
2011	Appliance Retirement	100%	0%	0%	0%	0%	0%
	Appliance Exchange	100%	0%	0%	0%	0%	0%
	HVAC Incentives	100%	0%	0%	0%	0%	0%
	Conservation Instant Coupon Booklet	100%	0%	0%	0%	0%	0%
	Bi-Annual Retailer Event	100%	0%	0%	0%	0%	0%
	Retailer Co-op	100%	0%	0%	0%	0%	0%
	Retrofit	0%	88%	12%	0%	0%	0%
	Direct Install Lighting	0%	100%	0%	0%	0%	0%
	Retrofit	0%	0%	100%	0%	0%	0%
	Electricity Retrofit Incentive Program	0%	0%	100%	0%	0%	0%
	High Performance New Construction	0%	0%	100%	0%	0%	0%
2012	Appliance Retirement	100%	0%	0%	0%	0%	0%
	Appliance Exchange	100%	0%	0%	0%	0%	0%
	HVAC Incentives	100%	0%	0%	0%	0%	0%
	Conservation Instant Coupon Booklet	100%	0%	0%	0%	0%	0%
	Bi-Annual Retailer Event	100%	0%	0%	0%	0%	0%
	Residential New Construction	100%	0%	0%	0%	0%	0%
	Retrofit	0%	37%	63%	0%	0%	0%
	Direct Install Lighting	0%	100%	0%	0%	0%	0%
	Energy Audit	0%	0%	100%	0%	0%	0%
	High Performance New Construction	0%	0%	100%	0%	0%	0%
2013	Appliance Retirement	100%	0%	0%	0%	0%	0%
	Appliance Exchange	100%	0%	0%	0%	0%	0%
	HVAC Incentives	100%	0%	0%	0%	0%	0%
	Conservation Instant Coupon Booklet	100%	0%	0%	0%	0%	0%
	Bi-Annual Retailer Event	100%	0%	0%	0%	0%	0%
	Residential New Construction	100%	0%	0%	0%	0%	0%
	Retrofit	0%	37%	63%	0%	0%	0%
	Direct Install Lighting	0%	100%	0%	0%	0%	0%
	Energy Audit	0%	0%	100%	0%	0%	0%
	Energy Manager	0%	0%	100%	0%	0%	0%
	Home Assistance Program	100%	0%	0%	0%	0%	0%
2014	Appliance Retirement	100%	0%	0%	0%	0%	0%
	Appliance Exchange	100%	0%	0%	0%	0%	0%
	HVAC Incentives	100%	0%	0%	0%	0%	0%
	Conservation Instant Coupon Booklet	100%	0%	0%	0%	0%	0%
	Bi-Annual Retailer Event	100%	0%	0%	0%	0%	0%
	Residential New Construction	100%	0%	0%	0%	0%	0%
	Retrofit	0%	11%	87%	0%	0%	2%
	Direct Install Lighting	0%	100%	0%	0%	0%	0%
	Energy Audit	0%	0%	100%	0%	0%	0%
	Energy Manager	0%	0%	100%	0%	0%	0%
	Home Assistance Program	100%	0%	0%	0%	0%	0%
	High Performance New Construction	0%	0%	100%	0%	0%	0%
2015	Program Enabled Savings	100%	0%	0%	0%	0%	0%
	Time of Use Savings	100%	0%	0%	0%	0%	0%
	Coupon Initiative	100%	0%	0%	0%	0%	0%
	Bi-Annual Retailer Event Initiative	100%	0%	0%	0%	0%	0%
	Appliance Retirement Initiative	100%	0%	0%	0%	0%	0%
	HVAC Incentives Initiative	100%	0%	0%	0%	0%	0%
	Residential New Construction and Major Renovation Initiative	100%	0%	0%	0%	0%	0%
	Energy Audit Initiative	0%	10%	90%	0%	0%	0%
	Efficiency: Equipment Replacement Incentive Initiative	0%	26%	74%	0%	0%	0%
	Direct Install Lighting and Water Heating Initiative	0%	100%	0%	0%	0%	0%
	New Construction and Major Renovation Initiative	0%	0%	100%	0%	0%	0%
	Process and Systems Upgrades Initiatives - Project Incentive Initiative	0%	0%	100%	0%	0%	0%
2016	Process and Systems Upgrades Initiatives - Energy Manager Initiative	0%	0%	100%	0%	0%	0%
	Low Income Initiative	100%	0%	0%	0%	0%	0%
	Save on Energy Coupon Program	100%	0%	0%	0%	0%	0%
	Save on Energy Heating and Cooling Program	100%	0%	0%	0%	0%	0%
	Save on Energy Retrofit Program	0%	13%	87%	0%	0%	0%
	Save on Energy Coupon Program	100%	0%	0%	0%	0%	0%
	Save on Energy Heating and Cooling Program	100%	0%	0%	0%	0%	0%
	Save on Energy Audit Funding Program	0%	0%	0%	0%	0%	0%
	Save on Energy Retrofit Program	0%	20.3%	79.7%	0%	0.0%	0%
	Save on Energy Energy Manager Program	0%	0%	100%	0%	0%	0%
	Home Depot Home Appliance Market Uplift Conservation Fund Pilot Program	100%	0%	0%	0%	0%	0%
	Save on Energy Coupon Program	100%	0%	0%	0%	0%	0%
2017	Save on Energy Heating and Cooling Program	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Save on Energy Instant Discount Program	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Save on Energy Retrofit Program	0.00%	36.30%	63.70%	0.00%	0.00%	0.00%
	Save on Energy High Performance New Construction Program	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
	Save on Energy Energy Performance Program for Multi-Site Customers	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
	Home Energy Assessment & Retrofit LDC Innovation Fund Pilot Program	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Whole Home Pilot Program	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Save on Energy Instant Discount Program	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Save on Energy Heating and Cooling Program	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Save on Energy Retrofit Program	0.00%	30.00%	72.00%	0.00%	0.00%	0.00%
	Save on Energy Small Business Lighting Program	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%
	Save on Energy High Performance New Construction Program	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
2018	Save on Energy Business Refrigeration Program	0.00%	63.00%	43.00%	0.00%	0.00%	0.00%
	Instant Savings Program	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Save on Energy Heating & Cooling Program	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	HPNC	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
	Retrofit	0.00%	58.27%	37.21%	0.00%	0.00%	0.00%
	Small Business Lighting	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%
	Retrofit	0.00%	9.10%	81.00%	0.00%	0.00%	0.00%
	HPNC	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
2019	HPNC	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%
	Retrofit	0.00%	58.27%	37.21%	0.00%	0.00%	0.00%
2020	Small Business Lighting	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%
	Retrofit	0.00%	9.10%	81.00%	0.00%	0.00%	0.00%
2020	HPNC	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%

		Retrofit		HPNC	
2019		kWh	kW	kWh	kW
GS < 50	58.27%	62.79%	0%	0%	0%
GS > 50	41.73%	37.21%	100%	100%	100%

		Retrofit		HPNC	
2020		kWh	kW	kWh	kW
GS < 50	9.10%	19.00%	0%	0%	0%
GS > 50	90.90%	81.00%	100%	100%	100%

Note:
kWh % used for GS < 50
kW % used for GS > 50



LRAMVA Work Form:
2011 - 2014 Lost Revenues Work Form

Version 3.0 (2019)

