

UPDATED COST ALLOCATION INTRODUCTION 1. In accordance with section 2.7 of the Chapter 2 Filing Requirements for Electricity Distribution Rate Applications, as updated on July 12, 2018 and addended on July 15, 2019 ("Filing Requirements"), this Schedule includes information on cost allocation study requirements, class revenue requirements, and revenue-to-cost ratios. 2. COST ALLOCATION STUDY Hydro Ottawa engaged Elenchus Research Associates ("Elenchus") to assist in completing a Cost Allocation Study for the Test Year 2021 using the OEB-approved model. The updated model incorporates impacts of 2019 actuals, including fixed asset, load, and demand data. Operations, Maintenance and Administration costs and weighting factors have not been updated. The completed updated model is appended to this Schedule as UPDATED Attachment 7-1-1(A): OEB Workform - 2021 Cost Allocation Model. Elenchus has also provided a report which describes the methodology and presents the original results of this model. The report is included as Attachment 7-1-1(B): Hydro Ottawa Cost Allocation Report. It has not been updated to include the impacts of 2019 actuals. In addition, Hydro Ottawa has included PDF copies of the required pages from the completed updated version of the OEB Cost Allocation Model.

21

1

2

3

4

5

6

7 8

9

10

11

12

13

14

15

16

17

18

19 20

22 3. COST ALLOCATION FACTORS

23 3.1. WEIGHTING FACTORS

While most allocation factors are based on Test Year data, the allocation factors for secondary service, meter reading, and meter capital are based on historical costs by customer class up to the end of fiscal year 2018, which at the time of Hydro Ottawa's original Application was the utility's last audited year. 2019 is Hydro Ottawa's last audited year as of the filing of this updated package of information for the Application.



For a detailed description of the methodology for development of allocation and load factors, please refer to Attachment 7-1-1(B): Hydro Ottawa Cost Allocation Report. All allocation and load factors, updated for 2019 actual results, have been incorporated into the OEB-approved Cost Allocation Model included in this Application as UPDATED Attachment 7-1-1(A): OEB Workform - 2021 Cost Allocation Model.

6

7 3.2. LOAD PROFILES

8 Hydro Ottawa was unable to obtain the hourly load profile data required to derive updated load 9 profiles for this Application. As a result, demand data figures for the 2021 Cost Allocation 10 Model have been calculated based on hourly demand figures used in previous rate 11 applications, adjusted to the 2021 monthly load profile and customer count forecasts. Please 12 refer to Attachment 7-1-1(B): Hydro Ottawa Cost Allocation Report and UPDATED Attachment 13 7-1-1(C): 2021 Demand Factors Calculation for a detailed description and example of the 14 calculation of load profile and demand data used in the Cost Allocation Model.

15

Hydro Ottawa confirms that it has a plan in place to develop updated hourly load profiles tocomply with the current Filing Requirements.

18

19 4. COST ALLOCATION ADJUSTMENTS

The Cost Allocation Model indicated that four rate classes require adjustments to bring them within the OEB- approved ranges: General Service ("GS") <50 kW and Street Lighting were above the upper limit, while Large Use and Sentinel Lighting were below the lower limit.

23

Hydro Ottawa proposes to adjust the revenue requirements to bring three of the four rate classes into the OEB-approved ranges in 2021. Hydro Ottawa first reallocated revenue requirement within the affected rates classes. The remaining revenue shortfall resulting from these adjustments was allocated to the GS 50 to 1,499 kW, GS 1,500 to 4,999 kW, and Large Use customer classes that have revenue-to-cost ratios below 100.



1 It is proposed to bring the Sentinel Lighting rate class up to the lower bound over a five-year 2 period, in order to mitigate the large bill impact of an immediate adjustment. Required 3 adjustments to Sentinel Lighting in the 2022-2025 Test Years are offset against another 4 unmetered customer class, Street Lighting. The impact on the Street Lighting class will be 5 minimal, at less than \$600 annually.

