



By RESS

October 5, 2022

Ms. Nancy Marconi
Registrar
Ontario Energy Board
PO Box 2319
2300 Yonge Street, 27th Floor
Toronto, ON, M4P 1E4

Dear Ms. Marconi:

**Subject: Electricity Distribution Licence No. ED-2002-0556
2023 Electricity Distribution Rate Application (EB-2022-0042) - Interrogatory
Responses**

On August 3, 2022, Hydro Ottawa Limited submitted an application seeking the Ontario Energy Board's ("OEB") approval for proposed electricity distribution rates and other charges, effective January 1, 2023. On September 19, 2022, Hydro Ottawa received interrogatory questions from OEB staff related to its application. Please find attached Hydro Ottawa's responses to OEB Staff's interrogatories.

Please do not hesitate to contact me if you require anything further.

Sincerely,

DocuSigned by:

April Barrie

1E403775748B4CB...

April Barrie

Director, Regulatory Affairs

Directeur, Affaires réglementaires

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1 **INTERROGATORY RESPONSE - OEB-1**

2 **Question-1**

3 EXHIBIT REFERENCE

4 **Ref 1: Exhibit 3, Tab 2, Schedule 2, p.2**

5 **Ref 2: Hydro Ottawa 2022 Rate Application EB-2021-0035 Exhibit 3, Tab 2, Schedule 2, p.2**

6

7 SUBJECT AREA:

8 **Specific Service Charges**

9 Preamble:

10

11 Wireline pole attachment revenue changed from \$3,498k (as illustrated in the 2022 Custom Incentive
12 Rate-setting (CIR) Update Application) to \$2,655k (the current 2023 CIR Update Application).

13 Question(s):

14

15 a) Please provide supporting calculations, including the pole attachment charge and number of
16 poles, to explain the change in the wireline pole attachment revenue.

17

18 **RESPONSE:**

19

20 a) The 2023 proposed wireline pole attachment revenue (“wireline pole revenue”), as presented in the
21 current 2023 Custom Incentive Rate-setting (“CIR”) Update Application, is lower than the illustrative
22 2023 wireline pole revenue that was submitted as part of the 2022 CIR Update Application (“2022
23 Update Application”) due only to the province-wide wireline rate used in calculating wireline pole
24 revenue.

25

26 On December 3, 2021, when Hydro Ottawa submitted its 2022 Update Application the Ontario Energy
27 Board (“OEB”) had not issued the 2022 province-wide wireline pole attachment rate. Hydro Ottawa
28 calculated the 2023-2025 Illustrative wireline pole attachment revenue using a forecasted annual rate
29 of \$47.50. The rate was determined by applying the 2021 OEB inflationary factor of 2.2% to the 2021

OEB interim province-wide rate of \$44.50.¹ On December 16, 2021, the OEB released its Decision and Order related to Hydro Ottawa’s 2022 Update Application. On December 16, 2021, the OEB issued its 2022 Wireline Pole Attachment Charge decision² whereby the OEB reduced the province-wide wireline pole attachment rate to \$34.76 effective January 1, 2022.³

For the 2023 CIR Update Application, the estimate for 2023 wireline pole revenue was updated to reflect the lower OEB province-wide charge. The 2023 OEB forecast rate was determined by applying the 2022 OEB inflationary factor of 3.3% to the current approved rate. To determine the wireline pole revenue from telecommunication and internet service providers (“TISPs”), the 2023 OEB forecast rate is multiplied by the total wireline attachments from TISPs: the forecast number of such attachments have remained unchanged as they were set for the five year Custom IR term. A small portion of Hydro Ottawa’s wireline pole attachment revenue is from utility power attachments, the estimated revenue for these attachments has remained the same. Table A below shows the variance between the two submissions.

Table A - Wireline Pole Attachment Revenue

	2023 Illustrative ⁴	2023 Proposed ⁵	Difference
OEB Wireline Pole Attachment Charge	\$47.50	\$35.91	(\$11.59)
Number of Attachments	72,738	72,738	0
Revenue (\$000)	\$3,455	\$2,612	(\$843)
Utility Power Attachment Revenue (\$000)	\$43	\$43	\$0
Total Estimated Wireline Pole Attachment Revenue (\$000)	\$3,498	\$2,655	(\$843)

¹ Ontario Energy Board, *Order on Wireline Pole Attachment Charge* (December 10, 2020)

² Ontario Energy Board, *Decision and Order Wireline Pole Attachment Charge*, EB-2021-0302 (December 16, 2021)

³ *Ibid*, p.3

⁴ Hydro Ottawa Limited, *2022 Electricity Distribution Rate Application*, EB-2021-0035 (August 18, 2021), Exhibit 3, Tab 2, Schedule 2, p.2

⁵ Hydro Ottawa Limited, *2023 Electricity Distribution Rate Application*, EB-2022-0042 (August 3, 2022), Exhibit 3, Tab 2, Schedule 2, p.2

1 **INTERROGATORY RESPONSE - OEB-2**

2 **Question-2**

3 EXHIBIT REFERENCE:

4 **Ref 1: Exhibit 8, Tab 12, Schedule 1, p.2**

5 **Ref 2: Exhibit 9, Tab 9, Schedule 1, Attachment 9-1-1_A_OEB Workform - Deferral and Variance**

6 **Account_Continuity Schedule_20220803.xlsb**

7
8 SUBJECT AREA:

9 **Bill Impacts**

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11 Preamble:

12
13 The proposed total bill impact for the Street Lighting class exceeds 10% (i.e., 14.03%), which includes a
14 LRAM rate rider of \$1.9737 per kW. For the Street Lighting class, Hydro Ottawa proposed to clear the
15 2017 LRAMVA balance of \$126,198 in 2023 and the remaining LRAMVA balances for years 2018-2020
16 of \$938,488 in 2024 and 2025 equally.

17 Question(s):

18
19 a) Please clarify if Hydro Ottawa has communicated the proposed bill impact with Street Lighting
20 customers. If so, please provide a summary of customers' feedback. If not, please explain why
21 customer consultation about the proposed bill impact is not necessary.

22
23 **RESPONSE:**

24
25 a) Hydro Ottawa recognizes the requirement to rate mitigate year over year bill impacts to its customers
26 that exceed 10%. As such, Hydro Ottawa has proposed to clear the LRAMVA balance over a 3 year
27 period as outlined in Exhibit 8-12-1: Bill Impact Information and in Exhibit 9-3-1: Disposition of Deferral
28 and Variance Accounts. Bill impacts under this rate mitigation plan, as calculated for a single Street
29 Lighting 1 kW and 150 kWh, results in a 14.02% increase year over year.

1 As current Hydro Ottawa Street Light customers are billed based on multiple connections and are not
2 on the Regulated Price Plan (as calculated in the OEB model), further analysis of the rate mitigation
3 plan was completed by determining the bill impacts for a typical Hydro Ottawa Street Light customer.
4 The bill impacts were calculated using the 2022 current and 2023 proposed rates as submitted in
5 Attachment 8-10-1(A): OEB Workform - 2022 Current and 2023 Proposed Tariff of Rates and Charges
6 and using the Average IESO Wholesale Market Price rather than the RPP rates. Three average load
7 profiles were created for this customer class based on 2021 monthly connection counts, consumption
8 (kWh) and demand (kW). With the load profiles for the typical Hydro Ottawa Street Light customer,
9 all of the total bill impacts remain under 9%.

10

11 Table A below provides a summary of bill impacts per load profile including the total change in monthly
12 bill, as expressed in both monetary and percentage terms. The summary is inclusive of variance
13 accounts. Detailed bill impact calculations have been included in Attachment OEB-2(A) as part of this
14 response.

1

Table A - Summary of Street Light Rate Impacts

Load Profile		Approved 2022	Proposed 2023
Street Lighting - Low (8 kW)	Distribution Charge	\$91.18	\$120.77
	Change in Distribution Charge		\$29.59
	% Distribution Increase		32.46%
	% Increase of Total Bill		8.16%
Street Lighting - Mid (50 kW)	Distribution Charge	\$596.41	\$738.46
	Change in Distribution Charge		\$142.05
	% Distribution Increase		23.82%
	% Increase of Total Bill		7.78%
Street Lighting - High (5,196 kW)	Distribution Charge	\$97,124.87	\$113,278.10
	Change in Distribution Charge		\$16,153.23
	% Distribution Increase		16.63%
	% Increase of Total Bill		7.35%

2

3

Hydro Ottawa further notes that using the 2021 actual billing determinants for each customer in the

4

Street Light class results in bill impacts under the required 10% threshold.

Attachment OEB-2(A) Hydro Ottawa Street Light Bill Impacts

Load Profile
 Consumption
 Demand
 Units

LOW	
2,714	kWh
8	kW
32	# of Connections

Charge Unit	2022 Approved			2023 Proposed			Impact 2023 vs 2022	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	1.01	32	\$ 32.32	1.05	32	\$ 33.60	\$ 1.28	3.96%
Distribution Volumetric Rate	\$ 6.9763	8	\$ 55.81	\$ 7.2934	8	\$ 58.35	\$ 2.54	4.55%
LRAM Rate Rider	-\$ 0.0383	8	-\$ 0.31	\$ 1.9737	8	\$ 15.79	\$ 16.10	-5253.26%
Deferral/Variance Account								
Disposition Rate Rider Class 2	-\$ 0.3022	8	-\$ 2.42		8	\$ -	\$ 2.42	-100.00%
Sub-Total A (excluding pass through)			\$ 85.41			\$ 107.74	\$ 22.33	26.15%
Deferral/Variance Account								
Disposition Rate Rider Class 1	-\$ 0.6062	8	-\$ 4.85	\$ 0.3017	8	\$ 2.41	\$ 7.26	-149.77%
Global Adjustment Rate Rider	\$ 0.0006	2,714	\$ 1.63	\$ 0.0006	2,714	\$ 1.63	\$ -	0.00%
Rate Rider Capacity Based								
Recovery Account Applicable for only for Class B		8.00	\$ -	-\$ 0.0001	8	-\$ 0.00	-\$ 0.00	
Low Voltage Service Charge	\$ 0.01509	8.00	\$ 0.12	\$ 0.01494	8	\$ 0.12	-\$ 0.00	-0.99%
Line Losses on Cost of Power	\$ 0.0967	91.73	\$ 8.87	\$ 0.0967	91.73	\$ 8.87	\$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			\$ 91.18			\$ 120.77	\$ 29.59	32.46%
RTSR - Network	\$ 2.6676	8.00	\$ 21.34	\$ 2.9539	8	\$ 23.63	\$ 2.29	10.73%
RTSR - Line and Transformation Connection	\$ 1.6016	8.00	\$ 12.81	\$ 1.6878	8	\$ 13.50	\$ 0.69	5.38%
Sub-Total C - Delivery (including Sub-Total B)			\$ 125.33			\$ 157.90	\$ 32.57	25.99%
Wholesale Market Service Charge (WMSC)	\$ 0.0034	2,806	\$ 9.54	\$ 0.0034	2,806	\$ 9.54	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0005	2,806	\$ 1.40	\$ 0.0005	2,806	\$ 1.40	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Regulatory Charges			\$ 11.19			\$ 11.19	\$ -	0.00%
Average IESO Wholesale Market RPP	\$ 0.0967	2,714	\$ 262.44	\$ 0.0967	2,714	\$ 262.44	\$ -	0.00%
							\$ -	
							\$ -	
							\$ -	
Total Bill - Non-RPP (before Taxes)			\$ 398.97			\$ 431.54	\$ 32.57	8.16%
HST	13%		\$ 51.87	13%		\$ 56.10	\$ 4.23	8.16%
Total Bill (including HST)			\$ 450.83			\$ 487.64	\$ 36.81	8.16%
Provincial Rebate	17.0%			17.0%			\$ -	
Total Bill (incl Prov. Rebate)			\$ 450.83			\$ 487.64	\$ 36.81	8.16%

Loss Factor 3.3800%

Attachment OEB-2(A) Hydro Ottawa Street Light Bill Impacts

Load Profile
 Consumption
 Demand
 Units

MID	
17,860	kWh
50	kW
262	# of Connections

	Charge Unit	2022 OEB-Approved			2023 Proposed			Impact 2023 vs 2022	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	1.01	262	\$ 264.62	1.05	262	\$ 275.10	\$ 10.48	3.96%
Distribution Volumetric Rate	per kW	\$ 6.9763	50	\$ 348.82	\$ 7.2934	50	\$ 364.67	\$ 15.86	4.55%
LRAM Rate Rider	per kW	-\$ 0.0383	50	-\$ 1.92	\$ 1.9737	50	\$ 98.69	\$ 100.60	-5253.26%
Deferral/Variance Account Disposition Rate Rider Class 2	per kW	-\$ 0.3022	50	-\$ 15.11		50	\$ -	\$ 15.11	-100.00%
Sub-Total A (excluding pass through)				\$ 596.41			\$ 738.46	\$ 142.05	23.82%
Deferral/Variance Account Disposition Rate Rider Class 1	per kW	-\$ 0.6062	50	-\$ 30.31	\$ 0.3017	50	\$ 15.09	\$ 45.40	-149.77%
Global Adjustment Rate Rider	per kWh	\$ 0.0006	17,860	\$ 10.72	\$ 0.0006	17,860	\$ 10.72	\$ -	0.00%
Rate Rider Capacity Based Recovery Account Applicable for only for Class B	per kW		50.00	\$ -	-\$ 0.0001	50	-\$ 0.01	-\$ 0.01	
Low Voltage Service Charge	per kW	\$ 0.01509	50.00	\$ 0.75	\$ 0.01494	50	\$ 0.75	-\$ 0.01	-0.99%
Line Losses on Cost of Power		\$ 0.0967	603.67	\$ 58.37	\$ 0.0967	603.67	\$ 58.37	\$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)				\$ 635.95			\$ 823.37	\$ 187.43	29.47%
RTSR - Network	per kW	\$ 2.6676	50.00	\$ 133.38	\$ 2.9539	50	\$ 147.70	\$ 14.32	10.73%
RTSR - Line and Transformation Connection	per kW	\$ 1.6016	50.00	\$ 80.08	\$ 1.6878	50	\$ 84.39	\$ 4.31	5.38%
Sub-Total C - Delivery (including Sub-Total B)				\$ 849.41			\$ 1,055.46	\$ 206.05	24.26%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0034	18,464	\$ 62.78	\$ 0.0034	18,464	\$ 62.78	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0005	18,464	\$ 9.23	\$ 0.0005	18,464	\$ 9.23	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Regulatory Charges				\$ 72.26			\$ 72.26		
Average IESO Wholesale Market RPP		\$ 0.0967	17,860	\$ 1,727.06	\$ 0.0967	17,860	\$ 1,727.06	\$ -	0.00%
								\$ -	
								\$ -	
								\$ -	
Total Bill - Non-RPP (before Taxes)				\$ 2,648.73			\$ 2,854.78	\$ 206.05	7.78%
HST		13%		\$ 344.33	13%		\$ 371.12	\$ 26.79	7.78%
Total Bill (including HST)				\$ 2,993.06			\$ 3,225.90	\$ 232.84	7.78%
Provincial Rebate		17.0%			17.0%			\$ -	
Total Bill (incl Prov. Rebate)				\$ 2,993.06			\$ 3,225.90	\$ 232.84	7.78%

Loss Factor 3.3800%

Attachment OEB-2(A) Hydro Ottawa Street Light Bill Impacts

Load Profile
 Consumption
 Demand
 Units

HIGH	
1,857,004	kWh
5,196	kW
62,025	# of Connections

Charge Unit	2022 OEB-Approved			2023 Proposed			Impact 2023 vs 2022	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	1.01	62,025	\$ 62,645.25	1.05	62,025	\$ 65,126.25	\$ 2,481.00	3.96%
Distribution Volumetric Rate	\$ 6.9763	5,196	\$ 36,248.85	\$ 7.2934	5,196	\$ 37,896.51	\$ 1,647.65	4.55%
LRAM Rate Rider	-\$ 0.0383	5,196	-\$ 199.01	\$ 1.9737	5,196	\$ 10,255.35	\$ 10,454.35	-5253.26%
Deferral/Variance Account								
Disposition Rate Rider Class 2	-\$ 0.3022	5,196	-\$ 1,570.23		5,196	\$ -	\$ 1,570.23	-100.00%
Sub-Total A (excluding pass through)			\$ 97,124.87			\$ 113,278.10	\$ 16,153.23	16.63%
Deferral/Variance Account	per kW							
Disposition Rate Rider Class 1	per kW		-\$ 3,149.82	\$ 0.3017	5,196	\$ 1,567.63	\$ 4,717.45	-149.77%
Global Adjustment Rate Rider	per kWh	1,857,004	\$ 1,114.20	\$ 0.0006	1,857,004	\$ 1,114.20	\$ -	0.00%
Rate Rider Capacity Based	per kW							
Recovery Account Applicable for only for Class B		5,196.00	\$ -	-\$ 0.0001	5,196	-\$ 0.52	-\$ 0.52	
Low Voltage Service Charge	per kW	5,196.00	\$ 78.41	\$ 0.01494	5,196	\$ 77.63	-\$ 0.78	-0.99%
Line Losses on Cost of Power		62,766.74	\$ 6,069.54	\$ 0.0967	62,766.74	\$ 6,069.54	\$ -	0.00%
Sub-Total B - Distribution (includes Sub-Total A)			\$ 101,237.20			\$ 122,106.59	\$ 20,869.38	20.61%
RTSR - Network	per kW	5,196.00	\$ 13,860.85	\$ 2.9539	5,196	\$ 15,348.46	\$ 1,487.61	10.73%
RTSR - Line and Transformation Connection	per kW	5,196.00	\$ 8,321.91	\$ 1.6878	5,196	\$ 8,769.81	\$ 447.90	5.38%
Sub-Total C - Delivery (including Sub-Total B)			\$ 123,419.97			\$ 146,224.86	\$ 22,804.89	18.48%
Wholesale Market Service Charge (WMSC)	per kWh	1,919,771	\$ 6,527.22	\$ 0.0034	1,919,771	\$ 6,527.22	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	1,919,771	\$ 959.89	\$ 0.0005	1,919,771	\$ 959.89	\$ -	0.00%
Standard Supply Service Charge	Monthly	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Regulatory Charges			\$ 7,487.36			\$ 7,487.36		
Average IESO Wholesale Market RPP		1,857,004	\$ 179,572.29	\$ 0.0967	1,857,004	\$ 179,572.29	\$ -	0.00%
							\$ -	
							\$ -	
							\$ -	
Total Bill - Non-RPP (before Taxes)			\$ 310,479.61			\$ 333,284.51	\$ 22,804.89	7.35%
HST			\$ 40,362.35	13%		\$ 43,326.99	\$ 2,964.64	7.35%
Total Bill (including HST)			\$ 350,841.96			\$ 376,611.49	\$ 25,769.53	7.35%
Provincial Rebate				17.0%			\$ -	
Total Bill (incl Prov. Rebate)			\$ 350,841.96			\$ 376,611.49	\$ 25,769.53	7.35%

Loss Factor

3.3800%

Attachment OEB-2(A) Hydro Ottawa Street Light Bill Impacts

Distribution		2022 OEB-Approved	2023 Proposed
Service Charge	\$	1.01	1.05
Distribution Volumetric Rate	\$/kW	6.9763	7.2934
Low Voltage	\$/kW	0.01509	0.01494
Rate Rider for DVA	\$/kW	-0.6062	0.3017
Rate Rider for Group 2	\$/kW	-0.3022	0.000
Rate Rider for LRAM	\$/kW	-0.0383	1.9737
Global Adjustment Rate Rider	\$/kWh	0.0006	-0.0029
Rate Rider for CBR	\$/kW	0	-0.0001
RTSR - Network Service Rate	\$/kW	2.6676	2.9539
RTSR - Line & Transformation Connection Service Rate	\$/kW	1.6016	1.6878
Regulatory		2022 OEB-Approved	
Wholesale Market Service Charge (WMS)	\$/kWh	0.0034	0.0034
Rural and Remport Rate Protection Charge (RRRP)	\$/kWh	0.0005	0.0005
Standard Supply Service - Administrative Charge	\$	0.25	0.25
Commodity		2022 OEB-Approved	
Average IESO Wholesale Market Price	\$/kWh	0.0967	

1 **INTERROGATORY RESPONSE - OEB-3**

2 **Question-3**

3 EXHIBIT REFERENCE:

4 **Exhibit 4, Tab 4, Schedule 2, p. 3**

5
6 SUBJECT AREA:

7 **LRAM Variance Account**

8
9 Preamble:

10
11 Hydro Ottawa notes that the IESO has provided Evaluation, Measurement, and Verification (“EM&V”)
12 results for in-service activities from the Interim Framework for years 2019 and 2020.