Legend	User Inputs (Green)
	Auto Populated Cells (White)
	Instructions (Grey)

- Instructions**
- LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2011-2014 period. Please input or manually link the savings, adjustments and program savings persistence data in these tables from the LDC's Persistence Reports provided by the IESO (in Tab 7). As noted earlier, persistence data is available upon request from the IESO. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1.
 - Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the IESO in 2013 should be included in the 2012 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments in the future can be claimed as approved LRAMVA amounts are considered to be final.
 - The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless supported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the new multiplier that has been used.
 - LDC are requested to input the applicable rate class allocation percentages to allocate actual savings to the rate classes. The generic template currently includes the same allocation percentage for program savings and its savings adjustments. If a different allocation is proposed for savings adjustments, LDCs must provide supporting rationale in Tab 1-a and highlight the change.
 - The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the applicable savings persistence rows (auto-calculated after the LRAMVA totals for the year) if future year's persistence of savings is already captured in the updated load forecast. Please also provide assumptions about the years in which persistence is captured in the load forecast calculation in the "Notes" section below each table.

- Tables**
- [Table 4-a. 2011 Lost Revenues](#)
[Table 4-b. 2012 Lost Revenues](#)
[Table 4-c. 2013 Lost Revenues](#)
[Table 4-d. 2014 Lost Revenues.](#)

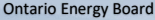
Table 4-a. 2011 Lost Revenues Work Form

	Program	Results Status	Net Energy Savings (kWh)	Net Energy Savings Persistence (kWh)									Monthly Multiplier	Net Demand Savings (kW)	Net Peak Demand Savings Persistence (kW)										Rate Allocations for LRAMVA																
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Residential	GS<50 kW	GS 50 to 4,999	USL	Sentinel Lighting	Street Lighting									Total			
	Consumer Program																					kWh	kWh	kW	kWh	kW	kW	0	0	0	0	0	0	0	0	0	100%				
1	Appliance Retirement Adjustment to 2011 savings	Verified True-up	427,371	427,371	427,371	418,189	294,738	0	0	0	0	0		75	75	75	65	39	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%			
2	Appliance Exchange Adjustment to 2011 savings	Verified True-up	5,209	5,209	5,209	2,969	0	0	0	0	0	0		4	4	4	2	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%		
3	HVAC Incentives Adjustment to 2011 savings	Verified True-up	555,312 -108,301	555,312 -108,301	555,312 -108,301	555,312 -108,301	555,312 -108,301	555,312 -108,301	555,312 -108,301	555,312 -108,301	555,312 -108,301			279 -55	279 -55	279 -55	279 -55	279 -55	279 -55	279 -55	279 -55	279 -55	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%			
4	Conservation Instant Coupon Booklet Adjustment to 2011 savings	Verified True-up	200,793 2,833	200,793 2,833	200,793 2,833	200,793 2,833	184,703 2,833	167,126 2,588	130,808 1,588	130,001 1,586	163,668 1,586	62,621 562		12 0	12 0	12 0	12 0	11 0	11 0	9 0	9 0	10 0	6 0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%		
5	Bi-Annual Retailer Event Adjustment to 2011 savings	Verified True-up	301,981 22,436	301,981 22,436	301,981 22,436	301,981 22,436	275,988 22,436	247,593 20,388	186,669 11,007	185,988 11,005	240,376 11,005	77,135 2,428		17 1	17 1	17 1	17 1	16 1	15 1	12 1	12 1	14 1	7 0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%	
6	Retailer Co-op Adjustment to 2011 savings	Verified True-up	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%	
7	Residential Demand Response Adjustment to 2011 savings	Verified True-up	191	0	0	0	0	0	0	0	0	0		73	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
8	Residential Demand Response (IHD) Adjustment to 2011 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
9	Residential New Construction Adjustment to 2011 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
	Business Program																																								
10	Retrofit Adjustment to 2011 savings	Verified True-up	1,080,286 18,429	1,080,286 18,429	1,080,286 18,429	1,080,286 18,429	1,080,286 18,429	1,080,286 17,452	1,080,286 17,452	1,080,286 14,803	933,975 14,803	933,975 14,803	12	198 3	198 3	198 3	198 3	198 3	198 3	198 3	198 3	158 2	158 2	0.00%	88.00%	12.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%	
11	Direct Install Lighting Adjustment to 2011 savings	Verified True-up	207,531 6,872	207,531 6,872	207,281 6,872	175,464 2,344	175,464 2,344	174,421 2,344	73,486 737	73,180 737	73,180 737	73,180 737	12	82 3	82 3	82 3	70 1	70 1	70 1	28 0	27 0	27 0	27 0	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%	
12	Building Commissioning Adjustment to 2011 savings	Verified True-up										3 3												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
13	New Construction Adjustment to 2011 savings	Verified True-up										12 12												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
14	Energy Audit Adjustment to 2011 savings	Verified True-up										12 12												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
15	Small Commercial Demand Response Adjustment to 2011 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
16	Small Commercial Demand Response (IHD) Adjustment to 2011 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
17	Demand Response 3 Adjustment to 2011 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
	Industrial Program																																								
18	Process & System Upgrades Adjustment to 2011 savings	Verified True-up										12 12												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%	
19	Monitoring & Targeting Adjustment to 2011 savings	Verified True-up										12 12												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%	
20	Energy Manager Adjustment to 2011 savings	Verified True-up										12 12												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%	
21	Retrofit Adjustment to 2011 savings	Verified True-up	67,778	67,778	67,778	67,778	67,778	67,778	67,778	67,778	67,778	12 12		11	11	11	11	11	11	11	11	11	11	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100%
22	Demand Response 3 Adjustment to 2011 savings	Verified True-up	3,376	0	0	0	0	0	0	0	0	0		86	0	0	0	0	0	0	0	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%	
23	Home Assistance Program Adjustment to 2011 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
24	Home Assistance Program Adjustment to 2011 savings	Verified True-up																						0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
25	Direct Install Lighting Adjustment to 2011 savings	Verified True-up										0 0												0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0%		
26	Electricity Retrofit Incentive Program	Verified	149,161	149,161	149,161	149,161	149,161	149,161	149,161	149,161	149,161	12		26	26	26	26	26	26	26	26	26			100.00%												100%				

Note: LDC to make note of key assumptions included above

Pre-2011 Programs completed in 2011

[illegible]

**Version 3.0 (2019)**

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

LDCs can apply for disposition of LRAMVA amounts at any time but, at a minimum, must do so as part of a cost of service (COS) application. The following LRAMVA work forms apply to LDCs that need to recover lost revenues from the 2015-2020 period. Please enter or manually link the savings, adjustments and program savings persistence data in these tables from the LDC's Persistence Reports provided by the IESO (in Tab 7). As noted earlier, persistence data is available upon request from the IESO. Please also be advised that the same rate classes (of up to 14) are carried over from the Summary Tab 1.

2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2016 programs that were reported by the IESO in 2017 should be included in the 2016 program savings table. In order for persisting savings to be claimed in future years, past year's initiative level savings results need to be filled out in the tables below. If the IESO adjustments were made available to the LDC after the LRAMVA was approved, the persistence of those savings adjustments in the future can be claimed as approved LRAMVA amounts are considered to be final.