6

7 The 2021 adjustments are fully described in Attachment 7-1-1(B): Hydro Ottawa Cost 8 Allocation Report and evidenced within Sheet 11: Cost_Allocation in the following workforms:

- 9 10 • UPDATED Attachment 6-1-1(A): OEB Workform - 2021 Revenue Requirement Workform 11 • UPDATED Attachment 6-1-1(B): OEB Workform - 2022 Revenue Requirement 12 Workform 13 14 UPDATED Attachment 6-1-1(C): OEB Workform - 2023 Revenue Requirement • Workform 15 16 **UPDATED** Attachment 6-1-1(D): OEB Workform - 2024 Revenue Requirement • Workform 17 • UPDATED Attachment 6-1-1(E): OEB Workform - 2025 Revenue Requirement 18 Workform 19 20 21 The updated version of Table 1 below provides the proposed revenue-to-cost ratios for 2021.
- 22 Proposed ratios include adjustments to bring customer classes into their policy ranges.



Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 UPDATED May 5, 2020 Page 4 of 5

	% Revenue F	Requirement	Reven	ue-to-Cos	t Ratios	Poliov	
Rate Class	Last Study (2020)	This Study ¹	2020	Status Quo	Proposed	Range	
Residential	53.5%	55.1%	104.29%	103.98%	103.99%	85-115	
GS < 50 kW	10.3%	10.0%	118.23%	123.53%	119.77%	80-120	
GS > 50 to 1,499 kW	24.3%	24.9%	86.34%	85.07%	85.57%	80-120	
GS > 1,500 to 4,999 kW	6.7%	5.3%	98.24%	97.07%	97.62%	80-120	
Large Use	4.0%	4.0%	85.36%	79.48%	85.50%	85-115	
Street Lighting	0.9%	0.5%	80.00%	126.22%	120.00%	80-120	
Sentinel Lighting	0.0%	0.0%	76.00%	54.29%	59.75%	80-120	
Unmetered Scattered Load	0.3%	0.3%	118.72%	113.31%	113.25%	80-120	
Standby Power	0.0%	0.0%	21.03%	155.69%	155.69%		

1 Table 1 – AS ORIGINALLY SUBMITTED – Current and Proposed Revenue-to-Cost Ratios

2

3 Table 1 – UPDATED FOR 2019 ACTUALS – Current and Proposed Revenue-to-Cost Ratios

	% Revenue F	Requirement	Reven	ue-to-Cos	t Ratios	Poliov
Rate Class	Last Study (2020)	This Study ²	2020	Status Quo	Proposed	Range
Residential	53.5%	55.2%	104.29%	103.93%	103.95%	85-115
GS < 50 kW	10.3%	10.0%	118.23%	123.49%	119.93%	80-120
GS > 50 to 1,499 kW	24.3%	24.9%	86.34%	85.11%	85.57%	80-120
GS > 1,500 to 4,999 kW	6.7%	5.2%	98.24%	97.25%	97.77%	80-120
Large Use	4.0%	4.0%	85.36%	79.65%	85.45%	85-115
Street Lighting	0.9%	0.5%	80.00%	125.84%	119.96%	80-120
Sentinel Lighting	0.0%	0.0%	76.00%	54.14%	59.63%	80-120
Unmetered Scattered Load	0.3%	0.3%	118.72%	112.76%	111.92%	80-120
Standby Power	0.0%	0.0%	21.03%	155.34%	156.34%	

4

⁵ ¹ Totals may not sum due to rounding.

^{6 &}lt;sup>2</sup> Totals may not sum due to rounding.



Version 3.7

Ontario Energy Board

2020 Cost Allocation Model

Sheet I1 Utility Information Sheet

Name of LDC:Hydro Ottawa LimitedApplication EB Number:EB-2019-0261Date of Application:OriginalContact Information:
Name:Gregory Van DusenTitle:Director, Regulatory AffairsPhone Number:613-738-5499 ext. 7472E-Mail Address:RegulatoryAffairs@HydroOttawa.com

Copyright

This cost allocation model is protected by copyright and is being made available to you solely for the purpose of preparing or reviewing an cost allocation filing. You may use and copy this cost allocation model for that purpose, and provide a copy of this cost allocation 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 cost allocation model to a person that is advising or assisting you in preparing or reviewing a cost allocation filing, you must ensure that the person understands and agrees to the restrictions noted above.

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 2 of 14

🛃 Ontario Energy Board

2020 Cost Allocation Model

EB-2019-0261

Sheet I2 Class Selection -UPDATED 2021-2025 Custom IR - :

Instructions: Step 1: Please input identification of this Run in C15 and C17

Step 2: Please input your proposed rate classes.