13 Question(s):

14
15 a) Please confirm that the CDM savings included in Hydro Ottawa’s current claim for LRAMVA
16 disposition for the 2019 and 2020 years (e.g., the claimed savings for the Retrofit Program) do not
17 include any savings from Interim Framework programs, with the exception of programs delivered
18 through the Local Program Fund.

19 b) If not confirmed, please identify which savings are attributable to Interim Framework programs and
20 the rationale for their inclusion.

21
22 **RESPONSE:**

23
24 a) Hydro Ottawa confirms that the current claim for the Lost Revenue Adjustment Mechanism Variance
25 Account disposition for the 2019 and 2020 years (e.g., the claimed savings for the Retrofit Program)
26 do not include any savings from the Interim Framework programs, with the exception of programs
27 delivered through the Local Program Fund.

- 1 b) See response OEB-3 a).

1 **INTERROGATORY RESPONSE - OEB-4**

2 **Question-4**

3 EXHIBIT REFERENCE:

4 **Exhibit 4, Tab 4, Schedule 2**

5
6 SUBJECT AREA:

7 **LRAM Variance Account**

8
9 Preamble:

10
11 The 2021 CDM Guidelines (section 8) require distributors filing an application for 2023 rates to seek
12 disposition of all outstanding LRAMVA balances related to previously established thresholds, including
13 approval of LRAM-eligible amounts in future years (arising from persisting savings) until a distributor's
14 next rebasing application, unless a distributor does not have complete information on eligible savings.
15 The CDM Guidelines indicate that distributors are eligible for LRAM for persisting impacts of Conservation
16 First Framework programs and Local Program Fund programs, but not for other IESO programs funded
17 through the Interim Framework or CDM activities funded through the 2021-2024 CDM Framework.

18 Question(s):

- 19 a) Due to the language in the 2021-2025 Approved Settlement Agreement, does Hydro Ottawa
20 intend to include CDM savings from ongoing IESO programs in 2021 and beyond in the LRAMVA
21 until its next rebasing, thus making it unable to comply with the Guidelines' direction for distributors
22 to seek disposition of all outstanding LRAMVA balances related to previously established
23 thresholds, even once final results from Interim Framework and CFF Wind-down activities are
24 known? Please describe as needed.

1 **RESPONSE:**

2

3 a) As part of the Original and Updated evidence related to Hydro Ottawa’s Custom IR Application (EB-
4 2019-0261), Hydro Ottawa had incorporated Conservation and Demand Management (“CDM”)
5 savings in the proposed 2021-2025 load forecast that related to distribution rate-funded CDM
6 activities, persisting CDM impacts from Conservation First Framework (“CFF”) wind-down programs
7 and previous CDM Frameworks as well as historical and forecast impacts of CDM programs funded
8 by the Independent Electricity System Operator (“IESO”) through the Interim Framework and 2021-
9 2024 CDM Framework. This load forecast approach with CDM savings appears to be consistent with
10 the latest Ontario Energy Board (“OEB”) Conservation and Demand Management Guidelines for
11 Electricity Distributors¹.

12

13 As part of the 2021-2025 Approved Settlement Agreement, the Parties² agreed that Hydro Ottawa’s
14 load forecast would not include any adjustments related to CDM other than those related to the wind
15 down of the CFF³ with the inclusion of the following statement:

16

17 “In removing CDM adjustments unrelated to the CFF wind-down, the Parties acknowledge that
18 Hydro Ottawa will include future CDM savings driven by the Independent Electricity System
19 Operator (IESO) or other provincial or federal initiatives in the LRAMVA. (With respect to potential
20 provincial initiatives, it is acknowledged that the Government of Ontario posted a regulatory
21 proposal on July 23, 2020 which contemplates the establishment of a new CDM framework for
22 the 2021-2024 period). The Parties further acknowledge that the OEB may set generic guidelines
23 to measure CDM savings outside the current CFF wind-down framework. However, any updated
24 OEB guidelines will not preclude Hydro Ottawa from bringing forward an LRAM claim, given both
25 known and unknown initiatives have been removed from the Load Forecast for which Hydro
26 Ottawa would have otherwise included in the base Load Forecast.

¹ Ontario Energy Board, *Conservation and Demand Management Guidelines for Electricity Distributors*, EB-2021-0106, (December 20, 2021), p.24

² Hydro Ottawa and the following intervenor groups: Building Owners and Managers Association, Consumers Council of Canada, Distributed Resource Coalition, Environmental Defence, Energy Probe Research Foundation, Pollution Probe, School Energy Coalition, Vulnerable Energy Consumers Coalition

³ Hydro Ottawa Limited, *2021-2025 Custom Incentive Rate-Setting Approved Settlement Proposal*, EB-2019-0261 (September 18, 2020), p. 24

1 The Parties agree that Hydro Ottawa has the ability to record and bring forward a request to
2 dispose it's LRAMVA for the impact of both known and unknown CDM initiatives. This agreement
3 shall not be construed as agreement to the disposition of such account. Parties are free to take
4 any position they deem appropriate at the time Hydro Ottawa seeks disposition of the LRAMVA."⁴

5
6 As discussed in Exhibit 4-4-1: Lost Revenue Adjustment Mechanism and per the Approved
7 Settlement Agreement, Hydro Ottawa intends to include CDM savings from ongoing IESO programs
8 impacting 2021 and beyond in the Lost Revenue Adjustment Mechanism Variance Account
9 ("LRAMVA") until its next rebasing. Hydro Ottawa intends to continue to rely on IESO's reported
10 results for in-service activities under its 2021-2024 Conservation and Demand Management
11 Framework Program Plan in calculating LRAMVA.

⁴Hydro Ottawa Limited, *2021-2025 Custom Incentive Rate-Setting Approved Settlement Proposal*, EB-2019-0261 (September 18, 2020), p. 24

INTERROGATORY RESPONSE - OEB-5

Question-5

EXHIBIT REFERENCE:

Ref 1: Exhibit 4, Tab 4, Schedule 2, Attachment 4-2-2_A_OEB Workform - LRAMVA_Workform_20220803.xlsb

Ref 2: 2016-2020 Approved Settlement Agreement, p. 57-58

SUBJECT AREA:

LRAM Variance Account

Preamble:

There appears to be some discrepancies when comparing Tab 2 of the LRAMVA Workform to the 2016-2020 Settlement Agreement in determining the LRAMVA Threshold.

Question(s):

a) Please clarify why there are slight discrepancies in the kWh reported for the Residential and GS < 50 kW classes per the table below. The differences reported creates a change in the LRAMVA amount requested for disposition. Where applicable, please update the LRAMVA Workform accordingly.

	Residential Class	
Year	Per LRAMVA Workform (kWh)	Per Settlement Agreement (kWh)
2018	39,439,000	39,437,000
2019	49,311,000	49,312,000
2020	59,189,000	59,186,000
	GS < 50 kW Class	
2019	32,451,000	32,452,000
2020	39,036,000	39,035,000

1 b) Please provide the calculation support for the kW and kWh reported for the GS 50 to 1,499 kW
2 class for the years 2018, 2019 and 2020. The values reported per the settlement agreement are in
3 kWh and do not reconcile with the values reported per the LRAMVA Workform.

4
5 **RESPONSE:**

6
7 a) Hydro Ottawa acknowledges that there are differences between the Lost Revenue Adjustment
8 Mechanism Variance Account (“LRAMVA”), in Attachment 4-4-2(A): OEB Workform - LRAMVA
9 Workform¹ (“2023 LRAMVA Workform”) and Hydro Ottawa’s 2016-2020 Approved Settlement
10 Agreement²: These differences are due to rounding between kWh’s and MWh’s. Accordingly, Hydro
11 Ottawa has provided the below updates organized by the respective affected exhibits.

12
13 **EXHIBIT 4-4-2: LRAM VARIANCE ACCOUNT**

14 Hydro Ottawa has changed these thresholds to match the 2016-2020 Approved Settlement
15 Agreement kWhs as displayed in the table from part a) of this question. Please refer to Attachment
16 OEB-6 (A): Rsvd OEB 2015-2027 LRAMVA Workform in IR-OEB-6, which is a replacement of
17 Attachment 4-4-2(A): OEB Workform - LRAMVA Workform (“2023 LRAMVA Workform”) that was
18 originally submitted in Exhibit 4-4-2: LRAM Variance Account.

19
20 As a result of the kWh threshold changes, the total LRAMVA debit balance in Tab 1. *LRAMVA*
21 *Summary* increased to \$2,048,767; an increase of \$17. A summary of these changes is outlined in
22 Table A below. Please note these changes have only impacted the Residential and GS<50kW
23 customer classes.

24

¹ Hydro Ottawa Limited, *2023 Electricity Distribution Rate Application*, Attachment 4-4-2(A): OEB Workform - LRAMVA Workform Tab 2. LRAMVA Threshold of Exhibit 4-4-2: LRAM Variance Account
² Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-Setting Approved Settlement Proposal*, EB-2015-0004 (December 7, 2015), Attachment 4, p. 57

1

Table A - LRAMVA Workform - Differences due to kWh Threshold Changes³

Reference	Description	Residential	GS<50 kW	Total ⁴
Attachment OEB-6(A) Revised LRAMVA Workform	Principle LRAMVA Balance (2011-2022) - Rows 73 to 89	\$2,695,705	\$1,413,348	\$1,869,852
Attachment 4-4-2 (A) Original LRAMVA Workform	Principle LRAMVA Balance (2011-2022) - Rows 73 to 89	\$2,695,689	\$1,413,348	\$1,869,836
Principle Difference due to kWh Threshold Changes		\$16	\$0	\$16
Attachment OEB-6(A) Revised LRAMVA Workform	Interest LRAMVA Balance (2011-2022) - Row 91	\$192,301	\$76,253	\$178,915
Attachment 4-4-2 (A) Original LRAMVA Workform	Interest LRAMVA Balance (2011-2022) - Row 91	\$192,300	\$76,254	\$178,914
Interest Difference due to kWh Threshold Changes		\$1	\$0	\$1
Attachment OEB-6(A) Revised LRAMVA Workform	Total LRAMVA Balance (2011-2022) - Row 92	\$2,888,006	\$1,489,601	\$2,048,767
Attachment 4-4-2 (A) Original LRAMVA Workform	Total LRAMVA Balance (2011-2022) - Row 92	\$2,887,989	\$1,489,601	\$2,048,750
TOTAL DIFFERENCE DUE TO kWh THRESHOLD CHANGES		\$17	\$0	\$17

2

3

EXHIBIT 9-1-1: SUMMARY OF CURRENT DEFERRAL AND VARIANCE ACCOUNTS

4

While reviewing the related workform for this change, Hydro Ottawa noticed the claim amount entered in Attachment 9-1-1(A): DVA Workform for the LRAMVA Account 1568 did not match the claim amount in the original LRAMVA Workform, with a difference of \$3.10. Please see Table B showing this difference.

8

9

Table B - LRAMVA Workform vs. DVA Workform - Original Submissions

Reference	Total	Principle	Interest
Attachment 4-4-2 (A) Original LRAMVA Workform	\$2,048,750	\$1,869,836	\$178,914
Attachment 9-1-1 (A) Original DVA Workform	\$2,048,747	\$1,869,833	\$178,913
DIFFERENCE BETWEEN ORIGINAL LRAMVA WF AND DVA WF⁵	\$3	\$2	\$1

10

³ Totals may not sum due to rounding

⁴ This total includes balances for the other customer classes where the balance has not changed: GS 50 TO 1,499 KW, GS 1,500 TO 4,999, Large User, Street Lighting

⁵ Totals may not sum due to rounding

1 Table C below outlines the total change to the LRAMVA claim amount being submitted in Attachment
 2 OEB-5(B): Rsvd OEB Workform - Deferral and Variance Account (Continuity Schedule) (“DVA
 3 Workform”).
 4

5 **Table C - Total for LRAMVA in the Revised DVA Workform**

Reference	Total (\$)	Principle (\$)	Interest (\$)
Attachment 9-1-1 (A) Original DVA Workform	\$2,048,747	\$1,869,833	\$178,913
Adjustment for LRAMVA Threshold Changes (Table A)	\$17	\$16	\$1
Adjustment for Difference between Original LRAMVA WF and DVA WF (Table B)	\$3	\$2	\$1
REVISED LRAMVA CLAIM AMOUNT IN DVA WORKFORM⁶	\$2,048,767	\$1,869,852	\$178,915

6
 7 **EXHIBIT 9-3-1: DISPOSITION OF DEFERRAL AND VARIANCE ACCOUNTS**

8 As a result of the above noted changes, Hydro Ottawa has updated Table 1 - Proposed DVA
 9 Dispositions in Exhibit 9-3-1: Disposition of Deferral and Variance Accounts for the LRAMVA
 10 disposition changes. This has changed the Group 2 sub-total and the total DVA balance, all Group 1
 11 details and sub-totals remain the same. Please refer to Table 1 - As Revised below for the revised
 12 Proposed DVA Dispositions.
 13

⁶ Totals may not sum due to rounding

1
2

Table 1 – AS ORIGINALLY SUBMITTED - Proposed DVA Dispositions

Group	USofA Number	Group 1 & LRAMVA Deferral/Variance Account Description	Amount (\$)	Principal (\$)	Interest (\$)
1	1550	LV Variance Account	\$(387,897)	\$(381,170)	\$(6,727)
1	1551	Smart Metering Entity Charge Variance Account	\$(236,496)	\$(232,697)	\$(3,800)
1	1580	RSVA - Wholesale Market Service Charge	\$4,392,262	\$4,316,454	\$75,807
1	1580	Variance WMS - Sub-account CBR Class A	\$0	\$0	\$0
1	1580	Variance WMS - Sub-account CBR Class B	\$(704,657)	\$(693,237)	\$(11,419)
1	1584	RSVA - Retail Transmission Network Charge	\$7,551,141	\$7,422,887	\$128,255
1	1586	RSVA - Retail Transmission Connection Charge	\$(1,932,479)	\$(1,899,873)	\$(32,606)
1	1588	RSVA - Power (excluding Global Adjustment)	\$2,377,609	\$2,336,127	\$41,482
1	1589	RSVA - Global Adjustment	\$(6,858,461)	\$(6,731,890)	\$(126,571)
1	1595	Disposition and Recovery/Refund of Regulatory Balances (2019)	\$22,670	\$146,122	\$(123,452)
		Group 1 Subtotal (Excluding Global Adjustment)	\$11,082,153	\$11,014,612	\$67,541
		Global Adjustment	\$(6,858,461)	\$(6,731,890)	\$(126,571)
		Group 1 TOTAL	\$4,223,692	\$4,282,722	\$(59,030)
2	1568	LRAM Variance Account ("LRAMVA")	\$2,048,747	\$1,869,833	\$178,913
		Group 2 Sub-Total	\$2,048,747	\$1,869,833	\$178,913
		TOTAL DVA BALANCE (Group 1 & Group 2 - LRAMVA only) TO BE MOVED TO 1595 (2023)⁷	\$6,272,439	\$6,152,556	\$119,883

3

⁷ Totals may not sum due to rounding

1

Table 1 - AS REVISED - Proposed DVA Dispositions (LRAMVA Changes)

Group	USofA Number	Group 1 & LRAMVA Deferral/Variance Account Description	Amount (\$)	Principal (\$)	Interest (\$)
1	1550	LV Variance Account	\$(387,897)	\$(381,170)	\$(6,727)
1	1551	Smart Metering Entity Charge Variance Account	\$(236,496)	\$(232,697)	\$(3,800)
1	1580	RSVA - Wholesale Market Service Charge	\$4,392,262	\$4,316,454	\$75,807
1	1580	Variance WMS - Sub-account CBR Class A	\$0	\$0	\$0
1	1580	Variance WMS - Sub-account CBR Class B	\$(704,657)	\$(693,237)	\$(11,419)
1	1584	RSVA - Retail Transmission Network Charge	\$7,551,141	\$7,422,887	\$128,255
1	1586	RSVA - Retail Transmission Connection Charge	\$(1,932,479)	\$(1,899,873)	\$(32,606)
1	1588	RSVA - Power (excluding Global Adjustment)	\$2,377,609	\$2,336,127	\$41,482
1	1589	RSVA - Global Adjustment	\$(6,858,461)	\$(6,731,890)	\$(126,571)
1	1595	Disposition and Recovery/Refund of Regulatory Balances (2019)	\$22,670	\$146,122	\$(123,452)
		Group 1 Subtotal (Excluding Global Adjustment)	\$11,082,153	\$11,014,612	\$67,541
		Global Adjustment	\$(6,858,461)	\$(6,731,890)	\$(126,571)
		Group 1 TOTAL	\$4,223,692	\$4,282,722	\$(59,030)
2	1568	LRAM Variance Account ("LRAMVA")	\$2,048,767	\$1,869,852	\$178,915
		Group 2 Sub-Total	\$2,048,767	\$1,869,852	\$178,915
		TOTAL DVA BALANCE (Group 1 & Group 2 - LRAMVA only) TO BE MOVED TO 1595 (2023)⁸	\$6,272,458	\$6,152,574	\$119,884

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 7

Though there are changes to the LRAMVA balances, the proposed rate riders for LRAMVA Account 1568 for years 2023 to 2025 outlined in Tables 8, 9 and 10 remain unchanged. For reference, revised tables have been provided below. Please note the totals in the revised proposed rate riders for Account 1568 may not sum with the revised LRAMVA claim in the DVA Workform due to rounding.