3. The work forms below include the monthly multipliers for most programs in order to claim demand savings from energy efficiency programs, consistent with the monthly multipliers indicated in the OEB's updated LRAM policy related to peak demand savings in EB-2016-0182. Demand Response (DR3) savings should generally not be included with the LRAMVA calculation, unless supported by empirical evidence. LDCs are requested to confirm the monthly multipliers for all programs each year as placeholder values are provided. If a different monthly multiplier is used, please include rationale in Tab 1-a and highlight the new multiplier that has been used.

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[Table S-a. 2015 Lost Revenues](#)
[Table S-b. 2016 Lost Revenues](#)
[Table S-c. 2017 Lost Revenues](#)
[Table S-d. 2018 Lost Revenues](#)
[Table S-e. 2019 Lost Revenues](#)
[Table S-f. 2020 Lost Revenues](#)

Conservation First Framework

2015 Savings Persisting in 2016	3,970,069	990,581	9,069	0	0	0	0	0	0	0	0	0	0	0	0	0
2015 Savings Persisting in 2020	3,636,349	990,581	9,069	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: LDC to make note of key assumptions included above

Table 5-b. 2016 Lost Revenues Work Form

[Return to top](#)

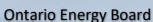
Program	Results Status	Net Energy Savings (kWh)		Net Energy Savings Persistence (kWh)								Monthly Multiplier	Net Demand Savings (kW)		Net Peak Demand Savings Persistence (kW)										Rate Allocations for LRAMVA																																													
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Residential	GS<50 kW	GS 50 to 4,999	USL	Sentinel Lighting	Street Lighting											Total																															
																																kWh	kWh	kW	kWh	kW	kW																																	
Legacy Framework																																																																						
Residential Program																																																																						
Coupon Initiative	Verified																																								0%																													
Adjustment to 2016 savings	True-up																																								0%																													
Bi-Annual Retailer Event Initiative	Verified																																								0%																													
Adjustment to 2016 savings	True-up																																								0%																													
Appliance Retirement Initiative	Verified																																								0%																													
Adjustment to 2016 savings	True-up																																								0%																													
HVAC Incentives Initiative	Verified																																								0%																													
Adjustment to 2016 savings	True-up																																								0%																													
Residential New Construction and Major Renovation Initiative	Verified																																								0%																													
Adjustment to 2016 savings	True-up																																								0%																													
Commercial & Institutional Program																																																																						
Energy Audit Initiative	Verified											12																													0%																													
Adjustment to 2016 savings	True-up											12																													0%																													
Efficiency: Equipment Replacement Incentive Initiative	Verified											12																													0%																													
Adjustment to 2016 savings	True-up											12																													0%																													
Direct Install Lighting and Water Heating Initiative	Verified											12																													0%																													
Adjustment to 2016 savings	True-up											12																													0%																													
New Construction and Major Renovation Initiative	Verified											12																													0%																													
Adjustment to 2016 savings	True-up											12																													0%																													
Existing Building Commissioning Incentive Initiative	Verified											3																													0%																													
Adjustment to 2016 savings	True-up											3																													0%																													
Industrial Program																																																																						
Process and Systems Upgrades Initiatives - Project Incentive Initiative	Verified											12																													0%																													
Adjustment to 2016 savings	True-up											12																													0%																													
Process and Systems Upgrades Initiatives - Monitoring and Targeting Initiative	Verified											12																													0%																													
Adjustment to 2016 savings	True-up											12																													0%																													
Process and Systems Upgrades Initiatives - Energy Manager Initiative	Verified											12																													0%																													
Adjustment to 2016 savings	True-up											12																													0%																													
Low Income Program																																																																						
Low Income Initiative	Verified											12																													0%																													
Adjustment to 2016 savings	True-up											12																													0%																													
Other																																																																						
Aboriginal Conservation Program	Verified											0																													0%																													
Adjustment to 2016 savings	True-up											0																													0%																													
Program Enabled Savings	Verified											0																													0%																													
Adjustment to 2016 savings	True-up											0																													0%																													
Conservation Fund Pilots																																																																						
Conservation Fund Pilot - EnerNOC	Verified											0																													0%																													
Adjustment to 2016 savings	True-up											0																													0%																													
Loblaws Pilot	Verified											0																													0%																													
Adjustment to 2016 savings	True-up											0																																																										

Note: GSH Home Depot Home Appliance Market Uplift Conservation Fund Pilot Program added (highlighted in yellow)

4 of 11

Note: LDC to make note of key assumptions included above

[illegible]



Version 3.0 (2019)

Legend

User Inputs (Green)
Auto Populated Cells (White)
Instructions (Grey)

Instructions

1. Please update Table 6 as new approved prescribed interest rates for deferral and variance accounts become available. Monthly interest rates are used to calculate the variance on the carrying charges for LRAMVA. Starting from column I, the principal will auto-populate as monthly variances in Table 6-a, and are multiplied by the interest rate from column H to determine the monthly variances on carrying charges for each rate class by year.
2. The annual carrying charges totals in Table 6-a below pertain to the amount that was originally collected in interest from forecasted CDM savings and what should have been collected based on actual CDM savings. As the amounts calculated in Table 6-a are cumulative, LDCs are requested to enter any collected interest amounts into the "Amounts Cleared" row in order to clear the balance and calculate outstanding variances on carrying charges.
3. Please calculate the projected interest amounts in the LRAMVA work form. Project carrying charges amounts included in Table 6-a should be consistent with the projected interest amounts included in the DVA Continuity Schedule. **If there are additional adjustments required to the formulas to calculate the projected interest amounts, please adjust the formulas in Table 6-a accordingly.**

Table 6. Prescribed Interest Rates

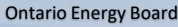
Quarter	Approved Deferral & Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	1.10%
2017 Q2	1.10%
2017 Q3	1.10%
2017 Q4	1.50%
2018 Q1	1.89%
2018 Q2	1.89%
2018 Q3	1.89%
2018 Q4	2.17%
2019 Q1	2.45%
2019 Q2	2.18%
2019 Q3	2.18%
2019 Q4	2.18%
2020 Q1	2.18%
2020 Q2	2.18%
2020 Q3	0.57%
2020 Q4	0.57%
2021 Q1	0.57%
2021 Q2	0.57%
2021 Q3	0.57%
2021 Q4	0.57%
2022 Q1	0.57%
2022 Q2	0.57%
2022 Q3	
2022 Q4	

Check OEB website

Table 6-a. Calculation of Carrying Costs by Rate Class

[Go to Tab 1: Summary](#)[illegible]

[illegible]

**Version 3.0 (2019)**

Instructions (Steps)

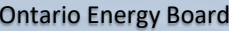
- Columns B to H of this tab have been structured in a way to match the formatting of the persistence report provided by the IESO. Please copy and paste the program information by initiative in Columns B to H and the corresponding demand and energy savings data by initiative in Columns L to BT of this work form.
- Please identify the source of the report via the dropdown list in Column I.
- To facilitate the identification of adjustments that may be available in a prospective year's results report, it will be easier to sort all the savings by implementation year (Column H). This can be done by clicking on the filter button at cell H25 (highlighted in orange). Before you sort values, please ensure that all table columns have filters.
- Please identify what the savings value represents (i.e., current year savings for the year or an adjustment to a prior year) via the dropdown list in Column J. Current year savings would be identified with an implementation year that matches the year of the persistence report. A savings adjustment would be identified with a prior year implementation in the future year's results report.
- Please manually input or link the applicable savings and adjustments (Columns L to BT) for all applicable initiatives in Tabs 4 and 5 of this work form.