Step 3: After all classes have been entered, Click the "Update" button in cell E41

Please input the date on which this Run of the model was prepared or submitted

Please provide summary identification of this Run

UPDATED 2021-2025 Custom IR - 2021 Model

		Utility's Class Definition	Current
1	Residential		YES
2	GS <50		YES
3	GS>50-Regular	GS 50 to 1,499 kW	YES
4	GS> 50-TOU	GS 1,500 to 4,999 kW	YES
5	GS >50-Intermediate		YES
6	Large Use >5MW	Large Use	YES
7	Street Light		YES
8	Sentinel		YES
9	Unmetered Scattered Load		YES
10	Embedded Distributor		YES
11	Back-up/Standby Power	Standby Power GS 50 to 1,499 kW	YES
12	Rate Class 1	Standby Power GS 1,500 to 4,999 kW	YES
13	Rate class 2	Standby Power Large Use	YES
14	Rate class 3		YES
15	Rate class 4		YES
16	Rate class 5		YES
17	Rate class 6		YES
18	Rate class 7		YES
19	Rate class 8		YES
20	Rate class 9		YES

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 3 of 14

Ontario Energy Board

2020 Cost Allocation Model

EB-2019-0261

Sheet I6.1 Revenue Worksheet - UPDATED 2021-2025 Custom IR - 2021 Model

7,063,482,000
9,454,357
- 18,791,908

Miscellaneous Revenue (RRWF 5. cell F48) 11,013,377

		1	2	3	4	5	6	7	8	9	10	11	12	13
ID	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
								•		•			•	•
CEN	7,063,482,000	2,252,937,000	699,871,000	2,817,707,000	682,919,000		574,292,000	22,107,000	47,000	13,602,000				
CDEM	9,454,357			6,815,129	1,517,165		1,052,901	61,590	132				7,440	
	2,346,299			762,547	882,208	-	701,543							
	_													
CEN EWMP	7,063,482,000	2,252,937,000	699,871,000	2,817,707,000	682,919,000	-	574,292,000	22,107,000	47,000	13,602,000	-	-	-	-
		\$27.79 \$0.0000	\$19.32 \$0.0250	\$200.00	\$4,193.93		\$15,231.32	\$0.91	\$3.17	\$5.09 \$0.0242			\$145.13	
				\$4.8760	\$4.4562		\$4.2422 \$0.45	\$6.3414	\$14.8502			<u> </u>	\$1.78	
					10.00									
	\$187,888,164	\$105,495,064	\$23,383,424	\$40,718,569	\$10,183,038	\$0	\$6,477,151	\$1,076,408	\$4,052	\$532,015	\$0	\$0	\$18,443	\$0
CREV	\$1,055,834 \$186,832,330	\$0 \$105,495,064	\$0 \$23.383.424	\$343,146 \$40,375,423	\$396,994 \$9,786,044	\$0 \$0	\$315,694 \$6,161,456	\$0 \$1.076.408	\$0	\$0 \$532,015	\$0 \$0	\$0	\$0 \$18,443	\$0 \$0
	÷.::5,002,000	÷ · · · · · · · · · · · · · · · · · · ·	\$20,000, iE i	÷ . 5,61 0, 120	÷3,100,011	ψŪ	÷1,101,100	÷.,010,100	\$1,00L	\$002,010	¢0		\$10,110	¢0