⁸ Totals may not sum due to rounding

1 **Table 8 - AS ORIGINALLY SUBMITTED - Proposed Rate Riders for Accounts 1568 (2023)**

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	324,728	\$962,663	0.2500	\$
General Service < 50 kW	kWh	680,716,895	\$496,534	0.0007	\$/kWh
General Service 50 to 1,499 kW	kW	6,559,760	\$(1,624,741)	-0.2477	\$/kWh
General Service 1,500 to 4,999 kW	kW	1,418,024	\$286,560	0.2021	\$/kWh
Large Use	kW	1,029,229	\$207,004	0.2011	\$/kWh
Unmetered Scattered Load	kWh	14,083,301	\$0	0.0000	\$/kWh
Sentinel Lighting	kWh	122	\$0	0.0000	\$/kWh
Street Lighting	kW	63,940	\$126,198	1.9737	\$/kW
TOTAL			\$454,218		

2
 3 **Table 8 - AS REVISED - Proposed Rate Riders for Accounts 1568 (2023)**

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	324,728	\$962,669	0.2500	\$
General Service < 50 kW	kWh	680,716,895	\$496,534	0.0007	\$/kWh
General Service 50 to 1,499 kW	kW	6,559,760	\$(1,624,741)	-0.2477	\$/kWh
General Service 1,500 to 4,999 kW	kW	1,418,024	\$286,560	0.2021	\$/kWh
Large Use	kW	1,029,229	\$207,004	0.2011	\$/kWh
Unmetered Scattered Load	kWh	14,083,301	\$0	0.0000	\$/kWh
Sentinel Lighting	kWh	122	\$0	0.0000	\$/kWh
Street Lighting	kW	63,940	\$126,198	1.9737	\$/kW
TOTAL			\$454,224		

1 **Table 9 - AS ORIGINALLY SUBMITTED - Proposed Rate Riders for Accounts 1568 (2024)**

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	324,728	\$962,663	0.2500	\$
General Service < 50 kW	kWh	680,716,895	\$496,534	0.0007	\$/kWh
General Service 50 to 1,499 kW	kW	6,559,760	\$(1,624,741)	-0.2477	\$/kWh
General Service 1,500 to 4,999 kW	kW	1,418,024	\$286,560	0.2021	\$/kWh
Large Use	kW	1,029,229	\$207,004	0.2011	\$/kWh
Unmetered Scattered Load	kWh	14,083,301	\$0	0.0000	\$/kWh
Sentinel Lighting	kWh	122	\$0	0.0000	\$/kWh
Street Lighting	kW	63,940	\$469,244	7.3388	\$/kW
TOTAL			\$797,265		

2
 3 **Table 9- AS REVISED - Proposed Rate Riders for Accounts 1568 (2024)**

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	324,728	\$962,669	0.2500	\$
General Service < 50 kW	kWh	680,716,895	\$496,534	0.0007	\$/kWh
General Service 50 to 1,499 kW	kW	6,559,760	\$(1,624,741)	-0.2477	\$/kWh
General Service 1,500 to 4,999 kW	kW	1,418,024	\$286,560	0.2021	\$/kWh
Large Use	kW	1,029,229	\$207,004	0.2011	\$/kWh
Unmetered Scattered Load	kWh	14,083,301	\$0	0.0000	\$/kWh
Sentinel Lighting	kWh	122	\$0	0.0000	\$/kWh
Street Lighting	kW	63,940	\$469,244	7.3388	\$/kW
TOTAL			\$ 797,271		

1 **Table 10 - AS ORIGINALLY SUBMITTED- Proposed Rate Riders for Accounts 1568 (2025)**

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	324,728	\$962,663	0.2500	\$
General Service < 50 kW	kWh	680,716,895	\$496,534	0.0007	\$/kWh
General Service 50 to 1,499 kW	kW	6,559,760	\$(1,624,741)	-0.2477	\$/kWh
General Service 1,500 to 4,999 kW	kW	1,418,024	\$286,560	0.2021	\$/kWh
Large Use	kW	1,029,229	\$207,004	0.2011	\$/kWh
Unmetered Scattered Load	kWh	14,083,301	\$0	0.0000	\$/kWh
Sentinel Lighting	kWh	122	\$0	0.0000	\$/kWh
Street Lighting	kW	63,940	\$469,244	7.3388	\$/kW
TOTAL			\$797,265		

2
 3 **Table 10- AS REVISED- Proposed Rate Riders for Accounts 1568 (2025)**

Rate Class	Units	kW / kWh / # of Customers	Allocated Balance	Rate Rider	Billing Determinant
Residential	# of Customers	324,728	\$962,669	0.2500	\$
General Service < 50 kW	kWh	680,716,895	\$496,534	0.0007	\$/kWh
General Service 50 to 1,499 kW	kW	6,559,760	\$(1,624,741)	-0.2477	\$/kWh
General Service 1,500 to 4,999 kW	kW	1,418,024	\$286,560	0.2021	\$/kWh
Large Use	kW	1,029,229	\$207,004	0.2011	\$/kWh
Unmetered Scattered Load	kWh	14,083,301	\$0	0.0000	\$/kWh
Sentinel Lighting	kWh	122	\$0	0.0000	\$/kWh
Street Lighting	kW	63,940	\$469,244	7.3388	\$/kW
TOTAL			\$ 797,271		

4
 5 **EXHIBIT 8-12-1: BILL IMPACT INFORMATION**

6 As the proposed applicable rate rider for Account 1568 for years 2023 to 2025 remains the same for
 7 all customer classes, there are no changes to the previously provided bill impact information.

8
 9 b) Hydro Ottawa's GS 50 to 1,499 customer class only requires kW thresholds in the LRAMVA
 10 calculation. Hydro Ottawa notes that the kW thresholds per the 2016-2020 Approved Settlement
 11 Agreement⁹ were updated in IR-OEB-173, Table C of Hydro Ottawa's 2021-2025 Custom IR

⁹ Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Approved Settlement Proposal, EB-2015-0004 (December 7, 2015), Attachment 4, p. 58

1 Application¹⁰. An error, in the customer's favor, had been identified. These corrected thresholds match
2 the 2023 LRAMVA Workform that was submitted in Exhibit 4-4-2: LRAM Variance Account. For
3 reference purposes, please see Attachment IR-OEB-5(A): Hydro Ottawa's 2021-2025 Custom IR
4 Application IR-OEB-173.

5
6 In reviewing data related to this question, Hydro Ottawa noticed an amount in kWh's in Tab 2.
7 *LRAMVA Threshold* of the 2023 LRAMVA Workform for 2018 customer class GS 50 to 1,499. As this
8 is not part of the calculation and should be zero, Hydro Ottawa has changed cell F30 to zero in OEB-
9 6 (A): Rsvd OEB 2015-2027 LRAMVA Workform per details in a) above. This change does not impact
10 the LRAMVA amount.

¹⁰ Hydro Ottawa Limited, *2021-2025 Custom Incentive Rate-Setting Distribution Rate Application - Interrogatory Response IRR-OEB-173*, EB-2019-0261 (June 12, 2020), Table C - CDM Thresholds, p. 7



1 **INTERROGATORY RESPONSE - OEB-173**

2 **9-Staff-6**

3 EXHIBIT REFERENCE:

4 **LRAMVA Workform E/Tab 2**

5 **EB-2015-0004/Settlement Proposal/Attachment 4 (pp. 57-58)**

6 **EB-2015-0004/IRRs to VECC/Question #27/ PDF p. 59 of 159**

7

8 SUBJECT AREA: Deferral and Variance Accounts

9

10 Preamble:

11

12 In this proceeding, Workform E included a LRAMVA threshold of 27,452,000 kWh, which are the
 13 forecast savings applied against actual savings in 2016. An extract of the LRAMVA threshold
 14 (and its rate class breakdown) is provided below:

15

	Total	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Street Lighting
	kWh	kWh	kWh	kW	kW	kW	kWh	kW
kWh	27,452,000	16,725,000	10,727,000					
kW	191,563			191,563				
Summary		16725000	10727000	191563	0	0	0	0
Threshold	2016							
Source of Threshold	2016-2020 Settlement Agreement, p. 57 & 58							

17 Source: LRAMVA Workform E, Tab 2

18 In the 2016-2020 Custom IR Settlement Proposal, the following approved CDM adjustments
 19 were included in Attachment 4:

20 **9-Staff-6-1:**

CDM Adjustment

	2016	2017	2018	2019	2020
RESIDENTIAL	16,725	28,574	39,437	49,312	59,186
GENERAL SERVICE <50KW	10,727	18,627	25,869	32,452	39,035
GENERAL SERVICE 50-1000KW Non Interval	37,380	64,684	89,512	111,938	134,259
GENERAL SERVICE 50-1000KW Interval	32,771	57,538	80,453	101,447	122,573
GENERAL SERVICE 1000-1500KW	9,666	16,844	23,414	29,368	35,296
GENERAL SERVICE 1500-5000 KW	0	0	0	0	0
LARGE USER	0	0	0	0	0
STREETLIGHTING	0	0	0	0	0
MU	0	0	0	0	0
SENTINEL LIGHTS	0	0	0	0	0
TOTAL MWH SALES	107,269	186,267	258,685	324,517	390,349

1

2 9-Staff-6-2:

CDM

	2016	2017	2018	2019	2020
GENERAL SERVICE 50-1000KW Non Interval	5,215	10,723	16,118	20,642	25,146
GENERAL SERVICE 50-1000KW Interval	6,730	11,679	16,227	20,422	24,643
GENERAL SERVICE 1000-1500KW	1,825	3,220	4,506	5,663	6,814
GENERAL SERVICE 1500-5000 KW	0	0	0	0	0
STANDBY	0	0	0	0	0
LARGE USER	0	0	0	0	0
STREETLIGHTING	0	0	0	0	0
SENTINEL LIGHTS	0	0	0	0	0
TOTAL	13,770	25,622	36,851	46,727	56,603

3

4 Source: EB-2015-0004, Settlement Proposal, refiled December 7, 2015, Attachment 4

5 The LRAMVA threshold (kWh) in the Settlement Proposal is consistent with the cumulative
 6 savings embedded in the 2016 to 2020 load forecasts.

7 9-Staff-6-3:

Table 1 - CDM Adjustment to Load Forecast (MWh)

	Yearly Target	Savings related to Current Year A	Savings Related to Previous Year B	Total Savings in Year A+B	Cumulative Savings
2014	42,400	7,611		7,611	7,611
2015	39,500	19,750	20,656	40,406	48,017
2016	79,000	39,500	19,750	59,250	107,267
2017	79,000	39,500	39,500	79,000	186,267
2018	65,833	32,917	39,500	72,417	258,684
2019	65,833	32,917	32,917	65,834	324,518
2020	65,833	32,917	32,917	65,834	390,352
2015 to 2020 CDM Impact				390,352	

2 Source: EB-2015-0004, IRR 3-VECC#27

3

4 Question(s):

5

6 a) Please reconcile the LRAMVA threshold (199,563 kW) in Tab 2 of the LRAMVA workform
 7 with Table 2 in the preamble, and explain whether the LRAMVA threshold (kW) used in
 8 the lost revenue calculation is correct.

9

10 b) Please provide the inputs and assumptions used to arrive at the class breakdown of
 11 CDM adjustments of 199,543 kW for the GS>kW class.

12

13 c) For consistency, please revise Tab 2 of LRAMVA Workform E to show the LRAMVA
 14 threshold (kWh) for all classes, in order to match the approved LRAMVA threshold of
 15 107,267,000 kWh in 2016.

16

17 **RESPONSE:**

18

19 a) Hydro Ottawa has interpreted this interrogatory as intending to refer to the Lost Revenue
 20 Adjustment Mechanism Variance Account (“LRAMVA”) threshold in tab 2 as 191,563 kW.

1 In Attachment 4 of the Approved Settlement Agreement governing the utility’s 2016-2020
2 rate term, three tables were provided in relation to Hydro Ottawa’s Demand Forecast.
3 These tables were titled as follows:

4
5
6
7
8

- Hydro Ottawa Demand Forecast CDM Built In;
- Hydro Ottawa Demand Forecast without CDM; and
- CDM

9 In conducting its lost revenue calculation, Hydro Ottawa discovered that the second and
10 third tables in the above list/Attachment 4 of the Approved Settlement Agreement
11 contained data entry errors. More specifically, the third table (CDM) only presented a
12 single month’s cumulative peak demand rather than the 12 months’ billing sales peaks.
13 When these errors are corrected, the result is a higher threshold and a lower LRAM
14 claim in this Application than the tables presented in the above list/Approved Settlement
15 Agreement would produce.

16
17
18
19

Hydro Ottawa has prepared Tables A, B, and C below, which respectively correspond to
the first, second, and third tables in the foregoing list, as follows:

- Table A provides the demand forecast with CDM incorporated and is as
presented in Exhibit C-1-1: Load Forecast of the original evidence in the utility’s
2016-2020 rate application,¹ as well as in the Approved Settlement Agreement.
The only modification to the table that has been made relative to the original
version is the addition of a column for the year 2015, which has been included to
more easily identify the cumulative balance from 2015. (A column for 2015 data
has likewise been included in Tables B and C as well).

28 ¹ Hydro Ottawa Limited, *2016-2020 Custom Incentive Rate-setting Distribution Rate Application*, EB-2015-0004 (April
29 29, 2015).



1 • Table B represents a revised version of the utility’s Demand Forecast without
2 CDM.

3
4 • Table C represents a revised version of the utility’s CDM thresholds (and is
5 calculated by subtracting the values in Table A from the values in Table B).

6
7 As noted above, the correction of the data entry errors results in a higher threshold and
8 a lower LRAM claim than the tables presented in the Approved Settlement Agreement
9 would produce.

10
11 The 2016 threshold in Table C matches the threshold presented in UPDATED
12 Attachment 4-5-2(E): OEB Workform - 2016 Adjustments - LRAM VA Workform.

1

Table A – Hydro Ottawa Demand Forecast CDM Built In

	2015	2016	2017	2018	2019	2020
General Service 50 to 1,000 kW Non Interval	3,693,048	3,533,354	3,406,354	3,301,064	3,208,582	3,123,291
General Service 50 to 1,000 kW Interval	2,618,770	2,725,183	2,740,805	2,766,375	2,798,890	2,835,076
General Service 1,000 to 1,499 kW	758,963	769,442	761,481	756,911	754,458	753,212
General Service 1,500 to 4,999 kW	1,885,562	1,847,365	1,877,691	1,916,044	1,957,009	2,001,525
Standby	4,800	4,800	4,800	4,800	4,800	4,800
Large User	1,121,629	1,121,449	1,119,726	1,118,300	1,115,702	1,112,342
Street Lighting	123,144	123,144	123,144	123,144	123,144	123,144
Sentinel Lighting	216	216	216	216	216	216
TOTAL	10,206,132	10,124,953	10,034,217	9,986,854	9,962,801	9,953,606

2

3

Table B – Hydro Ottawa Demand Forecast without CDM

	2015	2016	2017	2018	2019	2020
General Service 50 to 1,000 kW Non Interval	3,736,059	3,629,693	3,572,522	3,530,611	3,495,485	3,467,282
General Service 50 to 1,000 kW Interval	2,651,309	2,799,115	2,870,356	2,947,322	3,026,976	3,110,601
General Service 1,000 to 1,499 kW	768,413	790,734	798,525	808,360	818,972	830,735
General Service 1,500 to 4,999 kW	1,885,562	1,847,365	1,877,691	1,916,044	1,957,009	2,001,525
Standby	4,800	4,800	4,800	4,800	4,800	4,800
Large User	1,121,629	1,121,449	1,119,726	1,118,300	1,115,702	1,112,342
Street Lighting	123,144	123,144	123,144	123,144	123,144	123,144
Sentinel Lighting	216	216	216	216	216	216
TOTAL	10,291,132	10,316,516	10,366,980	10,448,797	10,542,304	10,650,645

4

1

Table C – CDM (Thresholds)

	2015	2016	2017	2018	2019	2020
General Service 50 to 1,000 kW Non Interval	43,011	96,339	166,168	229,547	286,903	343,991
General Service 50 to 1,000 kW Interval	32,539	73,932	129,551	180,947	228,086	275,525
General Service 1,000 to 1,499 kW	9,450	21,292	37,044	51,449	64,514	77,523
General Service 1,500 to 4,999 kW	0	0	0	0	0	0
Standby	0	0	0	0	0	0
Large User	0	0	0	0	0	0
Street Lighting	0	0	0	0	0	0
Sentinel Lighting	0	0	0	0	0	0
TOTAL	85,000	191,563	332,763	461,943	579,503	697,039

2

3 b) Please see the response to part (a) above.