NOTE: The Net Verified Peak Demand Savings table and Net Verified Energy Savings table below are in the reverse order to the accompanying tables in Tab 4 and Tab 5. The tables below match those provided by the IESO.

Table 7. 2011-2020 Verified Program Results and Persistence into Future Years

[illegible]

[illegible]



LRAMVA Work Form: Documentation for Streetlighting Projects

Version 3.0 (2019)

Instructions

Please provide documentation and/or data to substantiate program savings that were not provided in the IESO's verified results reports (i.e., streetlighting projects).

Table 8-a: Name of Municipality

Summary of Project #1

Details of Project #1 (Month, Year)

Post-conversion billing demand

	Net kWh reduction	Hours On
	$j = e * k$	k
Jan-20	-	462.8
Feb-20	-	395.2
Mar-20	-	373.9
Apr-20	-	312.1
May-20	-	278.3
Jun-20	-	247.3
Jul-20	(16,061)	267.0
Aug-20	(192,962)	305.8
Sep-20	(411,626)	343.7
Oct-20	(173,281)	406.4
Nov-20	(179,303)	437.3
Dec-20	(42,356)	475.9
	-	
Total	(1,015,589)	4,305.6
Persistence in 2020	3,339,279	
Persistence in 2021	3,339,279	
Persistence in 2022	3,339,279	
Persistence in 2023	3,339,279	
Persistence in 2024	3,339,279	

Counts

			Cobra							Deco				Total		
			Wattage	HPS						LPS	HPS					
				70	100	150	200	250	400		55	70	100		150	400
2020	Month	Day														
	6	29	0	0	3	0	6	2	0	0	0	0	0	11		
	7	17	0	23	27	0	6	0	0	0	0	0	0	56		
	7	20	0	40	55	0	0	0	0	0	0	0	0	95		
	7	21	0	5	92	0	1	0	0	0	0	0	0	98		
	7	22	0	0	7	0	0	0	0	0	0	0	0	7		
	7	23	0	19	60	0	0	0	0	0	0	0	0	79		
	7	24	0	28	58	0	1	0	0	0	0	0	0	87		
	7	27	0	58	62	0	0	0	0	0	0	0	0	120		
	7	28	0	41	59	0	1	0	0	0	0	0	0	101		
	7	29	1	17	54	0	0	0	0	0	0	0	0	72		
	7	30	0	5	81	0	1	0	0	0	0	0	0	87		
	7	31	0	0	78	0	0	0	0	0	0	0	0	78		
	8	1	0	0	50	0	0	0	0	0	0	0	0	50		
	8	2	0	4	39	0	11	0	0	0	0	0	0	54		
	8	3	0	0	48	0	2	0	0	0	0	0	0	50		
	8	4	1	3	90	0	1	0	0	0	0	0	0	95		
	8	5	0	33	43	0	1	0	0	0	0	0	0	77		
	8	6	0	45	45	0	0	0	0	0	0	0	0	90		
	8	7	0	19	57	0	0	0	0	0	0	0	0	76		
	8	9	0	0	50	0	0	0	0	0	0	0	0	50		
	8	10	1	26	127	0	4	1	0	0	0	0	0	159		
	8	11	0	0	174	0	19	0	0	0	0	0	0	193		
	8	12	0	1	181	0	10	0	0	0	0	0	0	192		
	8	13	0	2	148	0	13	30	2	0	0	0	0	195		
	8	14	8	5	35	1	13	69	0	0	0	0	0	131		
	8	15	0	0	40	0	6	32	0	0	0	0	0	78		
	8	16	0	0	21	0	33	49	0	0	0	0	0	103		
	8	17	2	4	37	0	8	19	1	0	0	0	0	71		
	8	18	0	0	17	0	0	0	0	0	0	0	0	17		
	8	19	0	1	38	0	2	15	0	0	0	0	0	56		
	8	20	0	0	4	0	39	8	0	0	0	0	0	51		
	8	21	4	1	30	0	11	4	1	0	0	0	0	51		
	8	22	0	0	1	0	1	48	0	0	0	0	0	50		
	8	24	0	0	5	0	0	1	0	0	0	0	0	6		
	8	25	0	0	2	0	16	64	0	0	0	0	0	82		
	8	26	0	0	0	0	0	10	0	0	0	0	0	10		
	9	1	0	14	99	0	4	0	0	0	0	0	0	117		
	9	2	0	0	27	0	0	0	0	0	0	0	0	27		
	9	3	0	5	38	0	5	8	0	0	0	0	0	56		
9	4	0	8	63	0	5	0	2	0	0	0	0	78			
9	8	0	6	92	0	0	0	0	0	0	0	0	98			
9	9	0	1	82	0	0	0	0	0	0	0	0	83			
9	10	0	20	75	0	0	0	0	0	0	0	0	95			
9	14	0	0	14	0	0	0	0	0	0	0	0	14			
9	15	0	1	19	0	0	0	0	0	0	0	0	20			
9	16	0	1	29	0	1	0	0	0	0	0	0	31			
9	17	0	0	25	0	0	0	0	0	0	0	0	25			
9	18	0	6	60	0	1	0	0	0	0	0	0	67			

9	21	0	32	48	0	0	0	0	0	0	0	80	
9	22	0	21	46	0	1	0	0	0	0	0	68	
9	23	0	5	64	0	0	0	0	0	0	0	69	
9	24	0	1	24	0	0	0	0	0	0	0	25	
10	1	0	0	28	0	0	0	0	0	0	0	28	
10	2	0	4	63	0	1	0	0	0	0	0	68	
10	5	0	0	5	0	0	0	0	0	3	2	10	
10	6	0	0	3	0	0	0	0	0	0	0	3	
10	7	0	11	30	0	0	0	0	0	0	1	42	
10	8	0	17	40	0	3	11	0	0	0	0	71	
10	9	1	0	50	0	3	5	2	0	0	0	61	
10	13	1	4	58	0	0	22	0	0	0	0	85	
10	14	15	9	66	0	0	0	4	0	0	0	94	
10	15	3	6	60	0	0	4	1	0	0	0	74	
10	16	13	7	51	0	0	0	8	0	0	0	79	
10	19	0	0	65	0	0	35	2	0	0	0	102	
10	20	0	2	62	0	9	32	0	0	0	0	105	
10	21	1	11	45	0	7	27	0	0	0	0	91	
10	22	4	5	35	0	10	7	0	0	0	0	61	
10	26	2	5	76	0	6	6	0	0	0	0	95	
10	27	0	7	67	0	9	0	4	0	0	0	87	
10	28	1	2	84	0	1	0	0	0	0	0	88	
10	29	2	0	67	0	0	0	0	0	0	0	69	
10	30	2	0	55	0	9	0	0	0	0	0	66	
11	2	7	1	57	0	0	0	6	0	0	0	71	
11	3	3	2	45	0	3	2	1	0	0	0	56	
11	4	0	0	11	0	0	0	0	0	0	0	11	
11	6	0	0	2	0	0	0	0	0	0	0	2	
11	10	0	0	13	0	0	0	0	0	0	0	13	
11	11	0	0	106	0	1	1	0	0	0	0	108	
11	12	0	18	61	0	1	0	0	0	0	0	80	
11	13	0	2	64	0	0	0	1	0	0	0	67	
11	14	0	0	2	0	0	0	0	0	0	0	2	
11	16	0	0	87	0	1	0	0	0	0	0	88	
11	17	0	1	33	0	0	0	0	0	0	0	34	
11	18	0	0	39	0	8	2	0	0	0	0	49	
11	19	0	9	33	0	0	3	4	0	0	0	49	
11	20	0	1	20	0	3	0	7	0	0	0	31	
11	23	0	2	0	0	0	0	0	0	0	0	2	
12	1	1	0	2	0	1	0	0	0	1	3	8	
12	2	0	0	0	0	0	0	0	0	9	10	19	
12	3	0	0	0	0	0	0	0	0	5	15	20	
12	4	0	0	0	3	0	0	0	0	4	4	11	
12	7	0	0	0	0	0	0	0	0	2	2	4	
12	8	0	0	0	0	0	0	0	6	0	0	6	
12	9	1	0	4	0	0	0	0	12	0	0	17	
12	10	0	0	0	0	0	0	0	0	0	1	1	
12	14	0	0	0	0	0	0	0	0	1	0	3	
12	15	0	0	0	0	0	0	0	0	0	0	7	
12	17	0	0	1	0	0	0	0	0	0	0	1	
12	18	0	0	0	0	0	0	0	0	3	0	5	
12	21	0	0	0	0	0	0	0	0	1	0	1	
12	22	0	0	0	0	0	0	0	0	2	0	2	
12	23	0	0	0	0	0	0	2	0	0	0	2	
Total		74	627	4313	4	299	517	48	18	31	38	11	5980