	ID CEN CDEM CEN EWMP	ID Total CEN 7,063,482,000 CDEM 9,454,357 2,346,299 2,346,299 CEN EWMP 7,063,482,000 CEN EWMP 7,063,482,000 S187,888,164 S1055,834 CREV \$186,832,330	ID Total Residential ID Total Residential CEN 7.063.482,000 2.252,937,000 CDEM 9.454,357 2.346,299 2,346,299 2.346,299 2.252,937,000 CEN EWMP 7.063,482,000 2,252,937,000 S107,888,164 \$105,495,064 \$105,495,064 \$105,834 \$0 CREV \$186,832,330 \$105,495,064	1 2 ID Total Residential GS <50 CEN 7,063,482,000 2,252,937,000 699,871,000 CDEM 9,454,357 2,346,299 2,346,299 CEN EWMP 7,063,482,000 2,252,937,000 699,871,000 Stars 2,346,299 2,346,299 2,346,299 CEN EWMP 7,063,482,000 2,252,937,000 699,871,000 Stars Stars Stars Stars CEN EWMP 7,063,482,000 2,252,937,000 699,871,000 Stars Stars Stars Stars Stars Stars Stars Stars	1 2 3 ID Total Residential GS <50 GS 50 to 1,499 kW CEN 7,063,482,000 2,252,937,000 699,871,000 2,817,707,000 CDEM 9,454,357 6,815,129 762,547 2,346,299 762,547 762,547 CEN EWMP 7,063,482,000 2,252,937,000 699,871,000 2,817,707,000 CEN EWMP 7,063,482,000 2,252,937,000 699,871,000 2,817,707,000 Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store CEN EWMP Store Store Store Store Store Store Store Store Store Store Store Store <t< td=""><td>1 2 3 4 ID Total Residential GS <50</td> GS 50 to 1,499 kW GS 1,500 to 4,999 kW CEN 7.063,482,000 2,252,937,000 699,871,000 2,817,707,000 682,919,000 CDEM 9,454,357 6,815,129 1,517,165 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 762,547 882,208 2,346,299 2,252,937,000 699,871,000 2,817,707,000 2,340,000 2,0250 3,81,933 3,933,424 520,000 3,00,000 \$0,0250 \$4,4193,93 \$0</t<>	1 2 3 4 ID Total Residential GS <50	1 2 3 4 5 ID Total Residential GS <50	1 2 3 4 5 6 ID Total Residential GS <50	1 2 3 4 5 6 7 ID Total Residential GS <50 GS 50 to 1,499 kW GS 1,500 to 4,999 kW GS >50- kW Large Use Street Light CEN 7,063,482,000 2,252,937,000 699,871,000 2,817,707,000 682,919,000 574,292,000 22,107,000 CDEM 9,454,357 6,815,129 1,517,165 1,052,901 61,590 2,346,299 762,547 882,208 - 701,543 CEN EWMP 7,063,482,000 2,252,937,000 699,871,000 2,817,707,000 682,919,000 - 574,292,000 22,107,000 CEN EWMP 7,063,482,000 2,252,937,000 699,871,000 2,817,707,000 682,919,000 - 574,292,000 22,107,000 CEN EWMP 7,063,482,000 2,252,937,000 699,871,000 2,817,707,000 682,919,000 - 574,292,000 22,107,000 CEN EWMP 7,063,482,000 2,252,937,000 699,871,000 2,817,707,000 682,919,000 - 574,292,000	1 2 3 4 5 6 7 8 ID Total Residential GS <50	1 2 3 4 5 6 7 8 9 ID Total Residential GS <50	1 2 3 4 5 6 7 8 9 10 ID Total Residential GS < 50	1 2 3 4 5 6 7 8 9 10 11 D Total Residential GS < 50 GS 50 GS 15,00 to 4,999 GS > 50- kW Large Use Street Light Sentinel Unmetered Stantby Power GS 80 to 1,499 Embedded bistributor Embedded Distributor Embedded Bistributor Embedded Bistributor	1 2 3 4 5 6 7 8 9 10 11 12 D Total Residential GS <50 GS 1500 to 1,499 GS 1500 to 4,999 GS 50- Intermediate Large Use Street Light Sentinel Unmetered Scattered Load Embedded Stattered Load Statup Power GS 50 to 1,499 Statup Power GS 1500 to 4,999 Statup Power GS 1500 to 4,999 <th< td=""></th<>