4

5 c) Please see the response to interrogatory OEB-38 for a revised version of UPDATED
 6 Attachment 4-5-2(E): OEB Workform - 2016 Adjustments - LRAM VA Workform related
 7 to other interrogatory responses. This has been filed as excel Attachment OEB-38(O):
 8 REVISED OEB Workform - 2016 Adjustments - LRAM VA Workform.



2023 Deferral/Variance Account Workform

Utility Name	Hydro Ottawa Limited
Service Territory	
Assigned EB Number	EB-2022-0042
Name of Contact and Title	April Barrie, Director, Regulatory Affairs
Phone Number	613-738-5499 ext. 2106
Email Address	RegulatoryAffairs@HydroOttawa.com

To determine the first year the continuity schedules in tabs 2a and 2b will be generated for input, answer the following questions:

For all the the responses below, when selecting a year, select the year relating to the account balance. For example, if the 2020 balances that were reviewed in the 2022 rate application were to be selected, select 2020.

Question 1

For Accounts 1588 and 1589,

Please indicate the year the account balances were last disposed on a final basis for information purposes.

Year Selected

2022

Determine whether scenario a or b below applies, then select the appropriate year.

- a) If the accounts balances were last approved on a final basis, select the year of the year-end balances that were last approved on a final basis.
- b) If the accounts balances were last approved on an interim basis, and
 - i) there are no changes to the previously approved interim balances, select the year of the year-end balances that were last approved for disposition on an interim basis.
 - ii) there are changes to the previously approved interim balaces, select the year of the year-end balances that were last approved for disposition on a final basis.

2020

Question 2

For the remaining Group 1 DVAs,

Please indicate the year of the account balances were last disposed on a final basis for information purposes.

2021

Determine whether scenario a or b below applies, then select the appropriate year.

a) If the accounts balances were last approved on a final basis, select the year of the year-end balances that were last approved on a final basis.

b) If the accounts were last approved on an interim basis, and

i) there are no changes to the previously approved interim balances, select the year of the year-end balances that were last approved for disposition on an interim basis.

ii) there are changes to the previously approved interim balances, select the year of the year-end balances that were last approved for disposition on a final basis.

2020

Question 3

Select the earliest account balance vintage year in which there is a balance in Account 1595

(e.g. If 2016 is the earliest vintage year in which there is a balance in a 1595 sub-account, select 2016)

2018

Question 4

Select the earlier of i) the year of the year-end balances in which Group 2 DVAs were last disposed and ii) the earliest year of the year-end balances in which Group 2 DVAs started to accumulate.

2019

To determine whether tabs 6 and 6.2 will be generated, answer the following questions:

Question 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 selected in #1 above to the year requested for disposition) or forecasted in the test year?

Yes

Question 6

Did you have any Class A customers at any point during the period where the balance in Account 1580, Sub-account CBR Class B accumulated (i.e. from the year selected in #2 above to the year requested for disposition) or the forecasted in the test year?

Yes

General Notes

Notes

 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.

 White cells contain fixed values, automatically generated values or formulae.

 Pale grey cell represent auto-populated RRR data

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of preparing your rate 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 or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

Energy Board
Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

		2018									
Account Descriptions	Account Number	Opening Principal Amounts as of Jan-1-18	Transactions Debit / (Credit) during 2018	OEB-Approved Disposition during 2018	Principal Adjustments(I) during 2018	Closing Principal Balance as of Dec-31-18	Opening Interest Amounts as of Jan-1-18	Interest Jan-1 to Dec-31-18	OEB-Approved Disposition during 2018	Interest Adjustments(I) during 2018	Closing Interest Amounts as of Dec-31-18
Group 1 Accounts											
LV Variance Account	1550	\$0				\$0	\$0				\$0
Smart Metering Entity Charge Variance Account	1551	\$0				\$0	\$0				\$0
RSVA - Wholesale Market Service Charge ¹	1580	\$0				\$0	\$0				\$0
Variance WMS – Sub-account CBR Class A ²	1580	\$0				\$0	\$0				\$0
Variance WMS – Sub-account CBR Class B ²	1580	\$0				\$0	\$0				\$0
RSVA - Retail Transmission Network Charge	1584	\$0				\$0	\$0				\$0
RSVA - Retail Transmission Connection Charge	1586	\$0				\$0	\$0				\$0
RSVA - Power (excluding Global Adjustment) ³	1588	\$0				\$0	\$0				\$0
RSVA - Global Adjustment ⁴	1589	\$0				\$0	\$0				\$0
Disposition and Recovery/Refund of Regulatory Balances (2018) ⁵	1595	\$0				\$0	\$0				\$0
Disposition and Recovery/Refund of Regulatory Balances (2019) ⁵	1595	\$0				\$0	\$0				\$0
Disposition and Recovery/Refund of Regulatory Balances (2020) ⁵	1595	\$0				\$0	\$0				\$0
Disposition and Recovery/Refund of Regulatory Balances (2021) ⁵	1595	\$0				\$0	\$0				\$0
Disposition and Recovery/Refund of Regulatory Balances (2022) ⁵	1595	\$0				\$0	\$0				\$0
<i>Refer to the Filing Requirements for Account 1595 disposition eligibility.</i>											
Group 1 total (including Account 1589)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Group 1 total (excluding Account 1589)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RSVA - Global Adjustment	1589	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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)

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.

1) If the LDC's rate year begins on January 1, 2023, the projected interest is recorded from January 1, 2022 to December 31, 2022 on the December 31, 2021 balances, adjusted to remove balances approved for disposition in the 2022 rate decision.

2) If the LDC's rate year begins on May 1, 2023, the projected interest is recorded from January 1, 2022 to April 30, 2023 on the December 31, 2021 balances, adjusted to remove balances approved for disposition in the 2022 rate decision.

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. 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.

Refer to Filing Requirements for disposition eligibility of the sub-accounts. Select "yes" column BU if the sub-account is requested for disposition. Note that Accounts 1595 (2020), (2021) and (2022) will not be eligible for disposition in the 2023 rate application.

New accounting guidance effective January 1, 2019 for Accounts 1588 and 1589 was issued Feb. 21, 2019 titled Accounting Procedures Handbook Update - Accounting Guidance Related to Commodity Pass-Through Accounts 1588 & 1589. The amount in the "Transactions" column in this DVA Continuity Schedule are to equal the transactions in the General Ledger (excluding any amounts approved for disposition, which is shown separately in the "OEB Approved Disposition" columns). Any true-ups/adjustments/reversals needed to derive the claim amount must be shown separately in the "Principal Adjustments" columns of this DVA Continuity Schedule.

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 at the December year-end, the balance must be explained.

RRR balance for Account 1580 RSVA - Wholesale Market Service Charge should equal to the control account as reported in the RRR. This would include the balance for Account 1580, Variance WMS – Sub-account CBR Class B.

Energy Board
Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

Account Descriptions	Account Number	2019									2020										
		Opening Principal Amounts as of Jan-1-19	Transactions(I) Debit / (Credit) during 2019	OEB-Approved Disposition during 2019	Principal Adjustments(I) during 2019	Closing Principal Balance as of Dec-31-19	Opening Interest Amounts as of Jan-1-19	Interest Jan-1 to Dec-31-19	OEB-Approved Disposition during 2019	Interest Adjustments(I) during 2019	Closing Interest Amounts as of Dec-31-19	Opening Principal Amounts as of Jan-1-20	Transactions(I) Debit / (Credit) during 2020	OEB-Approved Disposition during 2020	Principal Adjustments(I) during 2020	Closing Principal Balance as of Dec-31-20	Opening Interest Amounts as of Jan-1-20	Interest Jan-1 to Dec-31-20	OEB-Approved Disposition during 2020	Interest Adjustments(I) during 2020	Closing Interest Amounts as of Dec-31-20
Group 1 Accounts																					
LV Variance Account	1550	\$0				\$0	\$0				\$0				\$0	\$0					\$0
Smart Metering Entity Charge Variance Account	1551	\$0				\$0	\$0				\$0				\$0	\$0					\$0
RSVA - Wholesale Market Service Charge ^a	1580	\$0				\$0	\$0				\$0				\$0	\$0					\$0
Variance WMS – Sub-account CBR Class A ^b	1580	\$0				\$0	\$0				\$0				\$0	\$0					\$0
Variance WMS – Sub-account CBR Class B ^b	1580	\$0				\$0	\$0				\$0				\$0	\$0					\$0
RSVA - Retail Transmission Network Charge	1584	\$0				\$0	\$0				\$0				\$0	\$0					\$0
RSVA - Retail Transmission Connection Charge	1586	\$0				\$0	\$0				\$0				\$0	\$0					\$0
RSVA - Power (excluding Global Adjustment) ^f	1588	\$0				\$0	\$0				\$0				\$0	\$0					\$0
RSVA - Global Adjustment ⁴	1589	\$0				\$0	\$0				\$0				\$0	\$0					\$0
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595	\$0				\$0	\$0				\$0				\$0	\$0					\$0
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595	\$0				\$0	\$0				\$0				\$0	\$0					\$0
Disposition and Recovery/Refund of Regulatory Balances (2020) ³	1595	\$0				\$0	\$0				\$0				\$0	\$0					\$0
Disposition and Recovery/Refund of Regulatory Balances (2021) ³	1595	\$0				\$0	\$0				\$0				\$0	\$0					\$0
Disposition and Recovery/Refund of Regulatory Balances (2022) ³	1595	\$0				\$0	\$0				\$0				\$0	\$0					\$0
<i>Refer to the Filing Requirements for Account 1595 disposition eligibility.</i>																					
Group 1 total (including Account 1589)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Group 1 total (excluding Account 1589)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RSVA - Global Adjustment	1589	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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

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.

- 1) If the LDC's rate year begins on January 1, 2023, the projected interest is recorded from January 1, 2022 to December 31, 2022 on the December 31, 2021 balances, adjusted to remove balances approved for disposition in the 2022 rate decision.
- 2) If the LDC's rate year begins on May 1, 2023, the projected interest is recorded from January 1, 2022 to April 30, 2023 on the December 31, 2021 balances, adjusted to remove balances approved for disposition in the 2022 rate decision.

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. 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.

Refer to Filing Requirements for disposition eligibility of the sub-accounts. Select "yes" column BU if the sub-account is requested for disposition. Note that Accounts 1595 (2020), (2021) and (2022) will not be eligible for disposition in the 2023 rate application.

New accounting guidance effective January 1, 2019 for Accounts 1588 and 1589 was issued Feb. 21, 2019 titled Accounting Procedures Handbook Update - Accounting Guidance Related to Commodity Pass-Through Accounts 1588 & 1589. The amount in the "Transactions" column in this DVA Continuity Schedule are to equal the transactions in the General Ledger (excluding any amounts approved for disposition, which is shown separately in the "OEB Approved Disposition" columns). Any true-ups/adjustments/reversals needed to derive the claim amount must be shown separately in the "Principal Adjustments" columns of this DVA Continuity Schedule.

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 at the December year-end, the balance must be explained.

RRR balance for Account 1580 RSVA - Wholesale Market Service Charge should equal to the control account as reported in the RRR. This would include the balance for Account 1580, Variance WMS – Sub-account CBR Class B.

Energy Board
Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

0.014975

Account Descriptions	Account Number	2021										2022				Projected Interest on Dec-31-21 Balances			
		Opening Principal Amounts as of Jan-1-21	Transactions Debit/(Credit) during 2021	OEB-Approved Disposition during 2021	Principal Adjustments(I) during 2021	Closing Principal Balance as of Dec-31-21	Opening Interest Amounts as of Jan-1-21	Interest Jan-1 to Dec-31-21	OEB-Approved Disposition during 2021	Interest Adjustments(I) during 2021	Closing Interest Amounts as of Dec-31-21	Principal Disposition during 2022 - instructed by OEB	Interest Disposition during 2022 - instructed by OEB	Closing Principal Balances as of Dec 31-21 Adjusted for Dispositions during 2022	Closing Interest Balances as of Dec 31-21 Adjusted for Dispositions during 2022	Projected Interest from Jan 1, 2022 to December 31, 2022 on Dec 31 -21 balance adjusted for disposition during 2022 (2)	Projected Interest from January 1, 2023 to April 30, 2023 on Dec 31 -21 balance adjusted for disposition during 2022 (2)	Total Interest	Total Claim
Group 1 Accounts																			
LV Variance Account	1550	-\$872,589.65	-\$381,169.87	-\$304,865.26		-\$948,894.26	-\$8,527.42	-\$4,254.88	-\$8,599.56	-\$4,182.74	-\$567,724.39	-\$3,163.89	-\$381,169.87	-\$1,018.85	-\$5,708.02		-\$6,726.87	-\$387,896.74	
Smart Metering Entry Charge Variance Account	1551	-\$136,078.20	-\$232,696.63	-\$75,564.39		-\$293,210.44	-\$1,930.42	-\$659.86	-\$2,317.35	-\$272.93	-\$60,513.81	\$42.00	-\$232,696.63	-\$314.93	-\$3,484.63		-\$3,799.56	-\$236,496.19	
RSVA - Wholesale Market Service Charge ^a	1580	-\$6,286,670.52	\$4,316,454.22	-\$2,022,575.57		\$52,359.27	-\$39,634.50	-\$13,136.75	-\$37,808.38	-\$14,962.87	-\$4,264,094.95	-\$26,131.46	\$4,316,454.22	\$11,168.59	\$64,638.90		\$75,807.49	\$4,392,261.71	
Variance WMS - Sub-account CBR Class A ^b	1580	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00	
Variance WMS - Sub-account CBR Class B ^b	1580	-\$898,191.62	-\$893,228.11	-\$477,648.52		-\$913,771.21	-\$13,242.06	-\$2,295.26	-\$14,952.30	-\$585.02	-\$220,534.10	\$483.20	-\$893,227.11	-\$1,038.22	-\$10,381.23		-\$114,119.45	-\$704,656.56	
RSVA - Retail Transmission Network Charge	1584	-\$482,862.10	\$7,422,886.55	-\$714,195.47		\$7,654,219.92	-\$25,673.51	\$18,415.40	-\$27,988.37	\$20,730.26	\$231,333.37	\$3,633.46	\$7,422,886.55	\$17,096.89	\$111,157.73		\$128,254.53	\$7,651,141.08	
RSVA - Retail Transmission Connection Charge	1586	-\$7,933,378.81	-\$1,899,873.03	-\$4,577,938.30		-\$5,255,313.54	-\$129,914.45	-\$23,280.99	-\$150,105.53	-\$3,089.91	-\$3,355,440.51	\$1,065.07	-\$1,899,873.03	-\$4,154.98	-\$28,450.60		-\$32,605.58	-\$1,932,478.61	
RSVA - Power (excluding Global Adjustment) ^f	1588	\$1,681,120.48	\$4,237,688.59	\$743,191.93	-\$1,901,562.05	\$3,274,055.09	\$16,444.50	\$11,845.00	\$14,285.89	\$14,003.61	\$937,928.55	\$7,504.80	\$2,336,126.54	\$6,498.81	\$34,983.49		\$41,482.30	\$2,377,608.84	
RSVA - Global Adjustment ⁴	1589	\$7,537,667.81	-\$7,412,423.88	\$5,762,959.60	\$680,533.90	-\$4,957,181.77	\$292,750.91	-\$15,645.39	\$288,464.29	-\$11,358.77	\$1,774,708.21	\$14,402.46	-\$6,731,889.98	-\$25,761.23	-\$126,571.28		-\$126,571.28	-\$6,858,461.26	
Disposition and Recovery/Refund of Regulatory Balances (2018) ³	1595	-\$272,638.19	\$68.58			-\$272,569.61	-\$429,142.61	-\$1,553.59	\$0.00	-\$430,696.20	-\$272,638.19	-\$430,696.65	\$68.58	\$0.45			\$0.45	\$0.00	
Disposition and Recovery/Refund of Regulatory Balances (2019) ³	1595	\$145,938.57	\$183.22			\$146,121.79	-\$126,473.06	\$832.64	\$0.00	-\$125,640.42	\$0.00	\$0.00	\$146,121.79	-\$125,640.42	\$2,188.17		-\$123,452.25	\$22,669.54	
Disposition and Recovery/Refund of Regulatory Balances (2020) ³	1595	-\$31,509.46	-\$64,148.08			-\$95,657.54	-\$15,711.34	-\$30,485.00	\$0.00	-\$46,196.34	\$0.00	\$0.00	-\$95,657.54	-\$46,196.34	-\$1,432.47		-\$47,628.81	\$0.00	
Disposition and Recovery/Refund of Regulatory Balances (2021) ³	1595	\$0.00	\$1,272,102.00	\$7,811,626.43		-\$6,530,524.43	\$0.00	-\$330,708.34	\$201,913.83	-\$532,622.17	\$0.00	\$0.00	-\$6,530,524.43	-\$532,622.17	-\$97,929.38		-\$630,551.55	\$0.00	
Disposition and Recovery/Refund of Regulatory Balances (2022) ³	1595	\$0.00				\$0.00	\$0.00			\$0.00	\$5,796,975.82	\$432,891.01	-\$5,796,975.82	-\$432,891.01	-\$86,809.71		-\$86,809.71	\$0.00	
<i>Refer to the Filing Requirements for Account 1595 disposition eligibility.</i>																			
Group 1 total (including Account 1589)		-\$7,349,191.69	\$6,565,843.56	\$6,144,990.45	-\$1,221,028.15	-\$8,140,366.73	-\$481,053.96	-\$390,927.02	\$282,892.52	\$0.00	-\$1,134,873.50	\$0.00	-\$8,149,366.73	-\$1,134,873.50	-\$122,037.79		-\$1,256,911.29	\$4,223,691.82	
Group 1 total (excluding Account 1589)		-\$14,886,859.50	\$13,978,267.44	\$382,030.85	-\$1,901,562.05	-\$3,192,184.96	-\$773,804.87	-\$375,281.63	-\$25,571.77	\$0.00	-\$1,123,514.73	-\$1,774,708.21	-\$14,402.46	-\$1,417,476.75	-\$1,109,112.27		-\$1,130,340.01	\$11,082,153.08	
RSVA - Global Adjustment	1589	\$7,537,667.81	-\$7,412,423.88	\$5,762,959.60	\$680,533.90	-\$4,957,181.77	\$292,750.91	-\$15,645.39	\$288,464.29	\$0.00	-\$11,358.77	\$1,774,708.21	\$14,402.46	-\$6,731,889.98	-\$25,761.23		-\$126,571.28	-\$6,858,461.26	

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

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.