Demand (W)

		Cobra							Deco				Total
		HPS						LPS	HPS				
		70	100	150	200	250	400	55	70	100	150	400	
		Billed	91	130	188	241	295	465	80	91	130	188	
Month	Day												
6	29	-	-	564	-	1,770	930	-	-	-	-	-	3,264
7	17	-	2,990	5,076	-	1,770	-	-	-	-	-	-	9,836
7	20	-	5,200	10,340	-	-	-	-	-	-	-	-	15,540
7	21	-	650	17,296	-	295	-	-	-	-	-	-	18,241
7	22	-	-	1,316	-	-	-	-	-	-	-	-	1,316
7	23	-	2,470	11,280	-	-	-	-	-	-	-	-	13,750
7	24	-	3,640	10,904	-	295	-	-	-	-	-	-	14,839
7	27	-	7,540	11,656	-	-	-	-	-	-	-	-	19,196
7	28	-	5,330	11,092	-	295	-	-	-	-	-	-	16,717
7	29	91	2,210	10,152	-	-	-	-	-	-	-	-	12,453
7	30	-	650	15,228	-	295	-	-	-	-	-	-	16,173
7	31	-	-	14,664	-	-	-	-	-	-	-	-	14,664
8	1	-	-	9,400	-	-	-	-	-	-	-	-	9,400
8	2	-	520	7,332	-	3,245	-	-	-	-	-	-	11,097
8	3	-	-	9,024	-	590	-	-	-	-	-	-	9,614
8	4	91	390	16,920	-	295	-	-	-	-	-	-	17,696
8	5	-	4,290	8,084	-	295	-	-	-	-	-	-	12,669
8	6	-	5,850	8,460	-	-	-	-	-	-	-	-	14,310
8	7	-	2,470	10,716	-	-	-	-	-	-	-	-	13,186
8	9	-	-	9,400	-	-	-	-	-	-	-	-	9,400
8	10	91	3,380	23,876	-	1,180	465	-	-	-	-	-	28,992
8	11	-	-	32,712	-	5,605	-	-	-	-	-	-	38,317
8	12	-	130	34,028	-	2,950	-	-	-	-	-	-	37,108
8	13	-	260	27,824	-	3,835	13,950	160	-	-	-	-	46,029
8	14	728	650	6,580	241	3,835	32,085	-	-	-	-	-	44,119
8	15	-	-	7,520	-	1,770	14,880	-	-	-	-	-	24,170
8	16	-	-	3,948	-	9,735	22,785	-	-	-	-	-	36,468
8	17	182	520	6,956	-	2,360	8,835	80	-	-	-	-	18,933
8	18	-	-	3,196	-	-	-	-	-	-	-	-	3,196
8	19	-	130	7,144	-	590	6,975	-	-	-	-	-	14,839
8	20	-	-	752	-	11,505	3,720	-	-	-	-	-	15,977
8	21	364	130	5,640	-	3,245	1,860	80	-	-	-	-	11,319
8	22	-	-	188	-	295	22,320	-	-	-	-	-	22,803
8	24	-	-	940	-	-	465	-	-	-	-	-	1,405
8	25	-	-	376	-	4,720	29,760	-	-	-	-	-	34,856
8	26	-	-	-	-	-	4,650	-	-	-	-	-	4,650
9	1	-	1,820	18,612	-	1,180	-	-	-	-	-	-	21,612
9	2	-	-	5,076	-	-	-	-	-	-	-	-	5,076
9	3	-	650	7,144	-	1,475	3,720	-	-	-	-	-	12,989
9	4	-	1,040	11,844	-	1,475	-	160	-	-	-	-	14,519
9	8	-	780	17,296	-	-	-	-	-	-	-	-	18,076
9	9	-	130	15,416	-	-	-	-	-	-	-	-	15,546
9	10	-	2,600	14,100	-	-	-	-	-	-	-	-	16,700
9	14	-	-	2,632	-	-	-	-	-	-	-	-	2,632
9	15	-	130	3,572	-	-	-	-	-	-	-	-	3,702
9	16	-	130	5,452	-	295	-	-	-	-	-	-	5,877
9	17	-	-	4,700	-	-	-	-	-	-	-	-	4,700
9	18	-	780	11,280	-	295	-	-	-	-	-	-	12,355