2020 Cost Allocation Model

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 4 of 14

EB-2019-0261

Sheet I6.2 Customer Data Worksheet - UPDATED 2021-2025 Custom IR - 2021 Model

			1	2	3	4	5	6	7	8	9	10	11	12	13
	ID	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
Billing Data															
Bad Debt 3 Year Historical Average	BDHA	\$1,753,222	\$1,348,520	\$158,923	\$163,934	\$81,844	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Late Payment 3 Year Historical Average	LPHA	\$1,045,323	\$819,471	\$116,497	\$96,341	\$12,457		\$516	\$42						
Number of Bills	CNB	4,140,228	3,796,152	304.692	37,440	816		132	180	660	120			36	
Number of Devices	CDEV								62,806	55	3,321				
Number of Connections (Unmetered)	CCON	7,563							4,187	55	3,321				
Total Number of Customers	CCA	345,019	316,346	25,391	3,120	68		11	15	55	10			3	
Bulk Customer Base	CCB	345,019	316,346	25,391	3,120	68		11	15	55	10			3	
Primary Customer Base	CCP	348,563	316,346	25,391	3,120	68		11	3,559	55	10			3	
Line Transformer Customer Base	CCLT	348,403	316,346	25,384	3,008	36		5	3,559	55	10				
Secondary Customer Base	CCS	307,042	286,894	18,091	1,903	65		9	15	55	10				
Weighted - Services	CWCS	350,585	286,894	36,182	19,032	650	-	264	4,187	55	3,321	-	-	-	-
Weighted Meter -Capital	CWMC	70,140,145	53,529,701	9,305,572	6,585,601	585,159	-	113,480	-	-	-	-	-	20,633	-
Weighted Meter Reading	CWMR	373,697	316,346	25,391	29,969	1,671	-	270	-	-	-	-	-	49	-
Weighted Bills	CWNB	4,235,186	3,796,152	320,297	113,481	3,242	-	521	746	475	130	-	-	141	-

Bad Debt Data

Historic Year:	2015	1,763,429	1,144,174	162,717	304,510	152,027									
Historic Year:	2016	2,149,294	1,809,123	209,194	87,362	43,615									
Historic Year:	2017	1,346,942	1,092,264	104,859	99,929	49,890									
Three-year average		1,753,222	1,348,520	158,923	163,934	81,844	-	-	-	-	-	-	-	-	•

Street Lighting Adjustment Factors

NCP Test Results

	Primary Ass	et Data	Line Transformer Asset Data					
Class	Customers/ Devices	4 NCP	Customers/ Devices	4 NCP				
Residential	316,346	2,133,287	316,346	2,133,287				
Street Light	62,806	23,998	62,806	23,998				

1 NCP

Street Lighting Adjustment Factors										
Primary	17.6488									
Line Transformer	17.6488									

2020 Cost Allocation Model

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 5 of 14

EB-2019-0261

Sheet IS Demand Data Worksheet - UPDATED 2021-2025 Custom IR - 2021 Model

This is an input sheet for demain the second s	and allocators
CP TEST RESULTS	12 CP
NCP TEST RESULTS	4 NCP
Co-incident Peak	Indicator
1 CP	CP 1
4 CP	CP 4
12 CP	CP 12
Non-co-incident Peak	Indicator
1 NCP	NCP 1
4 NCP	NCP 4
12 NCP	NCP 12