1) If the LDC's rate year begins on January 1, 2023, the projected interest is recorded from January 1, 2022 to December 31, 2022 on the December 31, 2021 balances, adjusted to remove balances approved for disposition in the 2022 rate decision.

2) If the LDC's rate year begins on May 1, 2023, the projected interest is recorded from January 1, 2022 to April 30, 2022 on the December 31, 2021 balances, adjusted to remove balances approved for disposition in the 2022 rate decision.

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. 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.

Refer to Filing Requirements for disposition eligibility of the sub-accounts. Select "yes" column BU if the sub-account is requested for disposition. Note that Accounts 1595 (2020), (2021) and (2022) will not be eligible for disposition in the 2023 rate application.

New accounting guidance effective January 1, 2019 for Accounts 1588 and 1589 was issued Feb. 21, 2019 titled Accounting Procedures Handbook Update - Accounting Guidance Related to Commodity Pass-Through Accounts 1588 & 1589. The amount in the "Transactions" column in this DVA Continuity Schedule are to equal the transactions in the General Ledger (excluding any amounts approved for disposition, which is shown separately in the "OEB Approved Disposition" columns). Any true-up/adjustments/reversals needed to derive the claim amount must be shown separately in the "Principal Adjustments" columns of this DVA Continuity Schedule.

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 at the December year-end, the balance must be explained.

RRR balance for Account 1580 RSVA - Wholesale Market Service Charge should equal to the control account as reported in the RRR. This would include the balance for Account 1580, Variance WMS - Sub-account CBR Class B.

Energy Board
Deferral/Variance Account Workform

Please see instructions tab for detailed instructions on how to complete the DVA Continuity Schedule. Column BV has been pre-populated from the most recent RRR filing

		2.1.7 RRR		
Account Descriptions	Account Number	Accounts To Dispose Yes/No	As of Dec 31-21	Variance RRR vs. 2021 Balance (Principal + Interest)
Group 1 Accounts				
LV Variance Account	1550		-\$953,077.00	\$0.00
Smart Metering Entity Charge Variance Account	1551		-\$293,483.37	\$0.00
RSVA - Wholesale Market Service Charge ¹	1580		\$37,396.40	\$0.00
Variance WMS – Sub-account CBR Class A ²	1580			\$0.00
Variance WMS – Sub-account CBR Class B ²	1580		-\$914,356.23	\$0.00
RSVA - Retail Transmission Network Charge	1584		\$7,674,950.18	\$0.00
RSVA - Retail Transmission Connection Charge	1586		-\$5,258,403.45	\$0.00
RSVA - Power (excluding Global Adjustment) ³	1588		\$5,223,257.18	\$1,935,198.48
RSVA - Global Adjustment ⁴	1589		-\$4,914,710.63	\$53,829.91
Disposition and Recovery/Refund of Regulatory Balances (2018) ⁵	1595	No	-\$703,265.81	\$0.00
Disposition and Recovery/Refund of Regulatory Balances (2019) ⁵	1595	Yes	\$20,481.37	\$0.00
Disposition and Recovery/Refund of Regulatory Balances (2020) ⁵	1595	No	-\$141,853.88	\$0.00
Disposition and Recovery/Refund of Regulatory Balances (2021) ⁵	1595	No	-\$7,072,146.60	\$0.00
Disposition and Recovery/Refund of Regulatory Balances (2022) ⁵	1595	No	\$0.00	\$0.00
<i>Refer to the Filing Requirements for Account 1595 disposition eligibility.</i>				
Group 1 total (including Account 1589)				
Group 1 total (excluding Account 1589)				
RSVA - Global Adjustment	1589			

Variance does not agree to RRR CBR balance in BV28. Please provide an explanation of the variance in tab 3 - Appendix A

Please provide an explanation of the variance in the tab 3 - Appendix A

Please provide an explanation of the variance in the tab 3 - Appendix A

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

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.

1) If the LDC's rate year begins on January 1, 2023, the projected interest is recorded from January 1, 2022 to December 31, 2022 on the December 31, 2021 balances, adjusted to remove balances approved for disposition in the 2022 rate decision.

2) If the LDC's rate year begins on May 1, 2023, the projected interest is recorded from January 1, 2022 to April 30, 2023 on the December 31, 2021 balances, adjusted to remove balances approved for disposition in the 2022 rate decision.

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. 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.

Refer to Filing Requirements for disposition eligibility of the sub-accounts. Select "yes" column BU if the sub-account is requested for disposition. Note that Accounts 1595 (2020), (2021) and (2022) will not be eligible for disposition in the 2023 rate application.

New accounting guidance effective January 1, 2019 for Accounts 1588 and 1589 was issued Feb. 21, 2019 titled Accounting Procedures Handbook Update - Accounting Guidance Related to Commodity Pass-Through Accounts 1588 & 1589. The amount in the "Transaction" column in this DVA Continuity Schedule are to equal the transactions in the General Ledger (excluding any amounts approved for disposition, which is shown separately in the "OEB Approved Disposition" columns). Any true-ups/adjustments/reversals needed to derive the claim amount must be shown separately in the "Principal Adjustments" columns of this DVA Continuity Schedule.

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 at the December year-end, the balance must be explained.

RRR balance for Account 1580 RSVA - Wholesale Market Service Charge should equal to the control account as reported in the RRR. This would include the balance for Account 1580, Variance WMS – Sub-account CBR Class B.



2023 Deferral/Variance Account Workform

Accounts that produced a variance on the continuity schedule are listed below.
 Please provide a detailed explanation for each variance below.

Account Descriptions	Account Number	Variance RRR vs. 2021 Balance (Principal + Interest)	Explanation
Variance WMS – Sub-account CBR Class B5	1580	\$ -	
RSVA - Power (excluding Global Adjustment) ⁴	1588	\$ 1,935,198.48	2021 True-up adjustments for amounts recorded in 2022.
RSVA - Global Adjustment 4	1589	\$ 53,829.91	2021 True-up adjustments for amounts recorded in 2022.
Deferred IFRS Transition Costs	1508	\$ 5,949,159.89	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - P & OPEB	1508	\$ (5,560,895.00)	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - Gains and Loss on disposal of Fixed Assets Variance Account ⁵	1508	\$ 336,089.47	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - Earnings Sharing Mechanism (ESM) Variance Account	1508	\$ 2,125,700.14	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - Connection Cost Recovery Agreement (CCRA) Payments Differer	1508	\$ (848,850.46)	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - Efficiency Adjustment Mechanism Deferral Account	1508	\$ 295,902.88	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - OEB Cost Assessment Variance	1508	\$ (476,395.06)	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - RCVA Retail Incremental Revenue	1508	\$ (46,785.50)	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - STR Incremental Revenue	1508	\$ (1,489.67)	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - OEB Rate Application Deferral Account	1508	\$ (1,849,592.08)	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - Performance Outcomes Account Mechansim Deferral Account	1508	\$ 107,638.07	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Other Regulatory Assets - Sub-Account - Capital Variance Account	1508	\$ (30,482.68)	RRR Balances for December 31, 2021 were not pulled into the DVA Workform Model, therefore a variance exists.
Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges ⁸	1522	\$ (12,010.65)	Variance was intentional so the Claim column would be \$0 as this account is not proposed to be disposed of in this rate application.
PILs and Tax Variance for 2006 and Subsequent Years- Sub-account CCA Changes ¹²	1592	\$ 61,458.90	Variance was intentional so the Claim column would be \$0 as this account is not proposed to be disposed of in this rate application.
LRAM Variance Account ⁴	1568	\$ (1,080,490.72)	Variance was intentional as Hydro Ottawa is only proposing to claim up to 2020 balances for LRAM.

2023 Deferral/Variance Account Workform

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 Account 1589 GA Balance Last Disposed

2020

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

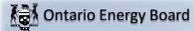
		Total	2021
Non-RPP Consumption Less WMP Consumption	A	3,756,515,539	3,756,515,539
Less Class A Consumption for Partial Year Class A Customers	B	145,574,234	145,574,234
Less Consumption for Full Year Class A Customers	C	1,343,995,221	1,343,995,221
Total Class B Consumption for Years During Balance Accumulation	D = A-B-C	2,266,946,084	2,266,946,084
All Class B Consumption for Transition Customers	E	145,694,287	145,694,287
Transition Customers' Portion of Total Consumption	F = E/D	6.43%	

Allocation of Total GA Balance \$

Total GA Balance	G	-\$ 6,858,461
Transition Customers Portion of GA Balance	H=F*G	-\$ 440,786
GA Balance to be disposed to Current Class B Customers through Rate Rider	I=G-H	-\$ 6,417,675

Allocation of GA Balances to Class A/B Transition Customers

# of Class A/B Transition Customers		52				
Customer		Total Metered Consumption (kWh) for Transition Customers During the Period When They Were Class B Customers	Metered Consumption (kWh) for Transition Customers During the Period When They Were Class B Customers in 2021	% of kWh	Customer Specific GA Allocation for the Period When They Were a Class B customer	Monthly Equal Payments
Customer 1		3,736,193	3,736,193	2.56%	-\$ 11,304	-\$ 942
Customer 2		665,810	665,810	0.46%	-\$ 2,014	-\$ 168
Customer 3		3,796,182	3,796,182	2.61%	-\$ 11,485	-\$ 957
Customer 4		2,215,639	2,215,639	1.52%	-\$ 6,703	-\$ 559
Customer 5		230,763	230,763	0.16%	-\$ 698	-\$ 58
Customer 6		41,218	41,218	0.03%	-\$ 125	-\$ 10
Customer 7		2,424,700	2,424,700	1.66%	-\$ 7,336	-\$ 611
Customer 8		485,068	485,068	0.33%	-\$ 1,468	-\$ 122
Customer 9		4,284,265	4,284,265	2.94%	-\$ 12,962	-\$ 1,080
Customer 10		1,676,395	1,676,395	1.15%	-\$ 5,072	-\$ 423
Customer 11		1,379,243	1,379,243	0.95%	-\$ 4,173	-\$ 348
Customer 12		3,558,005	3,558,005	2.44%	-\$ 10,764	-\$ 897
Customer 13		297,912	297,912	0.20%	-\$ 901	-\$ 75
Customer 14		1,944,103	1,944,103	1.33%	-\$ 5,882	-\$ 490
Customer 15		1,866,709	1,866,709	1.28%	-\$ 5,648	-\$ 471
Customer 16		2,648,103	2,648,103	1.82%	-\$ 8,012	-\$ 668
Customer 17		506,402	506,402	0.35%	-\$ 1,532	-\$ 128
Customer 18		8,098,728	8,098,728	5.56%	-\$ 24,502	-\$ 2,042
Customer 19		3,810,316	3,810,316	2.62%	-\$ 11,528	-\$ 961
Customer 20		9,396,366	9,396,366	6.45%	-\$ 28,428	-\$ 2,369
Customer 21		2,845,930	2,845,930	1.95%	-\$ 8,610	-\$ 718
Customer 22		2,353,219	2,353,219	1.62%	-\$ 7,119	-\$ 593
Customer 23		2,259,249	2,259,249	1.55%	-\$ 6,835	-\$ 570
Customer 24		194,941	194,941	0.13%	-\$ 590	-\$ 49
Customer 25		2,892,088	2,892,088	1.99%	-\$ 8,750	-\$ 729
Customer 26		1,288,419	1,288,419	0.88%	-\$ 3,898	-\$ 325
Customer 27		644,274	644,274	0.44%	-\$ 1,949	-\$ 162
Customer 28		205,332	205,332	0.14%	-\$ 621	-\$ 52
Customer 29		704,266	704,266	0.48%	-\$ 2,131	-\$ 178
Customer 30		3,504,450	3,504,450	2.41%	-\$ 10,602	-\$ 884
Customer 31		3,762,942	3,762,942	2.58%	-\$ 11,384	-\$ 949
Customer 32		13,720,680	13,720,680	9.42%	-\$ 41,511	-\$ 3,459
Customer 33		2,926,069	2,926,069	2.01%	-\$ 8,853	-\$ 738
Customer 34		2,225,705	2,225,705	1.53%	-\$ 6,734	-\$ 561
Customer 35		3,681,112	3,681,112	2.53%	-\$ 11,137	-\$ 928
Customer 36		3,673,940	3,673,940	2.52%	-\$ 11,115	-\$ 926
Customer 37		700,665	700,665	0.48%	-\$ 2,120	-\$ 177
Customer 38		3,155,314	3,155,314	2.17%	-\$ 9,546	-\$ 796
Customer 39		2,305,628	2,305,628	1.58%	-\$ 6,975	-\$ 581
Customer 40		1,676,157	1,676,157	1.15%	-\$ 5,071	-\$ 423
Customer 41		1,301,964	1,301,964	0.89%	-\$ 3,939	-\$ 328
Customer 42		2,655,761	2,655,761	1.82%	-\$ 8,035	-\$ 670
Customer 43		4,139,077	4,139,077	2.84%	-\$ 12,522	-\$ 1,044
Customer 44		12,918,590	12,918,590	8.87%	-\$ 39,084	-\$ 3,257
Customer 45		3,431,359	3,431,359	2.36%	-\$ 10,381	-\$ 865
Customer 46		425,942	425,942	0.29%	-\$ 1,289	-\$ 107
Customer 47		3,438,269	3,438,269	2.36%	-\$ 10,402	-\$ 867
Customer 48		3,430,460	3,430,460	2.35%	-\$ 10,379	-\$ 865
Customer 49		3,401,687	3,401,687	2.33%	-\$ 10,292	-\$ 858
Customer 50		211,547	211,547	0.15%	-\$ 640	-\$ 53
Customer 51		2,557,130	2,557,130	1.76%	-\$ 7,736	-\$ 645
Customer 52		1	1	0.00%	-\$ 0	-\$ 0
Total		145,694,287	145,694,287	100.00%	-\$ 440,786	



2023 Deferral/Variance Account Workform

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	2021
Total Consumption Less WMP Consumption	A	7,104,030,941	7,104,030,941
Less Class A Consumption for Partial Year Class A Customers	B	145,574,234	145,574,234
Less Consumption for Full Year Class A Customers	C	1,343,995,221	1,343,995,221
Total Class B Consumption for Years During Balance Accumulation	D = A-B-C	5,614,461,486	5,614,461,486
All Class B Consumption for Transition Customers	E	145,694,287	145,694,287
Transition Customers' Portion of Total Consumption	F = E/D		2.59%

Allocation of Total CBR Class B Balance \$

Total CBR Class B Balance	G	-\$	704,657
Transition Customers Portion of CBR Class B Balance	H=F*G	-\$	18,286
CBR Class B Balance to be disposed to Current Class B Customers through Rate Rider	I=G-H	-\$	686,371

Allocation of CBR Class B Balances to Transition Customers

# of Class A/B Transition Customers	52					
Customer	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 2021	% of kWh	Customer Specific CBR Class B Allocation for the Period When They Were a Class B Customer	Monthly Equal Payments	
Customer 1	3,736,193	3,736,193	2.56%	469	\$	39
Customer 2	665,810	665,810	0.46%	84	\$	7
Customer 3	3,796,182	3,796,182	2.61%	476	\$	40
Customer 4	2,215,639	2,215,639	1.52%	278	\$	23
Customer 5	230,763	230,763	0.16%	29	\$	2
Customer 6	41,218	41,218	0.03%	5	\$	0
Customer 7	2,424,700	2,424,700	1.66%	304	\$	25
Customer 8	485,068	485,068	0.33%	61	\$	5
Customer 9	4,384,265	4,384,265	2.94%	538	\$	45
Customer 10	1,676,395	1,676,395	1.15%	210	\$	18
Customer 11	1,379,243	1,379,243	0.95%	173	\$	14
Customer 12	3,558,005	3,558,005	2.44%	447	\$	37
Customer 13	297,912	297,912	0.20%	37	\$	3
Customer 14	1,944,103	1,944,103	1.33%	244	\$	20
Customer 15	1,866,709	1,866,709	1.28%	234	\$	20
Customer 16	2,648,103	2,648,103	1.82%	332	\$	28
Customer 17	506,402	506,402	0.35%	64	\$	5
Customer 18	8,098,728	8,098,728	5.56%	1,016	\$	85
Customer 19	3,810,316	3,810,316	2.62%	478	\$	40
Customer 20	9,396,366	9,396,366	6.45%	1,179	\$	98
Customer 21	2,845,930	2,845,930	1.95%	357	\$	30
Customer 22	2,353,219	2,353,219	1.62%	295	\$	25
Customer 23	2,259,249	2,259,249	1.55%	284	\$	24
Customer 24	194,941	194,941	0.13%	24	\$	2
Customer 25	2,892,088	2,892,088	1.99%	363	\$	30
Customer 26	1,288,419	1,288,419	0.88%	162	\$	13
Customer 27	644,274	644,274	0.44%	81	\$	7
Customer 28	205,332	205,332	0.14%	26	\$	2
Customer 29	704,266	704,266	0.48%	88	\$	7
Customer 30	3,504,450	3,504,450	2.41%	440	\$	37
Customer 31	3,762,942	3,762,942	2.58%	472	\$	39
Customer 32	13,720,680	13,720,680	9.42%	1,722	\$	144
Customer 33	2,926,069	2,926,069	2.01%	367	\$	31
Customer 34	2,225,705	2,225,705	1.53%	279	\$	23
Customer 35	3,681,112	3,681,112	2.53%	462	\$	39
Customer 36	3,673,940	3,673,940	2.52%	461	\$	38
Customer 37	700,665	700,665	0.48%	88	\$	7
Customer 38	3,155,314	3,155,314	2.17%	396	\$	33
Customer 39	2,305,628	2,305,628	1.58%	289	\$	24
Customer 40	1,676,157	1,676,157	1.15%	210	\$	18
Customer 41	1,301,964	1,301,964	0.89%	163	\$	14
Customer 42	2,655,761	2,655,761	1.82%	333	\$	28
Customer 43	4,139,077	4,139,077	2.84%	519	\$	43
Customer 44	12,918,590	12,918,590	8.87%	1,621	\$	135
Customer 45	3,431,359	3,431,359	2.36%	431	\$	36
Customer 46	425,942	425,942	0.29%	53	\$	4
Customer 47	3,438,269	3,438,269	2.36%	432	\$	36
Customer 48	3,430,460	3,430,460	2.35%	431	\$	36
Customer 49	3,401,687	3,401,687	2.33%	427	\$	36
Customer 50	211,547	211,547	0.15%	27	\$	2
Customer 51	2,557,130	2,557,130	1.76%	321	\$	27
Customer 52	1	1	0.00%	0	\$	0
Total	145,694,287	145,694,287	100.00%	18,286	\$	1,524

2023 Deferral/Variance Account Workform

No Input Required in this tab. The purpose of this tab is to calculate the billing determinants for 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 the Account 1580 CBR Class B was Last Disposed.