9	21	-	4,160	9,024	-	-	-	-	-	-	-	-	13,184
9	22	-	2,730	8,648	-	295	-	-	-	-	-	-	11,673
9	23	-	650	12,032	-	-	-	-	-	-	-	-	12,682
9	24	-	130	4,512	-	-	-	-	-	-	-	-	4,642
10	1	-	-	5,264	-	-	-	-	-	-	-	-	5,264
10	2	-	520	11,844	-	295	-	-	-	-	-	-	12,659
10	5	-	-	940	-	-	-	-	-	390	376	-	1,706
10	6	-	-	564	-	-	-	-	-	-	-	-	564
10	7	-	1,430	5,640	-	-	-	-	-	-	188	-	7,258
10	8	-	2,210	7,520	-	885	5,115	-	-	-	-	-	15,730
10	9	91	-	9,400	-	885	2,325	160	-	-	-	-	12,861
10	13	91	520	10,904	-	-	10,230	-	-	-	-	-	21,745
10	14	1,365	1,170	12,408	-	-	-	320	-	-	-	-	15,263
10	15	273	780	11,280	-	-	1,860	80	-	-	-	-	14,273
10	16	1,183	910	9,588	-	-	-	640	-	-	-	-	12,321
10	19	-	-	12,220	-	-	16,275	160	-	-	-	-	28,655
10	20	-	260	11,656	-	2,655	14,880	-	-	-	-	-	29,451
10	21	91	1,430	8,460	-	2,065	12,555	-	-	-	-	-	24,601
10	22	364	650	6,580	-	2,950	3,255	-	-	-	-	-	13,799
10	26	182	650	14,288	-	1,770	2,790	-	-	-	-	-	19,680
10	27	-	910	12,596	-	2,655	-	320	-	-	-	-	16,481
10	28	91	260	15,792	-	295	-	-	-	-	-	-	16,438
10	29	182	-	12,596	-	-	-	-	-	-	-	-	12,778
10	30	182	-	10,340	-	2,655	-	-	-	-	-	-	13,177
11	2	637	130	10,716	-	-	-	480	-	-	-	-	11,963
11	3	273	260	8,460	-	885	930	80	-	-	-	-	10,888
11	4	-	-	2,068	-	-	-	-	-	-	-	-	2,068
11	6	-	-	376	-	-	-	-	-	-	-	-	376
11	10	-	-	2,444	-	-	-	-	-	-	-	-	2,444
11	11	-	-	19,928	-	295	465	-	-	-	-	-	20,688
11	12	-	2,340	11,468	-	295	-	-	-	-	-	-	14,103
11	13	-	260	12,032	-	-	-	80	-	-	-	-	12,372
11	14	-	-	376	-	-	-	-	-	-	-	-	376
11	16	-	-	16,356	-	295	-	-	-	-	-	-	16,651
11	17	-	130	6,204	-	-	-	-	-	-	-	-	6,334
11	18	-	-	7,332	-	2,360	930	-	-	-	-	-	10,622
11	19	-	1,170	6,204	-	-	1,395	320	-	-	-	-	9,089
11	20	-	130	3,760	-	885	-	560	-	-	-	-	5,335
11	23	-	260	-	-	-	-	-	-	-	-	-	260
12	1	91	-	376	-	295	-	-	-	130	564	-	1,456
12	2	-	-	-	-	-	-	-	-	1,170	1,880	-	3,050
12	3	-	-	-	-	-	-	-	-	650	2,820	-	3,470
12	4	-	-	-	723	-	-	-	-	520	752	-	1,995
12	7	-	-	-	-	-	-	-	-	260	376	-	636
12	8	-	-	-	-	-	-	-	546	-	-	-	546
12	9	91	-	752	-	-	-	-	1,092	-	-	-	1,935
12	10	-	-	-	-	-	-	-	-	-	188	-	188
12	14	-	-	-	-	-	-	-	-	130	-	930	1,060
12	15	-	-	-	-	-	-	-	-	-	-	3,255	3,255
12	17	-	-	188	-	-	-	-	-	-	-	-	188
12	18	-	-	-	-	-	-	-	-	390	-	930	1,320
12	21	-	-	-	-	-	-	-	-	130	-	-	130
12	22	-	-	-	-	-	-	-	-	260	-	-	260
12	23	-	-	-	-	-	-	160	-	-	-	-	160
Total		6,734	81,510	810,844	964	88,205	240,405	3,840	1,638	4,030	7,144	5,115	1,250,429

11	11	0	94	7	1	0	5	0	0	0	0	0	1	0	0	0	0	0	108		
11	12	0	74	4	0	0	1	1	0	0	0	0	0	0	0	0	0	0	80		
11	13	0	59	2	2	0	0	0	2	0	2	0	0	0	0	0	0	0	67		
11	14	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
11	16	0	42	22	4	0	0	0	20	0	0	0	0	0	0	0	0	0	88		
11	17	0	18	8	3	0	0	0	5	0	0	0	0	0	0	0	0	0	34		
11	18	1	21	4	3	0	0	0	10	0	10	0	0	0	0	0	0	0	49		
11	19	4	31	5	0	0	1	1	4	0	1	0	2	0	0	0	0	0	49		
11	20	1	15	6	1	2	0	3	0	1	0	0	2	0	0	0	0	0	31		
11	23	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
12	1	2	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	2	8		
12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	9	0	19		
12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2	0	7	4	20	
12	4	0	0	0	0	0	3	0	0	0	0	0	0	0	4	0	0	4	0	11	
12	7	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	4	
12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	6	
12	9	1	0	2	0	0	1	0	0	1	0	0	0	0	5	0	7	0	0	17	
12	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
12	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	
12	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	2	7	
12	17	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
12	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	1	5	
12	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
12	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	
12	23	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Total			147	2219	1083	120	204	263	114	762	50	309	45	347	219	33	9	10	35	11	5980