			1	2	2	4	5	6	7	9	٩	10	11	12	12
Customer Classes		Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	, Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
		CP							Check 4CP and	Check 4CP and	Check 4CP and				
k		Sanity Check	Pass	Check 4CP	Pass	Pass	Pass	Pass	12CP	12CP	12CP	Pass	Pass	Pass	Pass
CO-INCIDENT	PEAK														
1 CB															
Transformation CP	TCP1	1,277,019	498,428	117.727	464,152	110.159		84.759	-	-	1,383			412	
Bulk Delivery CP	BCP1	1,277,019	498,428	117,727	464,152	110,159		84,759	-	-	1,383			412	-
Total Sytem CP	DCP1	1,277,019	498,428	117,727	464,152	110,159		84,759	-	-	1,383			412	
4 CP	7004	4 050 007	4 047 407	400.000	4 040 000	204 020	1	204 004	5 000	0	5.045			440	
Rulk Delivery CP	BCP4	4,950,687	1,917,197	489,889	1,842,290	384,030		304,601	5,808	8	5,845			412	
Total Sytem CP	DCP4	4,950,687	1,917,197	489,889	1,842,290	384.636		304,001	5,808	8	5.845			412	
Total Often Of		.,	.,	,	.,,			001,001	-,		0,0.0			112	
12 CP															
Transformation CP	TCP12	13,367,670	4,905,357	1,316,881	5,119,659	1,090,578		884,827	31,331	53	18,342			642	
Bulk Delivery CP	BCP12	13,367,670	4,905,357	1,316,881	5,119,659	1,090,578		884,827	31,331	53	18,342			642	
Total Sytem CP	DCP12	13,367,670	4,905,357	1,316,881	5,119,659	1,090,578		884,827	31,331	53	18,342			642	
		NOD													
		Sanity Check	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
1 NCP															
Classification NCP from															
Load Data Provider	DNCP1	1,449,701	575,660	145,496	498,153	125,654		95,229	6,444	15	1,896			1,152	
Primary NCP	PNCP1	1,449,701	575,660	145,496	498,153	125,654		95,229	6,444	15	1,896			1,152	
Line Transformer NCP	LINCP1	1,263,629	575,660	145,496	433,393	55,287		44,757	6,444	15	1,896			680	
Secondary NCP	SINCPT	978,589	575,000	145,490	249,078	-		-	0,444	15	1,890			-	
4 NCP															
Classification NCP from															
Load Data Provider	DNCP4	5,555,227	2,133,287	561,644	1,967,131	486,541		374,664	23,998	58	7,492			412	
Primary NCP	PNCP4	5,555,227	2,133,287	561,644	1,967,131	486,541		374,664	23,998	58	7,492			412	
Line Transformer NCP	LTNCP4	4,828,296	2,133,287	561,644	1,711,403	214,078		176,092	23,998	58	7,492			243	
Secondary NCP	SNCP4	3,710,045	2,133,287	561,644	983,566	-		-	23,998	58	7,492			-	
12 NCP															
Classification NCP from															
Load Data Provider	DNCP12	14,941,590	5,508,979	1,531,293	5,508,529	1,295,932		1,012,783	62,128	142	21,161			642	
Primary NCP	PNCP12	14,941,590	5,508,979	1,531,293	5,508,529	1,295,932		1,012,783	62,128	142	21,161			642	
Line Transformer NCP	LTNCP12	12,962,722	5,508,979	1,531,293	4,792,421	570,210		476,008	62,128	142	21,161			379	
Secondary NCP	SNCP12	9,877,969	5,508,979	1,531,293	2,754,265	-		-	62,128	142	21,161			-	

2020 Cost Allocation Model

EB-2019-0261 Sheet OI Revenue to Cost Summary Worksheet - UPDATED 2021-2025 Custom IR - 2021 Model

Instructions: Please see the first tab in this workbook for detailed instructions