2020

	Total Metered Forecast Consumption Minus WMP		Forecast Total Metered Test Year kWh for Full Year Class A Customers		Forecast Total Metered Test Year kWh for Transition Customers		Metered Consumption for Current Class B Customers (Total Consumption LESS WMP, Class A and Transition Customers' Consumption)		% of total kWh
	kWh	kW	kWh	kW	kWh	kW	kWh	kW	
	RESIDENTIAL	2,454,365,237	-	0	0	0	0	2,454,365,237	
GENERAL SERVICE LESS THAN 50 KW	680,716,895	-	0	0	0	0	680,716,895	-	12%
GENERAL SERVICE 50 TO 1,499 KW	2,682,703,717	6,500,509	225,998,744	521,990	166,316,747	338,440	2,290,388,226	5,640,079	41%
GENERAL SERVICE 1,500 TO 4,999 KW	661,153,646	1,418,024	403,532,447	797,346	104,938,637	218,179	152,682,562	402,499	3%
LARGE USER	588,902,939	1,029,229	568,889,795	993,784	20,013,144	35,445	-	-	0%
UNMETERED SCATTERED LOAD	14,083,301	-	0	0	0	0	14,083,301	-	0%
STANDBY POWER GENERAL SERVICE 50 TO 1,499 KW	-	-	0	0	0	0	-	-	0%
STANDBY POWER GENERAL SERVICE 1,500 TO 4,999 KW	-	7,440	0	0	0	0	-	7,440	0%
STANDBY POWER GENERAL SERVICE LARGE USE	-	-	0	0	0	0	-	-	0%
SENTINEL LIGHTING	44,024	122	0	0	0	0	44,024	122	0%
STREET LIGHTING	22,842,919	63,940	0	0	0	0	22,842,919	63,940	0%
MICROFIT AND MICRO-NET METERING	-	-	0	0	0	0	-	-	0%
FIT	-	-	0	0	0	0	-	-	0%
HCI, RESOP, OTHER ENERGY RESOURCE	-	-	0	0	0	0	-	-	0%
-	-	-	0	0	0	0	-	-	0%
-	-	-	0	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	7,104,812,678	9,019,264	1,198,420,986	2,313,120	291,268,528	592,064	5,615,123,164	6,114,080	100%

Rate Rider Calculation for Accounts 1568 - Street Lighting Only - Remaining Balance - 2024 & 2025

Please indicate the Rate Rider Recovery Period (in months)

Rate Class (Enter Rate Classes in cells below)	Units	kWh / kWh / # of Customers	Allocated Account 1568	Rate Rider for Account 1568
STREET LIGHTING	kW	63,940	\$ 938,489	7,3388
		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-
Total			\$ 938,489	-

Claiming only for 2018 to 2020 LRAMVA Principle & Interest Balance - 2 Year Rate Rider

Rate Rider Calculation for Account 1509

Please indicate the Rate Rider Recovery Period (in months)

Rate Class (Enter Rate Classes in cells below)	Units	kWh / kWh / # of Customers	Allocated Account 1509 Balance	Rate Rider for Account 1509
RESIDENTIAL	# of Customers	324,728	\$ -	-
GENERAL SERVICE LESS THAN 50 KW	# of Customers	25,479	\$ -	-
GENERAL SERVICE 50 TO 1,499 KW	# of Customers	3,040	\$ -	-
GENERAL SERVICE 1,500 TO 4,999 KW	# of Customers	58	\$ -	-
LARGE USER	# of Customers	10	\$ -	-
UNMETERED SCATTERED LOAD	# of Customers	3,673	\$ -	-
STANDBY POWER GENERAL SERVICE 50	# of Customers	-	\$ -	-
STANDBY POWER GENERAL SERVICE 1,500	# of Customers	2	\$ -	-
STANDBY POWER GENERAL SERVICE LA	# of Customers	-	\$ -	-
SENTINEL LIGHTING	# of Customers	53	\$ -	-
STREET LIGHTING	# of Customers	63,032	\$ -	-
MICROFIT AND MICRO-NET METERING	# of Customers	-	\$ -	-
FIT	# of Customers	-	\$ -	-
HCI, RESOP, OTHER ENERGY RESOURC	# of Customers	-	\$ -	-
	# of Customers	-	\$ -	-
	# of Customers	-	\$ -	-
	# of Customers	-	\$ -	-
	# of Customers	-	\$ -	-
	# of Customers	-	\$ -	-
	# of Customers	-	\$ -	-
Total			\$ -	-

1 **INTERROGATORY RESPONSE - OEB-6**

2 **Question-6**

3 EXHIBIT REFERENCE:

4 **Exhibit 4, Tab 4, Schedule 2, Attachment 4-2-2_A_OEB Workform -**
5 **LRAMVA_Workform_20220803.xlsb**

6
7 SUBJECT AREA:

8 **LRAM Variance Account**

9 Preamble:

10
11 There are some discrepancies when comparing Tab 5 of the LRAMVA Workform to the IESO Final
12 Verified reports for persisting savings. See below for detailed clarification questions categorized by year.
13 Where necessary, please update the LRAMVA Workform accordingly.

14
15 Question(s):

16
17 **2015**

18 a) For Save on Energy Retrofit Program, please clarify the report/ tabs/ cell reference and/or
19 provide the calculations to arrive at the adjustment to 2015 savings reported in row 122 for years
20 2015 to 2020 of the LRAMVA Workform. From row 122, OEB staff was able to reconcile the savings
21 reported from 2021 to 2024.

22 **2016**

23 b) For the Save on Energy Heating and Cooling Program, please clarify the report/ tabs/ cell
24 reference and/or provide the calculations to arrive at the adjustment to 2016 savings reported in row
25 299 for years 2016 to 2019 of the LRAMVA Workform. From row 299, OEB staff can reconcile
26 savings reported from 2020 to 2025.

27 c) For the Save on Energy Retrofit Program, please clarify the report/ tabs/ cell reference and/or
28 provide the calculations to arrive at the adjustment to 2016 savings reported in row 312 for years

1 2016 to 2021 of the LRAMVA Workform. From row 312, OEB staff can reconcile savings reported
2 from 2022 to 2025.

3 **2017**

4 d) For the Save on Energy New Construction Program, please clarify the report/ tabs/ cell
5 reference and/or provide the calculations to arrive at the adjustment to 2017 savings reported in row
6 492 of the LRAMVA Workform.

7 e) For the Save on Energy Retrofit Program, please clarify the report/ tabs/ cell reference and/or
8 provide the calculations to arrive at the verified and adjustment to 2017 savings reported in rows
9 501 and 502 of the LRAMVA Workform. The values do not coincide with the IESO final verified
10 report or previous year's LRAMVA Workform. Please provide a rationale as to why there is a
11 difference.

12 f) For the Save on Energy High Performance New Construction Program, please clarify the report/
13 tabs/ cell reference and/or provide the calculations to arrive at the adjustment to 2017 savings
14 reported in row 508 of the LRAMVA Workform.

15 g) For the Swimming Pool Efficiency Program, please clarify the report/ tabs/ cell reference and/or
16 provide the calculations to arrive at the adjustment to 2017 savings reported in row 555 of the
17 LRAMVA Workform

18 **2018**

19 h) For the Save on Energy Retrofit Program, please clarify the report/ tabs/ cell reference and/or
20 provide the calculations to arrive at the verified savings reported in row 691 of the LRAMVA
21 Workform for years 2018 and 2019.

22 i) For the Save on Energy Small Business Lighting Program, please clarify the report/ tabs/ cell
23 reference and/or provide the calculations to arrive at the 2018 verified savings reported in row 694
24 of the LRAMVA Workform

1 j) For the Save on Energy Instant Discount Program, please clarify the report/ tabs/ cell
2 reference and/or provide the calculations to arrive at the 2018 verified savings reported in row 723
3 of the LRAMVA Workform

4 _____

5 **RESPONSE:**

6
7 Hydro Ottawa has updated the information provided in Tab 7. *Persistence Report* of the LRAMVA
8 Workform that will allow the OEB to reference the detailed information to better support Tab 5. *2017-*
9 *2021 LRAM*. Please refer to Attachment OEB-6(A): Rsvd OEB 2015-2027 LRAMVA Workform.

10
11 Table A - Persistence Details provides row references in Tab 7. *Persistence Report* of the OEB-6 (A)
12 Rsvd OEB 2015-2027 LRAMVA Workform that supports net energy savings reported in Tab 5. *2017-*
13 *2021 LRAM* for the initiatives and year that the OEB has requested.

1

Table A - Persistence Details

Question Reference	Year	Initiative	Results Status	Identify Status of Savings	Tab 7. Persist Report row(s)
a	2015	Save on Energy Retrofit Program	Verified	\$1,541,118	27
a	2015	Adjustment to 2015 savings	True-up	\$11,699,559	40, 48, 81, 107
b	2016	Save on Energy Heating and Cooling Program	Verified	\$4,899,966	52
b	2016	Adjustment to 2016 savings	True-up	\$54,937	59, 85
c	2016	Save on Energy Retrofit Program	Verified	\$28,358,787	54
c	2016	Adjustment to 2016 savings	True-up	\$20,717,063	62, 83, 94, 103, 108
d	2017	Save on Energy New Construction Program	Verified	\$11,429	69
d	2017	Adjustment to 2017 savings	True-up	\$6,391	89, 110
e	2017	Save on Energy Retrofit Program	Verified	\$38,655,808	72, 104
e	2017	Adjustment to 2017 savings	True-up	\$28,367,071	91, 112
f	2017	Save on Energy High Performance New Construction Program	Verified	\$249,304	74
f	2017	Adjustment to 2017 savings	True-up	\$388,232	92, 109
g	2017	Swimming Pool Efficiency Program	Verified	\$0	n/a
g	2017	Adjustment to 2017 savings	True-up	\$87,744	93, 111
h	2018	Save on Energy Retrofit Program	Verified	\$15,557,798	99, 105
h	2018	Adjustment to 2018 savings	True-up	\$20,017,721	116
i	2018	Save on Energy Small Business Lighting Program	Verified	\$676,556	100
i	2018	Adjustment to 2018 savings	True-up	\$0	n/a
j	2018	Save on Energy Instant Discount Program	Verified	\$12,536,293	96
j	2018	Adjustment to 2018 savings	True-up	\$0	n/a



Ontario Energy Board

Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 7.0 (2023)

Generic LRAMVA Work Forms

Worksheet Name	Description
1. LRAMVA Summary	Tables 1-a and 1-b provide a summary of the LRAMVA balances and carrying charges associated with the LRAMVA disposition. Table 1c provides a summary of prospective LRAM-eligible amounts related to persisting CDM savings for all years until the LDC's next rebasing application. The balances are populated from entries into other tabs throughout this work form.
1-a. Summary of Changes	Tables A-1 and A-2 include a template for LDCs to summarize changes to the LRAMVA work form.
2. LRAMVA Threshold	Tables 2-a, 2-b and 2-c include the LRAMVA thresholds and allocations by rate class.
3. Distribution Rates	Tables 3-a and 3-b include the distribution rates that are used to calculate lost revenues.
4. 2011-2014 LRAM	Tables 4-a, 4-b, 4-c and 4-d include the template 2011-2014 LRAMVA work forms.
5. 2015-2027 LRAM	Tables 5-a, 5-b, 5-c, 5-d, 5-e, 5-f, 5-g, 5-h, 5-i, 5-j, 5-k, 5-l and 5-m include the template 2015-2027 LRAMVA work forms.
6. Carrying Charges	Table 6-b includes the variance on carrying charges related to the LRAMVA disposition.
7. Persistence Report	A blank spreadsheet is provided to allow LDCs to populate with CDM savings persistence data provided by the IESO.
8. Streetlighting	A blank spreadsheet is provided to allow LDCs to populate data on streetlighting projects whose savings were not provided by the IESO in the CDM Final Results Report (i.e., streetlighting projects).

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your 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.

LRAMVA Work Form: Instructions

Version 7.0 (2023)

Tab	Instructions
LRAMVA Checklist/Schematic Tab	<p>The LRAMVA work form was created in a generic manner for use by all LDCs. Distributors should follow the checklist, which is referenced in this tab of the work form and listed below:</p> <ul style="list-style-type: none"> o Highlight changes to this work form made by the LDC, if any, and provide rationale for the change in Tab 1-a. o Include any necessary assumptions the LDC has to make in its LRAMVA work form in the "Notes" section of the work form. 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. o Include a copy of initiative-level persistence savings information that was verified by the IESO. Persistence information is available upon request from the IESO. o Apply the IESO verified savings adjustments to the year it relates to. For example, savings adjustments to 2015 programs will be provided to LDCs with the 2016 Final Results Report. The 2015 savings adjustments should be included in the 2015 verified savings portion of the work form. 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. o Provide documentation or analysis on how rate class allocations were determined by customer class and program each year, inserted in Tab 3-a.
Tab 1. LRAMVA Summary	Distributors are required to report any past approved LRAMVA amounts along with the current LRAMVA amount requested for approval. Distributors are also expected to provide prospective LRAM-eligible amounts related to persisting CDM savings for all years until their next rebasing application. There are separate tables indicating new lost revenues and carrying charges amounts by year and the totals for rate rider calculations.
Tab 1-a. Summary of Changes	Distributors should list all significant changes and changes in assumptions in the generic work form affecting the LRAMVA.
Tab 2. LRAMVA Threshold	Distributors should use the tables to display the LRAMVA threshold amounts as approved at a rate class level. This should be taken from the LDC's most recently approved cost of service application.
Tab 3. Distribution Rates	Distributors should complete the tables with rate class specific distribution rates and adjustments as applicable.
Tabs 4 and 5 (2011-to Next COS)	<p>Distributors should complete the lost revenue calculation for 2011-2014 program years and 2015-2022 program years and persisting savings until distributors next cost of service application, as applicable, by undertaking the following:</p> <ul style="list-style-type: none"> o Input or manually link the savings, adjustments and program savings persistence data from Tab 7 (Persistence Report) to Tabs 4 and 5. As noted earlier, persistence data is available upon request from the IESO. o Ensure that the IESO verified savings adjustments apply 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. o Confirm the monthly multipliers applied to demand savings. If a different monthly multiplier is used than what was confirmed in the LRAMVA Report, provide rationale in Tab 1-a and highlight the new monthly multiplier that has been used. o Input the rate class allocations by program and year to allocate actual savings to customers. If a different allocation is proposed for adjustments, LDCs must provide the supporting rationale in Tab 1-a and highlight the change. o Provide assumptions about the year(s) in which persistence is captured in the load forecast via the "Notes" section of each table and adjust what is included in the LRAMVA totals, as appropriate.
Tab 6. Carrying Charges	Distributors are requested to calculate carrying charges based on the methodology provided in the work form. This includes updating Table 6 as new prescribed interest rates for deferral and variance accounts become available and entering any collected interest amounts into the "Amounts Cleared" row to calculate outstanding variances on carrying charges. Carrying charges are not to be calculated for prospective LRAM-eligible amounts that relate to the persisting savings from CDM programs until the LDCs next cost-of-service application.
Tab 7. Persistence Report	Persistence savings report(s) provided by the IESO should be included for the relevant years in the LRAMVA work form. Tab 7 has been created consistently with the IESO's persistence report.
Tab 8. Streetlighting	A tab is provided to ensure LDCs include documentation or data to support projects whose program savings were not provided by the IESO (i.e., streetlighting projects).



LRAMVA Work Form: Checklist and Schematic

Version 6.0 (2022)

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. 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. Additionally, LDCs are also able to calculate prospective LRAM-eligible amounts, consistent with guidance provided in the 2021 CDM Guidelines. 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 and Participation and Cost Report. 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.