Demand (W

		Cobra														Deco					Total
		Wattage	24	33	40	47	48	60	62	67	81	95	105	135	184	35	40	55	72	80	
		Billed	24	33	40	47	48	60	62	67	81	95	105	135	184	35	40	55	72	80	
Month	Day																				
	29	-	-	-	-	-	180	-	-	324	-	-	540	-	-	-	-	-	-	1,044	
6	17	-	891	-	188	-	-	-	1,675	-	-	-	-	-	-	-	-	-	-	2,754	
7	20	-	2,178	-	188	-	-	-	1,474	-	-	-	405	-	-	-	-	-	-	4,245	
7	21	-	2,079	240	47	-	-	248	804	-	-	-	1,620	-	-	-	-	-	-	5,038	
7	22	-	198	-	-	-	-	-	67	-	-	-	-	-	-	-	-	-	-	265	
7	23	-	1,155	800	188	-	-	-	1,340	-	-	-	-	-	-	-	-	-	-	3,483	
7	24	-	2,442	320	188	-	-	-	-	-	-	-	135	-	-	-	-	-	-	3,085	
7	27	-	2,079	720	188	-	-	-	2,345	-	-	-	-	-	-	-	-	-	-	5,332	
7	28	-	2,508	600	94	-	60	-	469	-	-	-	-	-	-	-	-	-	-	3,731	
7	29	72	1,155	40	94	864	360	-	469	-	-	-	-	-	-	-	-	-	-	3,054	
7	30	-	1,254	1,120	47	-	-	62	1,273	-	-	-	-	-	-	-	-	-	-	3,756	
7	31	-	429	2,040	47	-	-	-	871	-	-	-	-	-	-	-	-	-	-	3,387	
8	1	-	-	-	-	-	3,000	-	-	-	-	-	-	-	-	-	-	-	-	3,000	
8	2	-	660	-	-	-	1,800	-	268	-	-	-	-	-	-	-	-	-	-	2,728	
8	3	-	-	-	-	-	-	-	3,350	-	-	-	-	-	-	-	-	-	-	3,350	
8	4	-	1,881	560	47	1,056	-	-	67	-	-	-	-	-	-	-	-	-	-	3,611	
8	5	-	1,584	200	94	-	-	-	1,474	-	-	-	-	-	-	-	-	-	-	3,352	
8	6	-	2,607	120	376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,103	
8	7	-	1,650	400	94	-	-	-	938	-	-	-	-	-	-	-	-	-	-	3,082	
8	9	-	-	2,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000	
8	10	-	1,419	2,640	752	-	-	-	2,278	-	-	-	-	-	-	-	-	-	-	7,089	
8	11	-	1,452	80	-	576	1,440	-	1,407	-	8,550	-	-	-	-	-	-	-	-	13,505	
8	12	24	1,749	1,920	-	432	360	-	2,144	-	2,375	-	2,160	368	-	-	-	-	-	11,532	
8	13	-	1,584	1,840	-	816	60	1,054	1,340	-	380	-	3,915	2,392	-	-	-	-	-	13,381	
8	14	240	396	280	47	384	240	186	67	648	1,995	-	2,700	6,624	-	-	-	-	-	13,807	
8	15	24	429	80	-	-	-	-	1,608	-	1,045	-	1,350	3,128	-	-	-	-	-	7,664	
8	16	-	-	400	-	-	60	-	-	1,134	3,230	-	1,620	5,888	-	-	-	-	-	12,332	
8	17	312	66	80	141	384	180	186	134	-	2,375	-	945	552	-	-	-	-	-	5,355	
8	18	-	66	320	-	144	240	-	-	-	-	-	-	-	-	-	-	-	-	770	
8	19	-	924	-	-	-	-	-	469	-	95	-	270	3,312	-	-	-	-	-	5,070	
8	20	-	66	80	-	-	-	-	-	-	855	1,575	2,160	1,288	-	-	-	-	-	6,024	
8	21	144	-	600	47	144	60	186	-	162	570	-	1,485	552	-	-	-	-	-	3,950	
8	22	-	-	40	-	-	-	-	-	-	-	-	5,265	1,840	-	-	-	-	-	7,145	
8	24	-	33	120	-	-	60	-	-	-	-	-	135	-	-	-	-	-	-	348	
8	25	-	-	-	-	-	-	-	-	-	-	-	8,640	3,312	-	-	-	-	-	11,952	
8	26	-	-	-	-	-	-	-	-	-	-	-	1,350	-	-	-	-	-	-	1,350	
9	1	-	2,310	40	47	-	1,260	-	1,608	-	-	-	-	-	-	-	-	-	-	5,265	
9	2	-	-	400	-	-	-	372	670	81	-	-	-	-	-	-	-	-	-	1,523	
9	3	-	1,254	80	94	-	-	-	67	-	-	-	1,755	-	-	-	-	-	-	3,250	
9	4	48	1,419	40	188	-	300	310	1,072	-	-	-	-	368	-	-	-	-	-	3,745	
9	8	-	1,353	1,560	-	-	1,080	-	-	-	-	-	-	-	-	-	-	-	-	3,993	
9	9	-	825	40	-	-	-	62	3,685	-	95	-	-	-	-	-	-	-	-	4,707	
9	10	-	2,145	400	235	-	-	-	1,005	-	-	-	-	-	-	-	-	-	-	3,785	
9	14	-	198	-	94	-	-	-	402	-	-	-	-	-	-	-	-	-	-	694	
9	15	-	594	-	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	688	
9	16	-	429	320	47	-	-	62	-	-	760	-	-	-	-	-	-	-	-	1,618	
9	17	-	33	-	-	-	-	62	1,541	-	-	-	-	-	-	-	-	-	-	1,636	
9	18	-	495	-	47	-	-	-	2,412	-	1,425	-	-	-	-	-	-	-	-	4,379	
9	21	-	2,640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,640	
9	22	-	528	1,160	329	-	-	124	335	-	855	-	-	-	-	-	-	-	-	3,331	
9	23	-	2,013	80	47	-	60	-	268	-	-	-	-	-	-	-	-	-	-	2,468	
9	24	-	99	40	47	-	840	-	335	-	95	-	-	-	-	-	-	-	-	1,456	
10	1	-	594	320	-	-	60	62	-	-	-	-	-	-	-	-	-	-	-	1,036	
10	2	24	132	1,120	-	288	1,740	-	-	-	-	-	-	-	-	-	-	-	-	3,304	
10	5	-	99	-	-	-	-	124	-	-	-	-	-	-	-	-	120	-	160	503	
10	6	-	33	40	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	
10	7	-	1,122	160	94	-	-	-	67	-	-	-	-	-	-	-	-	-	80	1,523	
10	8	-	528	1,240	-	-	-	-	871	-	-	1,155	-	-	-	-	-	-	-	3,794	
10	9	216	99	1,480	141	-	-	-	268	-	-	105	-	736	-	-	-	-	-	3,045	
10	13	48	528	1,120	47	-	60	806	134	-	95	1,260	-	1,656	-	-	-	-	-	5,754	
10	14	624	-	1,000	-	1,200	-	682	469	-	-	-	-	-	-	-	-	-	-	3,975	
10	15	48	396	760	94	1,680	-	-	67	-	190	-	-	184	-	-	-	-	-	3,419	
10	16	696	264	1,520	94	-	-	124	-	-	-	-	-	-	-	-	-	-	-	2,698	
10	19	72	1,551	120	47	-	-	186	603	-	190	-	1,485	4,232	-	-	-	-	-	8,486	
10	20	-	1,056	1,280	47	-	60	-	-	-	475	-	3,510	1,472	-	-	-	-	-	7,900	
10	21	24	33	1,600	-	-	-	-	1,005	972	-	525	1,620	920	-	-	-	-	-	6,699	
10	22	-	-	320	-	-	780	434	1,340	-	95	105	1,350	184	-	-	-	-	-	4,608	
10	26	120	396	1,520	-	960	120	62	201	162	380	-	810	368	-	-	-	-	-	5,099	
10	27	48	297	1,760	94	48	180	248	1,139	81	-	-	540	-	-	-	-	-	-	4,435	
10	28	96	462	2,360	94	-	60	186	201	81	95	-	-	-	-	-	-	-	-	3,635	
10	29	-	264	720	-	48	120	806	804	-	1,425	-	-	-	-	-	-	-	-	4,187	
10	30	48	528	40	-	672	60	-	1,407	-	475	-	270	736	-	-	-	-	-	4,236	
11	2	360	1,551	280	-	-	-	124	-	-	-	-	-	-	-	-	-	-	-	2,315	
11	3	24	1,419	120	47	-	240	-	-	162	-	-	135	184	-	-	-	-	-	2,331	
11	4	-	363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	363	
11	6	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	
11	10	-	363	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	443	

11	11	-	3,102	280	47	-	300	-	-	-	-	-	135	-	-	-	-	-	3,864		
11	12	-	2,442	160	-	-	60	62	-	-	-	-	-	-	-	-	-	-	2,724		
11	13	-	1,947	80	94	-	-	-	134	-	190	-	-	-	-	-	-	-	2,445		
11	14	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66		
11	16	-	1,386	880	188	-	-	-	1,340	-	-	-	-	-	-	-	-	-	3,794		
11	17	-	594	320	141	-	-	-	335	-	-	-	-	-	-	-	-	-	1,390		
11	18	24	693	160	141	-	-	-	670	-	950	-	-	-	-	-	-	-	2,638		
11	19	96	1,023	200	-	-	60	62	268	-	95	-	270	-	-	-	-	-	2,074		
11	20	24	495	240	47	96	-	186	-	81	-	-	270	-	-	-	-	-	1,439		
11	23	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80		
12	1	48	33	-	-	-	-	-	-	81	-	-	-	-	70	-	-	144	376		
12	2	-	-	-	-	-	-	-	-	-	-	-	-	-	350	-	-	648	998		
12	3	-	-	-	-	-	-	-	-	-	-	-	-	-	245	80	-	504	320		
12	4	-	-	-	-	-	180	-	-	-	-	-	-	-	140	-	-	288	608		
12	7	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-	-	144	214		
12	8	-	-	-	-	-	-	-	-	-	-	-	-	-	105	-	165	-	270		
12	9	24	-	80	-	-	60	-	-	81	-	-	-	-	175	-	385	-	805		
12	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	72		
12	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144	80		
12	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	-	144	160		
12	17	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33		
12	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	216	80		
12	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	72		
12	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144	144		
12	23	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80		
Total			3,528	73,227	43,320	5,640	9,792	15,780	7,068	51,054	4,050	29,355	4,725	46,845	40,296	1,155	360	550	2,520	880	340,145