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

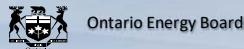
Legend

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.
Not Applicable	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

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. 2015-2027 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" and "5. 2015-2027 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" and "5. 2015-2027 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. 2015-2027 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. 2015-2027 LRAM"			
- Forecast Lost Revenues (kWh and kW) by Rate Class	Tabs "4. 2011-2014 LRAM" and "5. 2015-2027 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. 2015-2027 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

Version 7.0 (2023)

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

LDC Name | Hydro Ottawa Limited

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-2019-0261
Application of Previous LRAMVA Claim	2021 - 2025 COS/IRM Application
Period of LRAMVA Claimed in Previous Application	2013-2016
Amount of LRAMVA Claimed in Previous Application	\$ 2,733,351.00

B. Current LRAMVA Application

Current LRAMVA Application (EB#)	EB-2022-0042
Application of Current LRAMVA Claim	2023 COS/IRM Application
Period of New LRAMVA in this Application	2017-2020
Period of Rate Recovery (# years)	3

C. Documentation of Changes

Original Amount	
Amount for Final Disposition	\$ 2,048,746.75

Actual Lost Revenues (\$)	A	\$ 15,513,323
Forecast Lost Revenues (\$)	B	\$ 13,643,471
Carrying Charges (\$)	C	\$ 178,915
LRAMVA (\$) for Account 1568	A-B+C	\$ 2,048,767
Total LRAM-Eligible Amounts for Prospective Disposition	(Annual amounts to be recovered in future rate applications)	\$ -

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	\$2,695,705	\$192,301	\$2,888,006
GS<50 kW	kWh	\$1,413,348	\$76,253	\$1,489,601
GS 50 TO 1,499 KW	kW	-\$4,664,634	-\$209,589	-\$4,874,223
GS 1,500 TO 4,999	KW	\$818,413	\$41,268	\$859,681
Large User	kW	\$589,733	\$31,281	\$621,013
Unmetered Scattered Load	kWh	\$0	\$0	\$0
Streetlighting	kW	\$1,017,287	\$47,400	\$1,064,688
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
		\$0	\$0	\$0
Total		\$1,869,852	\$178,915	\$2,048,767

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 90 of Table 1-b below. LDCs should also check accuracy of the years included in the LRAMVA balance in row 92.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting								Total
		KWh	KWh	KW	KW	KW	KWh	KW	0	0	0	0	0	0	0	0
2011 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2011 Forecast	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2012 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2012 Forecast	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2013 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2013 Forecast	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2014 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2014 Forecast	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2015 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2015 Forecast	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2016 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2016 Forecast	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2017 Actuals		\$1,863,036.70	\$716,490.24	\$911,024.70	\$147,532.86	\$131,765.02	\$0.00	\$116,698.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2017 Forecast	☐	(\$431,467.40)	(\$422,832.90)	(\$1,439,033.59)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2018 Actuals		\$1,319,607.99	\$988,097.63	\$1,189,275.58	\$191,825.98	\$146,659.02	\$0.00	\$223,376.12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2018 Forecast	☐	(\$414,088.50)	(\$615,682.20)	(\$2,118,054.85)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2019 Actuals		\$624,900.95	\$1,264,300.64	\$1,473,018.21	\$237,149.93	\$158,625.87	\$0.00	\$319,731.81	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2019 Forecast	☐	(\$266,284.80)	(\$798,319.20)	(\$2,763,070.30)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2020 Actuals		\$0.00	\$1,257,168.81	\$1,480,968.49	\$241,904.09	\$152,682.65	\$0.00	\$357,480.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2020 Forecast	☐	\$0.00	(\$975,875.00)	(\$3,398,762.16)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2021 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2021 Forecast	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2022 Actuals		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2022 Forecast	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
Carrying Charges		\$192,301.21	\$76,253.11	(\$209,588.64)	\$41,267.86	\$31,280.85	\$0.00	\$47,400.29	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total LRAMVA Balance (2011-2022)		\$2,888,006.15	\$1,489,601.14	-\$4,874,222.56	\$859,680.72	\$621,013.41	\$0.00	\$1,064,687.66	\$0.00	\$2,048,766.53						

Table 1-c. LRAM-Eligible Amounts for Prospective Disposition

Table 1-c provides a summary of all prospective LRAM-eligible amounts. Consistent with guidance in the 2021 CDM Guidelines, distributors filing an application for 2023 rates should seek disposition of all outstanding LRAMVA balances related to previously established thresholds. Distributors not rebasing for 2023 rates who have complete information on eligible savings (i.e., needing only to account for persistence of savings in future years) may seek a rate adjustment on a prospective basis to address amounts that would otherwise be recorded in the LRAMVA for all years until their next rebasing application. Prospective treatment will not be necessary for cost-of-service applications.

All entries summarized below will be populated based on persisting savings from prior year CDM activities with no new savings from 2023-2027. Additionally, LRAM-eligible amounts for 2023 to 2027 are not added to the LRAMVA and do not accrue interest.

In their applications for 2023 rates, distributors should apply for approval of the 2023 to 2027 LRAM-eligible amounts shown in Table 1-C. Approval will mean that the LRAM-eligible amounts are accepted as final, subject only to the annual mechanistic adjustment to be completed in subsequent rate years.

Description	LRAMVA Previously Claimed	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting								Total
2023 Actuals (in 2022 \$)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2023 Forecast (in 2022 \$)	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2023 TOTAL LRAM-Eligible*		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2024 Actuals (in 2022 \$)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2024 Forecast (in 2022 \$)	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2024 TOTAL LRAM-Eligible*		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2025 Actuals (in 2022 \$)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2025 Forecast (in 2022 \$)	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2025 TOTAL LRAM-Eligible*		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2026 Actuals (in 2022 \$)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2026 Forecast (in 2022 \$)	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2026 TOTAL LRAM-Eligible*		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
2027 Actuals (in 2022 \$)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2027 Forecast (in 2022 \$)	☐	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2027 TOTAL LRAM-Eligible*		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Amount Cleared																
Total LRAM-Eligible Amount (in 2022 \$)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Note: LDC to make note of assumptions included above, if any
Note: All 2023-2027 LRAM-Eligible Amounts are in 2022 dollars. LDCs are to follow the instructions noted above Table 5-i in Tab 5 when seeking recovery of prospective amounts in future rate applications.

LRAMVA Work Form: Summary of Changes

Version 7.0 (2023)

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		Programs Overwritten; No. 42 - Hydro Ottawa Limited - Residential Demand Response Wi-Fi Thermostat Pilot ; No. 43 - Swimming Pool Efficiency Program; No. 49 - Street Lighting	These were specific programs for Hydro Ottawa that needed to be included
2	6. Carrying Charges	Table 6	Known quarterly prescribed interest rates were added; Hydro Ottawa assumed that 2022 Q4's interest rate would be the same as 2022 Q3's rate	2022 Q4 rate forecasted to be the same as 2022 Q3 rate, at the time of submission the 2022 Q4 rate has not been published, using the latest published rate to forecast remainder of 2022
3		Tab 8. Streetlighting	Additional Project information for years 2017 to 2020 included in columns X to BC (Table 8-b) to support values in Table 8-a.	Years 2017 to 2020 are being proposed to be disposed of in this rate application and data for each year required separately.
4		Tab 8. Streetlighting	Summary of Project Tables by year are monthly values in Column 'F'.	To avoid double counting.
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. LRAMVA Threshold	D30	Slight difference in threshold used when compared to the related Settlement agreement	Updated thresholds based on settlement agreement
2	2. LRAMVA Threshold	D45	Slight difference in threshold used when compared to the related Settlement agreement	Updated thresholds based on settlement agreement
3	2. LRAMVA Threshold	E45	Slight difference in threshold used when compared to the related Settlement agreement	Updated thresholds based on settlement agreement
4	2. LRAMVA Threshold	D60	Slight difference in threshold used when compared to the related Settlement agreement	Updated thresholds based on settlement agreement
5	2. LRAMVA Threshold	E60	Slight difference in threshold used when compared to the related Settlement agreement	Updated thresholds based on settlement agreement
6	2. LRAMVA Threshold	F30	Previously included kWh value, which is not needed	This customer class should only be kW
7	7. Persistence Data	All data	Provide expanded details	Allows OEB to reference data in tab 7 to data in tab 5
8	1. LRAMVA Summary	R77	Previous 2018 forecast principle amount was \$(3,147,846.55); changed to \$(3,147,825.55)	As a result of changes in # 1-5 noted above
9	1. LRAMVA Summary	R80	Previous 2019 forecast principle amount was \$(3,827,644.30); changed to \$(3,827,674.30)	As a result of changes in # 1-5 noted above
10	1. LRAMVA Summary	R83	Previous 2020 forecast principle amount was \$(4,374,662.16); changed to \$(4,374,637.16)	As a result of changes in # 1-5 noted above
11	1. LRAMVA Summary	R91	Previous Carrying Charges amount was \$178,914.02; changed to \$178,914.70	As a result of changes in # 1-5 noted above
12	1. LRAMVA Summary	R92	Previous Total LRAMVA Balance was \$2,048,749.85; changed to \$2,048,766.53	As a result of changes in # 1-5 noted above
etc.				

Ontario Energy Board
**LRAMVA Work Form:
 Forecast Lost Revenues**
 Version 7.0 (2023)

Legend

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

Table 2-a. LRAMVA Threshold 2017

Please provide the LRAMVA threshold approved in the cost of service (COS) or custom IR (CIR) application, which is used as the comparator against actual savings in the period of the LRAMVA claim. 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 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting										
	kWh	kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
kWh	47,201,000	28,674,000	18,627,000															
kW	332,763			332,763														
Summary		28,674,000	18,627,000	332,763	0	0	0	0	0	0	0	0	0	0	0	0		

Years Included in Threshold
 Source of Threshold 2016-2020 Settlement Agreement, p. 57 & 58

Table 2-b. LRAMVA Threshold 2018

Please provide the LRAMVA threshold approved in the cost of service (COS) or custom IR (CIR) 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 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting										
	kWh	kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
kWh	65,238,000	39,437,000	25,869,000															
kW	461,943			461,943														
Summary		39,437,000	25,869,000	461,943	0	0	0	0	0	0	0	0	0	0	0	0		

Years Included in Threshold
 Source of Threshold 2016-2020 Settlement Agreement, p. 57 & 58

Table 2-b. LRAMVA Threshold 2019

Please provide the LRAMVA threshold approved in the cost of service (COS) or custom IR (CIR) 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 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting										
	kWh	kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
kWh	81,784,000	49,312,000	32,452,000															
kW	579,503			579,503														
Summary		49,312,000	32,452,000	579,503	0	0	0	0	0	0	0	0	0	0	0	0		

Years Included in Threshold
 Source of Threshold 2016-2020 Settlement Agreement, p. 57 & 58

Table 2-b. LRAMVA Threshold 2020

Please provide the LRAMVA threshold approved in the cost of service (COS) or custom IR (CIR) 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 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting										
	kWh	kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
kWh	86,221,000	59,186,000	39,035,000															
kW	697,639			697,639														
Summary		59,186,000	39,035,000	697,639	0	0	0	0	0	0	0	0	0	0	0	0		

Years Included in Threshold
 Source of Threshold 2016-2020 Settlement Agreement, p. 57 & 58

Table 2-b. LRAMVA Threshold 2021

Please provide the LRAMVA threshold approved in the cost of service (COS) or custom IR (CIR) 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 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting										
	kWh	kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
kW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Years Included in Threshold
 Source of Threshold 2021-2025 Settlement Agreement, FINAL Attachment 3 - Load Forecast

Table 2-b. LRAMVA Threshold 2022

Please provide the LRAMVA threshold approved in the cost of service (COS) or custom IR (CIR) 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 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting										
	kWh	kWh	kWh	kW	kW	kW	kWh	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
kW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Summary		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

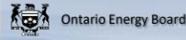
Years Included in Threshold
 Source of Threshold 2021-2025 Settlement Agreement, FINAL Attachment 3 - Load Forecast

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 1,499 kW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting										
		kWh	kWh	kW	kW	kW	kWh	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	0		
2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2014		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2015		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2016		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2017	2017	28,674,000	18,627,000	332,763	0	0	0	0	0	0	0	0	0	0	0	0		
2018	2018	39,437,000	25,869,000	461,943	0	0	0	0	0	0	0	0	0	0	0	0		
2019	2019	49,312,000	32,452,000	579,503	0	0	0	0	0	0	0	0	0	0	0	0		
2020	2020	59,186,000	39,035,000	697,639	0	0	0	0	0	0	0	0	0	0	0	0		
2021		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2022		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2023		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2024		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2025		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2026		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2027		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

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



**LRAMVA Work Form:
 Distribution Rates**

Version 7.0 (2023)

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-XXXX	EB-2010-XXXX	EB-2011-XXXX	EB-2012-XXXX	EB-2013-XXXX	EB-2014-0085	EB-2015-0084	EB-2016-0084	EB-2017-0052	EB-2018-0044	EB-2019-0046	EB-2019-0261	EB-2021-0035
Rate Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Period 1 (# months)	0	0	0	0	0	0	0	0	0	0	0	0	0
Period 2 (# months)	12	12	12	12	12	12	12	12	12	12	12	12	12
Residential													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0151	\$ 0.0105	\$ 0.0054	\$ -	\$ -
Calendar year equivalent	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0151	\$ 0.0105	\$ 0.0054	\$ -	\$ -
GS-50 KW													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0227	\$ 0.0238	\$ 0.0246	\$ 0.0250	\$ -
Calendar year equivalent	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0227	\$ 0.0238	\$ 0.0246	\$ 0.0250	\$ -
GS \$0 TO 1,499 KW													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4.3245	\$ 4.5851	\$ 4.7680	\$ 4.8760	\$ -
Calendar year equivalent	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4.3245	\$ 4.5851	\$ 4.7680	\$ 4.8760	\$ -
GS 1,500 TO 4,999													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.9181	\$ 4.1834	\$ 4.3608	\$ 4.4562	\$ -
Calendar year equivalent	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.9181	\$ 4.1834	\$ 4.3608	\$ 4.4562	\$ -
Large User													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.7199	\$ 3.9710	\$ 4.1440	\$ 4.2422	\$ -
Calendar year equivalent	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3.7199	\$ 3.9710	\$ 4.1440	\$ 4.2422	\$ -
Unmetered Scattered Load													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0226	\$ 0.0235	\$ 0.0240	\$ 0.0242	\$ -
Calendar year equivalent	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0226	\$ 0.0235	\$ 0.0240	\$ 0.0242	\$ -
Streetlighting													
Rate rider for tax sharing													
Rate rider for foregone revenue													
Other													
Adjusted rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.6501	\$ 5.9758	\$ 6.2053	\$ 6.3414	\$ -
Calendar year equivalent	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.6501	\$ 5.9758	\$ 6.2053	\$ 6.3414	\$ -
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 Table 4 and 5.

Year	Residential	GS-50 KW	GS \$0 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting
2011	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2012	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2013	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2014	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2015	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2016	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2017	\$0.0151	\$0.0227	\$4.3245	\$3.9181	\$3.7199	\$0.0226	\$5.6501
2018	\$0.0105	\$0.0238	\$4.5851	\$4.1834	\$3.9710	\$0.0235	\$5.9758
2019	\$0.0054	\$0.0246	\$4.7680	\$4.3608	\$4.1440	\$0.0240	\$6.2053
2020	\$0.0000	\$0.0250	\$4.8760	\$4.4562	\$4.2422	\$0.0242	\$6.3414
2021	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
2022	\$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: 2011 - 2014 Lost Revenues Work Form

Legend

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

Instructions

1. The following LRAMVA work forms apply to LDCs that need to recover lost revenues arising from CDM activity from the 2011-2014 period. Please input or manually link the savings, ~~with the monthly multipliers indicated in the generic template.~~
2. Please ensure that the IESO verified savings adjustments apply back to the program year it relates to. For example, savings adjustments related to 2012 programs that were reported by the ~~generic template.~~
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 generic template.~~
4. LDC are requested to input the applicable rate class allocation percentages to allocate actual savings to the rate classes. ~~The generic template.~~
5. The persistence of future savings is expected to be included in the distributor's load forecast after re-basing. LDCs are requested to delete the ~~generic template.~~

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 Demand Savings (kW)	Rate Allocations for LRAMVA															
		2011	2011	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting									Total
				kWh	kWh	kW	KW	kW	kWh	kW	0	0	0	0	0	0	0	0	0
Consumer Program																			
Actual CDM Savings in 2011		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forecast CDM Savings in 2011				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Distribution Rate in 2011				\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00
Lost Revenue in 2011 from 2011 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Forecast Lost Revenues in 2011				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LRAMVA in 2011																			\$0.00
2011 Savings Persisting in 2012				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2013				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2014				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2015				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2016				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2017				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2018				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2019				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2020				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2021				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2022				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2023				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2024				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2025				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2026				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 Savings Persisting in 2027				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: LDC to make note of key assumptions included above

Table 4-b. 2012 Lost Revenues Work Form

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Program	Results Status	Net Energy Savings (kWh)	Net Demand Savings (kW)	Rate Allocations for LRAMVA															
		2012	2012	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting								Total	
Consumer Program				kWh	kWh	kW	KW	kW	kWh	kW	0	0	0	0	0	0	0	0	
Actual CDM Savings in 2012		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2012				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2012				\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
Lost Revenue in 2012 from 2011 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue in 2012 from 2012 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Lost Revenues in 2012				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Forecast Lost Revenues in 2012				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
LRAMVA in 2012																		\$0.00	
2012 Savings Persisting in 2013				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2014				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2015				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2016				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2017				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2018				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2019				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2020				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2021				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2022				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2023				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2024				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2025				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2026				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012 Savings Persisting in 2027				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of key assumptions included above

Table 4-c. 2013 Lost Revenues Work Form

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Program	Results Status	Net Energy Savings (kWh)	Net Demand Savings (kW)	Rate Allocations for LRAMVA															
		2013	2013	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting								Total	
Consumer Program				kWh	kWh	kW	KW	kW	kWh	kW	0	0	0	0	0	0	0	0	
Actual CDM Savings in 2013		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Forecast CDM Savings in 2013				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Distribution Rate in 2013				\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
Lost Revenue in 2013 from 2011 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue in 2013 from 2012 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue in 2013 from 2013 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Lost Revenues in 2013				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Forecast Lost Revenues in 2013				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
LRAMVA in 2013																		\$0.00	
2013 Savings Persisting in 2014				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2015				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2016				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2017				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2018				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2019				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2020				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2021				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2022				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2023				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2025				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2026				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013 Savings Persisting in 2027				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Note: LDC to make note of key assumptions included above

Table 4-d. 2014 Lost Revenues Work Form

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Program	Results Status	Net Energy Savings (kWh)	Net Demand Savings (kW)	Rate Allocations for LRAMVA													Total		
		2014	2014	Residential	GS<50 kW	GS 50 TO 1,499 KW	GS 1,500 TO 4,999	Large User	Unmetered Scattered Load	Streetlighting									
Consumer Program				kWh	kWh	kW	KW	kW	kWh	kW	0	0	0	0	0	0	0		
Actual CDM Savings in 2014		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Forecast CDM Savings in 2014		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Distribution Rate in 2014				\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
Lost Revenue in 2014 from 2011 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue in 2014 from 2012 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue in 2014 from 2013 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lost Revenue in 2014 from 2014 programs				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Lost Revenues in 2014				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Forecast Lost Revenues in 2014				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LRAMVA in 2014																		\$0.00	
2014 Savings Persisting in 2015				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2016				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2017				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2018				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2019				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2020				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2021				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2022				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2023				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2024				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2025				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2026				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014 Savings Persisting in 2027				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: LDC to make note of key assumptions included above



LRAMVA Work Form:
Documentation for Streetlighting Projects

Legend | User Inputs (Green)

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).

Distributors are encouraged to provide data in the following format, and complete a separate set of following tables for each project. The tables below are meant to be an example. Distributors should complete the tables based on the actual project details. Please create the necessary links to Tab 4/5 and tabulations within this LRAMVA workform to calculate the LRAMVA amounts. Alternatively, LDCs may submit a separate attachment with the project level details for billed demand by type of bulb.

Table 8-a: Name of Municipality

Summary of Project #2017

Actual lost revenue based on kW billing				
Month	Billed amount (kW)	Gross kW reduction	Net to Gross Ratio	Net kW reduction
	a	b	c	b * c
Jan-17	180.05	85.2%	12	1,840.87
Feb-17	155.49	85.2%	11	1,457.29
Mar-17	224.21	85.2%	10	1,910.26
Apr-17	235.93	85.2%	9	1,809.11
May-17	205.63	85.2%	8	1,401.55
Jun-17	187.39	85.2%	7	1,117.57
Jul-17	193.75	85.2%	6	990.45
Aug-17	212.90	85.2%	5	906.96
Sep-17	131.01	85.2%	4	446.48
Oct-17	90.74	85.2%	3	231.93
Nov-17	69.13	85.2%	2	117.80
Dec-17	147.26	85.2%	1	125.47
Monthly - 2017				1,029.64
Persistence in 2018 (monthly)		100.00%		1,732.53
Persistence in 2019 (monthly)		99.50%		1,723.87
Persistence in 2020 (monthly)		99.50%		1,715.25
Persistence in 2021 (monthly)		99.50%		1,706.68
Total Including Persistence				7,907.98
Check				2.56

Details of Project #2017 (Month, Year)

Pre-conversion billing demand				
Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)	
	d	e	d * e	
LED Exterior Area Lights	180	1	180.054	
LED Exterior Area Lights	155	1	155.4945	
LED Exterior Area Lights	224	1	224.2085	
LED Exterior Area Lights	236	1	235.93	
LED Exterior Area Lights	206	1	205.626	
LED Exterior Area Lights	187	1	187.3855	
LED Exterior Area Lights	194	1	193.7495	
LED Exterior Area Lights	213	1	212.9025	
LED Exterior Area Lights	131	1	131.0085	
LED Exterior Area Lights	91	1	90.7385	
LED Exterior Area Lights	69	1	69.1315	
LED Exterior Area Lights	147	1	147.261	
Above Represents 14,254 lights				
Total				2,033.49

Post-conversion billing demand			
Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
	d ₁	e ₁	d ₁ * e ₁
Jan			1410
Feb			1334
Mar			1494
Apr			1746
May			1541
Jun			1129
Jul			1132
Aug			1262
Sep			1164
Oct			622
Nov			547
Dec			873
Total			0.00

Summary of Project #2018

Actual lost revenue based on kW billing				
Month	Billed amount (kW)	Gross kW reduction	Net to Gross Ratio	Net kW reduction
	a	b	c	b * c
Jan-18	109.69	85.2%	12	1,734.93
Feb-18	130.93	85.2%	11	1,227.10
Mar-18	127.33	85.2%	10	1,084.88
Apr-18	92.54	85.2%	9	709.56
May-18	89.84	85.2%	8	612.37
Jun-18	76.50	85.2%	7	456.24
Jul-18	103.64	85.2%	6	529.79
Aug-18	169.01	85.2%	5	719.97
Sep-18	151.18	85.2%	4	515.23
Oct-18	124.20	85.2%	3	317.45
Nov-18	177.06	85.2%	2	301.72
Dec-18	136.47	85.2%	1	116.27
Monthly - 2018				693.79
Persistence in 2019 (monthly)		100.00%		1,319.23
Persistence in 2020 (monthly)		99.50%		1,312.63
Persistence in 2021 (monthly)		99.50%		
Persistence in 2022 (monthly)		99.50%		
Total Including Persistence				3,325.65
Check				1

Details of Project #2018 (Month, Year)

Pre-conversion billing demand				
Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)	
	d	e	d * e	
LED Exterior Area Lights	170	1	169.692	
LED Exterior Area Lights	131	1	130.933	
LED Exterior Area Lights	127	1	127.333	
LED Exterior Area Lights	93	1	92.5355	
LED Exterior Area Lights	90	1	89.8425	
LED Exterior Area Lights	76	1	76.499	
LED Exterior Area Lights	104	1	103.636	
LED Exterior Area Lights	169	1	169.0075	
LED Exterior Area Lights	151	1	151.1815	
LED Exterior Area Lights	124	1	124.1965	
LED Exterior Area Lights	177	1	177.063	
LED Exterior Area Lights	136	1	136.469	
Above Represents 12,932 lights				
Total				1,548.39

Post-conversion billing demand			
Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
	d ₁	e ₁	d ₁ * e ₁
Jan			1064
Feb			946
Mar			1016
Apr			661
May			806
Jun			620
Jul			857
Aug			1515
Sep			1179
Oct			1145
Nov			1884
Dec			1239
Total			0.00

Summary of Project #2019

Actual lost revenue based on kW billing				
Month	Billed amount (kW)	Gross kW reduction	Net to Gross Ratio	Net kW reduction
	a	b	c	b * c
Jan-19	113.47	85.2%	12	1,160.12
Feb-19	94.27	85.2%	11	883.54
Mar-19	119.87	85.2%	10	1,021.31
Apr-19	176.76	85.2%	9	1,355.36
May-19	105.24	85.2%	8	717.34
Jun-19	100.58	85.2%	7	599.87
Jul-19	75.18	85.2%	6	384.33
Aug-19	46.83	85.2%	5	199.48
Sep-19	75.74	85.2%	4	258.10
Oct-19	61.17	85.2%	3	156.35
Nov-19	22.27	85.2%	2	37.36
Dec-19	23.81	85.2%	1	20.29
Monthly - 2019				566.17
Persistence in 2020 (monthly)		100.00%		864.95
Persistence in 2021 (monthly)		99.50%		
Persistence in 2022 (monthly)		99.50%		
Persistence in 2023 (monthly)		99.50%		
Total Including Persistence				1,431.12
Check				0

Details of Project #2019 (Month, Year)

Pre-conversion billing demand				
Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)	
	d	e	d * e	
LED Exterior Area Lights	113	1	113.4705	
LED Exterior Area Lights	94	1	94.2745	
LED Exterior Area Lights	120	1	119.8725	
LED Exterior Area Lights	177	1	176.755	
LED Exterior Area Lights	105	1	105.244	
LED Exterior Area Lights	101	1	100.582	
LED Exterior Area Lights	75	1	75.181	
LED Exterior Area Lights	47	1	46.8255	
LED Exterior Area Lights	76	1	75.735	
LED Exterior Area Lights	61	1	61.1685	
LED Exterior Area Lights	22	1	22.2745	
LED Exterior Area Lights	24	1	23.8125	
Above Represents 9,795 lights				
Total				1,015.20

Post-conversion billing demand			
Fixture type	Billing Wattage (kW)	Quantity	Billed amount (kW)
	d ₁	e ₁	d ₁ * e ₁
Jan			1196
Feb			775
Mar			1315
Apr			1864
May			967
Jun			787
Jul			631
Aug			436
Sep			810
Oct			562
Nov			236
Dec			216
Total			9,795
Total			0.00

1 **INTERROGATORY RESPONSE - OEB-7**

2 **Question-7**

3 EXHIBIT REFERENCE:

4 **Ref 1: EB-2021-0035 – Decision and Rate Order**

5 **Ref 2: Exhibit 9, Tab 1, Schedule 1, Attachment 9-1-1_A_OEB Workform - Deferral and Variance**
6 **Account_Continuity Schedule_20220803.xlsb**

7
8 SUBJECT AREA:

9 **Deferral and Variance Accounts**

10
11 Preamble:

12
13 In Reference 1, Hydro Ottawa received approval to dispose of a credit balance of \$4.2 million on a final
14 basis for Account 1580. In Reference 2, Hydro Ottawa is requesting a debit of \$4.4 million for Account
15 1580, representing principal transactions in the amount of \$4.3 million (debit) in 2021 plus carrying
16 charges of \$0.1 million.

17 Question(s):

18
19 a) Please explain why the requested balance in Account 1580 in this application has changed to a
20 debit balance of \$4.4 million (collecting from the customers) from a credit balance of \$4.2 million
21 (refunded to the customers).

22 b) Please explain at a high level of what types of the transactions captured in 2021 in Account 1580.

23 c) Please confirm that the 2021 principal transactions of \$4.3 million do not include prior-period
24 adjustments. If not confirmed, please provide the details of the prior-period adjustments.

1 **RESPONSE:**

2

3 a) Hydro Ottawa has proposed, in the 2023 Rate Application, to collect \$4.4 million¹ from customers for
4 Account 1580 - Wholesale Market Service Charge (“WMSC” or “Account 1580”). This amount
5 includes a principal balance up to December 31, 2021 and interest forecasted to December 31, 2022.
6 The \$4.4 million variance in 2021 is a result of the WMSC expense being higher than WMSC revenue.
7 In 2021, the WMSC expense rate incurred of \$4.07/MWh² was higher than the WMSC billing rate of
8 \$3.5/MWh³.

9

10 Hydro Ottawa received approval in it’s 2022 Rate Application⁴ to return \$4.2 million⁵ to customers
11 that included principal balance up to December 31, 2020 with interest forecasted to December 31,
12 2021. Hydro Ottawa returned \$4.2 million to customers for the 2020 year as Hydro Ottawa’s WMSC
13 revenue was higher than the WMSC cost. In 2020, the WMSC billing rate of \$3.5/MWh⁶ was higher
14 than the WMSC expense rate of \$3.01/MWh⁷.

15

16 Please refer to Table A below for details regarding the WMSC Revenue versus Expense in 2020 and
17 2021.

¹ Excludes Variance WMS - Sub-account CBR Class B

² Independent Electricity System Operator, *Monthly Market Report*, Weighted Average 2021 Year-to-Date costs for WMSC, excluding CBR Class B, <https://www.ieso.ca/en/Power-Data/Monthly-Market-Report>

³ Ontario Energy Boards, *Decision & Rate Order*, EB-2019-0261, (January 7, 2021) Schedule A, p.1-12, WMS and RRRP, not including CBR and RRRP

⁴ Ontario Energy Boards, *Decision & Rate Order*, EB-2021-0035, (December 16, 2021), p.12

⁵ Excludes Variance WMS - Sub-account CBR Class B

⁶ Ontario Energy Boards, *Decision & Rate Order*, EB-2019-0046, (December 17, 2019, corrected January 22, 2020) Schedule A, p.1-12, WMS and RRRP, not including CBR

⁷ Independent Electricity System Operator, *Monthly Market Report*, Weighted Average 2020 Year-to-Date costs for WMSC, excluding CBR Class B, <https://www.ieso.ca/en/Power-Data/Monthly-Market-Report>

1 **Table A - 2020 and 2021 Approved Wholesale Market Service Revenues vs. Expenses**

	2020	2021
Decision Date	December 17, 2019	January 7, 2021
Decision	EB-2019-0046	EB-2019-0261
WMSC Revenue	(\$3.50)/MWh	(\$3.50)/MWh
WMSC Expense	\$3.01/MWh	\$4.07/MWh
Difference in WMSC (Revenue - Expense)	\$(0.49)/MWh	\$0.57/MWh

- 2
- 3 b) In 2021, Hydro Ottawa captured, in Account 1580, monthly WMSC revenue using a Board-approved
- 4 WMSC billing rate as well as monthly WMSC cost charged by Hydro One and the Independent
- 5 Electricity System Operator (“IESO”). The IESO’s WMSC expense includes charges for hourly uplift,
- 6 daily uplift, monthly uplift, IESO administration, and rural/remote settlement. Carrying charges are
- 7 also recorded in this account based on the Ontario Energy Board’s prescribed accounting interest
- 8 rate. Class B capacity based recovery revenue and expense are captured in 1580 Variance WMS -
- 9 Sub account CBR Class B.
- 10
- 11 c) Hydro Ottawa confirms that the 2021 principal transactions of \$4.3 million do not include prior-period
- 12 adjustments.

1 **INTERROGATORY RESPONSE - OEB-8**

2 **Question-8**

3 EXHIBIT REFERENCE:

4 **Ref 1: Exhibit 9, Tab 9, Schedule 1, Attachment 9-1-1_A_OEB Workform - Deferral and Variance**
5 **Account_Continuity Schedule_20220803.xlsb**

7 SUBJECT AREA:

8 **Deferral and Variance Accounts**

9 Preamble:

11 In Reference 1, Account 1584 RSVA – Retail Transmission Network Charge shows a total claim debit
12 balance of \$7.6 million compared to a debit balance of \$235 thousand approved for disposition in last
13 year’s application.

14 Question(s):

- 16 a) Please explain why there is such a large balance in account 1584 RSVA – Retail Transmission Network
17 Charge sought for disposition of in the current application.
- 18 b) Please breakdown this balance into the LV revenues collected from the customers and the LV charged
19 from Hydro One in 2021.
- 20 c) Please confirm that there are no prior-period adjustments recorded in the \$7.6 million balance for
21 Account 1584. If not confirmed, please provide the details of the prior-period adjustments.

23 **RESPONSE:**

24 The Ontario Energy Board (“OEB”) confirmed that in part b) of this interrogatory, LV should be replaced
25 with Transmission Network, as such, Hydro Ottawa’s response takes this into account.

- 27 a) For fiscal year 2021, as noted in Hydro Ottawa’s 2023 application, the large variance in account
28 1584 RSVA - Retail Network Charge has occurred as a result of the rate differences in the 2021

1 Uniform Transmission Rates (“UTR”) paid by Hydro Ottawa and the Retail Transmission Service
 2 Rates (“RTSRs”) that Hydro Ottawa collects from customers.

3
 4 Hydro Ottawa uses the RTSR Workform to calculate the customer class specific RTSRs used to
 5 collect Retail Network Transmission revenue. On December 3, 2020 Hydro Ottawa submitted the
 6 final RTSR Workform for 2021 rates as part of the 2021-2025 Custom IR Application (EB-2019-
 7 0261) using the latest approved UTR Network Service Rate rate of \$4.30/kW. After which, the
 8 Ontario Energy Board (“OEB”) issued its Decision and Rate Order for 2021 Uniform Transmission
 9 Rates on December 17, 2020¹ and June 24, 2021². Both Decision and Order increased the uniform
 10 transmission rates for 2021.

11
 12 Table A details the Approved Network Service rate changes for 2021.

13
 14 **Table A - 2021 Approved Network Service Rates**

Decision Date	July 31, 2020	December 17, 2020	June 24, 2021
Decision	EB-2020-0180	EB-2020-0251	EB-2021-0176
Effective Date	January 1, 2021	January 1, 2021	July 1, 2021
Network Service Rate	\$4.30/kW	\$4.67/kW	\$4.90/kW
Cumulative Change		\$0.37/kW	\$0.60/kW

15
 16 Account 1584 RSVA – Retail Transmission Network Charge tracks Hydro Ottawa’s network
 17 service costs and the associated transmission network revenues received from customers. Hydro
 18 Ottawa’s 2021 RTSRs that were based on a UTR Network Service Rate of \$4.30/kW resulted in
 19 the Transmission Network revenues collected to be lower than the actual Transmission Network
 20 expenses incurred by Hydro Ottawa, resulting in the large variance for the 2021 year. As outlined
 21 in Exhibit 9-3-1: Disposition of Deferral and Variance Accounts, Hydro Ottawa is seeking
 22 disposition to recover this variance through a 2022 rate rider for Group 1 deferral/variance account
 23 balances (excluding global adj.).

¹ Ontario Energy Board, *2021 Uniform Transmission Rates Update*, Decision and Order EB-2020-0251 (December 17, 2020), p. 2

² Ontario Energy Board, *2021 Uniform Transmission Rates Update*, Decision and Order EB-2021-0176 (June 24, 2021), p. 2

1 In comparison, Hydro Ottawa used the UTR Network Service Rate of \$3.83/kW³ in the 2020 RTSR
2 Workform and the actual 2020 billed UTR Network Service Rate was \$3.92/kW⁴ for the year. The
3 actual billing determinants for the year were also lower than originally estimated, which
4 contributed to the smaller variance in account 1584 RSVA - Retail Network Charge.

5
6 b) Table B provides the breakdown of Transmission Network revenues collected from customers
7 and charges from Hydro One and the IESO.

8
9 **Table B - 2021 Transmission Network Revenue & Expenses**

	2021
Revenue Collected from Customers	(\$54,030,071)
IESO Network Expense	\$59,709,276
Hydro One Network Expense	\$1,743,681
RSVA - Retail Transmission Network Charge	\$7,422,887

10
11 c) Hydro Ottawa confirms there are no prior-period adjustments recorded in the \$7.6 million
12 balance for Account 1584.

³ Ontario Energy Board, *2019 Uniform Transmission Rates*, Decision and Order EB 2019-0164 (July 25, 2019), p.2

⁴ Ontario Energy Board, *2020 Uniform Transmission Rates*, Decision and Order EB-2019-0296 (December 19, 2019), p.2