			HPS/LPS Replaced	LED Replacements	Difference	HPS/LPS Replaced	LED Replacements	Difference
2020	Month	Day	Count	Count	Count	W	W	W
	6	29	11	11	0	3,264	1,044	2,220
	7	17	56	56	0	9,836	2,754	7,082
	7	20	95	95	0	15,540	4,245	11,295
	7	21	98	98	0	18,241	5,038	13,203
	7	22	7	7	0	1,316	265	1,051
	7	23	79	79	0	13,750	3,483	10,267
	7	24	87	87	0	14,839	3,085	11,754
	7	27	120	120	0	19,196	5,332	13,864
	7	28	101	101	0	16,717	3,731	12,986
	7	29	72	72	0	12,453	3,054	9,399
	7	30	87	87	0	16,173	3,756	12,417
	7	31	78	78	0	14,664	3,387	11,277
	8	1	50	50	0	9,400	3,000	6,400
	8	2	54	54	0	11,097	2,728	8,369
	8	3	50	50	0	9,614	3,350	6,264
	8	4	95	95	0	17,696	3,611	14,085
	8	5	77	77	0	12,669	3,352	9,317
	8	6	90	90	0	14,310	3,103	11,207
	8	7	76	76	0	13,186	3,082	10,104
	8	9	50	50	0	9,400	2,000	7,400
	8	10	159	159	0	28,992	7,089	21,903
	8	11	193	193	0	38,317	13,505	24,812
	8	12	192	192	0	37,108	11,532	25,576
	8	13	195	195	0	46,029	13,381	32,648
	8	14	131	131	0	44,119	13,807	30,312
	8	15	78	78	0	24,170	7,664	16,506
	8	16	103	103	0	36,468	12,332	24,136
	8	17	71	71	0	18,933	5,355	13,578
	8	18	17	17	0	3,196	770	2,426
	8	19	56	56	0	14,839	5,070	9,769
	8	20	51	51	0	15,977	6,024	9,953
	8	21	51	51	0	11,319	3,950	7,369
	8	22	50	50	0	22,803	7,145	15,658
	8	24	6	6	0	1,405	348	1,057
	8	25	82	82	0	34,856	11,952	22,904
	8	26	10	10	0	4,650	1,350	3,300
	9	1	117	117	0	21,612	5,265	16,347
	9	2	27	27	0	5,076	1,523	3,553
	9	3	56	56	0	12,989	3,250	9,739
	9	4	78	78	0	14,519	3,745	10,774
	9	8	98	98	0	18,076	3,993	14,083
	9	9	83	83	0	15,546	4,707	10,839
	9	10	95	95	0	16,700	3,785	12,915
	9	14	14	14	0	2,632	694	1,938
	9	15	20	20	0	3,702	688	3,014
	9	16	31	31	0	5,877	1,618	4,259
	9	17	25	25	0	4,700	1,636	3,064
	9	18	67	67	0	12,355	4,379	7,976
	9	21	80	80	0	13,184	2,640	10,544
	9	22	68	68	0	11,673	3,331	8,342
	9	23	69	69	0	12,682	2,468	10,214
	9	24	25	25	0	4,642	1,456	3,186
	10	1	28	28	0	5,264	1,036	4,228
10	2	68	68	0	12,659	3,304	9,355	

10	5	10	10	0	1,706	503	1,203
10	6	3	3	0	564	120	444
10	7	42	42	0	7,258	1,523	5,735
10	8	71	71	0	15,730	3,794	11,936
10	9	61	61	0	12,861	3,045	9,816
10	13	85	85	0	21,745	5,754	15,991
10	14	94	94	0	15,263	3,975	11,288
10	15	74	74	0	14,273	3,419	10,854
10	16	79	79	0	12,321	2,698	9,623
10	19	102	102	0	28,655	8,486	20,169
10	20	105	105	0	29,451	7,900	21,551
10	21	91	91	0	24,601	6,699	17,902
10	22	61	61	0	13,799	4,608	9,191
10	26	95	95	0	19,680	5,099	14,581
10	27	87	87	0	16,481	4,435	12,046
10	28	88	88	0	16,438	3,635	12,803
10	29	69	69	0	12,778	4,187	8,591
10	30	66	66	0	13,177	4,236	8,941
11	2	71	71	0	11,963	2,315	9,648
11	3	56	56	0	10,888	2,331	8,557
11	4	11	11	0	2,068	363	1,705
11	6	2	2	0	376	66	310
11	10	13	13	0	2,444	443	2,001
11	11	108	108	0	20,688	3,864	16,824
11	12	80	80	0	14,103	2,724	11,379
11	13	67	67	0	12,372	2,445	9,927
11	14	2	2	0	376	66	310
11	16	88	88	0	16,651	3,794	12,857
11	17	34	34	0	6,334	1,390	4,944
11	18	49	49	0	10,622	2,638	7,984
11	19	49	49	0	9,089	2,074	7,015
11	20	31	31	0	5,335	1,439	3,896
11	23	2	2	0	260	80	180
12	1	8	8	0	1,456	376	1,080
12	2	19	19	0	3,050	998	2,052
12	3	20	20	0	3,470	1,149	2,321
12	4	11	11	0	1,995	608	1,387
12	7	4	4	0	636	214	422
12	8	6	6	0	546	270	276
12	9	17	17	0	1,935	805	1,130
12	10	1	1	0	188	72	116
12	14	3	3	0	1,060	224	836
12	15	7	7	0	3,255	424	2,831
12	17	1	1	0	188	33	155
12	18	5	5	0	1,320	336	984
12	21	1	1	0	130	72	58
12	22	2	2	0	260	144	116
12	23	2	2	0	160	80	80
Total		5980	5980	0	1,250,429	340,145	910,284

		LED Replacements	Cumulative Replacements	HPS/LPS Replaced	LED Replacements	Difference	Cumulative Difference
Month		Count	Count	W	W	W	W
June	6	-	-	-	-	-	-
July	7	11	11	3,264	1,044	2,220	2,220
August	8	880	891	152,725	38,130	114,595	116,815
September	9	1,987	2,878	480,553	145,500	335,053	451,868
October	10	953	3,831	175,965	45,178	130,787	582,655
November	11	1,379	5,210	294,704	78,456	216,248	798,903
December	12	663	5,873	123,569	26,032	97,537	896,440
January	1	107	5,980	19,649	5,805	13,844	910,284

*Savings from previous month (1st month of lower billed demand)

	Gross	Net
2020	2,848,901	2,427,263.65
2021	10,923,408	9,306,743.62

NTG 85.20%