Class Revenue, Cost Analysis, and Return on Rate Base

			1	2	3	4	5	6	7	8	9	10	11	12	13
Rate Base Assets		Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
crev mi	Distribution Revenue at Existing Rates Miscellaneous Revenue (mi)	\$186,832,330 \$11,013,377 Misc	\$105,495,064 \$8,081,006 cellaneous Revenue	\$23,383,424 \$985,100 Je Input equals Ou	\$40,375,423 \$1,394,784 tput	\$9,786,044 \$272,470	\$0 \$0	\$6,161,456 \$191,721	\$1,076,408 \$51,772	\$4,052 \$881	\$532,015 \$35,208	\$0 \$0	\$0 \$0	\$18,443 \$434	\$0 \$0
	Total Revenue at Existing Rates	\$197,845,707	\$113,576,070	\$24,368,524	\$41,770,207	\$10,058,514	\$0	\$6,353,178	\$1,128,180	\$4,933	\$567,223	\$0	\$0	\$18,877	\$0
	Factor required to recover deficiency (1 + D)	1.1006													
	Distribution Revenue at Status Quo Rates	\$205,624,238	\$116,105,934	\$25,735,368	\$44,436,450	\$10,770,340	\$0	\$6,781,186	\$1,184,675	\$4,460	\$585,526	\$0	\$0	\$20,298	\$0
	Miscellaneous Revenue (mi)	\$11,013,377	\$8,081,006	\$985,100	\$1,394,784	\$272,470	\$0	\$191,721	\$51,772	\$881	\$35,208	\$0	\$0	\$434	\$0
	Total Revenue at Status Quo Rates	\$210,037,015	\$124,100,940	\$20,720,400	\$45,031,234	\$11,042,011	30	\$6,972,907	\$1,230,447	\$5,341	\$620,734	\$U	\$U	\$20,732	30
	Expenses														
di	Distribution Costs (di)	\$30,492,162	\$15,380,619	\$3,064,347	\$8,538,720	\$1,823,602	\$0	\$1,417,832	\$170,160	\$1,361	\$94,003	\$0	\$0	\$1,519	\$0
cu	Customer Related Costs (cu)	\$15,607,578	\$13,424,138	\$1,348,054	\$714,847	\$103,950	\$0	\$5,875	\$5,269	\$1,248	\$3,010	\$0	\$0	\$1,186	\$0
ad	General and Administration (ad)	\$47,280,740	\$29,029,798	\$4,549,882	\$9,831,560	\$2,051,190	\$0	\$1,525,030	\$185,435	\$2,608	\$102,474	\$0	\$0	\$2,762	\$0
INPUT	Plls (INPUT)	\$2,224,065	\$1 096 910	\$226 695	\$641.052	\$135,586	\$0	\$105 837	\$11 480	\$86	\$6 294	\$0	\$0	\$124	\$0
INT	Interest	\$24,442,421	\$12,055,016	\$2,491,377	\$7,045,146	\$1,490,083	\$0	\$1,163,143	\$126,170	\$950	\$69,171	\$0	\$0	\$1,366	\$0
	Total Expenses	\$172,379,687	\$97,908,097	\$17,131,093	\$41,049,560	\$8,584,769	\$0	\$6,522,908	\$751,262	\$8,166	\$413,014	\$0	\$0	\$10,818	\$0
	Direct Allocation	\$542,177	\$17,751	\$50,943	\$197,904	\$104,777	\$0	\$151,436	\$5,609	\$0	\$13,759	\$0	\$0	\$0	\$0
NI	Allocated Net Income (NI)	\$43,715,750	\$21,560,632	\$4,455,876	\$12,600,382	\$2,665,043	\$0	\$2,080,304	\$225,657	\$1,699	\$123,714	\$0	\$0	\$2,443	\$0
	Revenue Requirement (includes NI)	\$216,637,615	\$119,486,480	\$21,637,911	\$53,847,846	\$11,354,589	\$0	\$8,754,647	\$982,528	\$9,866	\$550,487	\$0	\$0	\$13,261	\$0
		Revenue Rec	quirement Input e	quals Output											
	Rate Base Calculation														
	Net Assets														
dp	Distribution Plant - Gross	\$1,367,897,171	\$690,724,182	\$140,017,658	\$383,193,417	\$80,230,204	\$0	\$62,443,304	\$7,181,982	\$55,611	\$3,970,671	\$0	\$0	\$80,142	\$0
gp .	General Plant - Gross	\$279,322,658	\$140,054,317	\$28,441,618	\$78,981,502	\$16,571,952	\$0	\$12,921,438	\$1,495,991	\$11,623	\$829,070	\$0	\$0	\$15,146	\$0
accum dep	Capital Contribution	(\$302,533,807) (\$198,820,308)	(\$155,715,924) (\$108,395,685)	(\$31,550,755) (\$20,131,761)	(\$82,476,855) (\$50,437,526)	(\$17,202,097) (\$10.048.336)	\$U \$0	(\$13,302,401) (\$7,780,642)	(\$1,457,240) (\$1,269,846)	(\$11,009) (\$11,175)	(\$794,990) (\$736,306)	\$U \$0	\$0 \$0	(\$22,537) (\$9,031)	\$0 \$0
	Total Net Plant	\$1,145,865,715	\$566,666,890	\$116,776,761	\$329,260,538	\$69,551,723	\$0	\$54,281,700	\$5,950,888	\$45,050	\$3,268,445	\$0	\$0	\$63,720	\$0
	Directly Allocated Net Fixed Assets	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
COP	Cost of Power (COP)	\$1 037 683 909	\$332 373 005	\$102 759 737	\$413 025 368	\$100 103 691	\$0	\$84 180 919	\$3 240 490	\$6.889	\$1 993 810	\$0	\$0	\$0	\$0.
	OM&A Expenses	\$93,380,480	\$57,834,554	\$8,962,284	\$19.085.127	\$3.978.742	\$0	\$2,948,737	\$360.864	\$5,218	\$199,487	\$0	\$0	\$5.467	\$0
	Directly Allocated Expenses	\$542,177	\$17,751	\$50,943	\$197,904	\$104,777	\$0	\$151,436	\$5,609	\$0	\$13,759	\$0	\$0	\$0	\$0
	Subtotal	\$1,131,606,566	\$390,225,310	\$111,772,963	\$432,308,400	\$104,187,210	\$0	\$87,281,092	\$3,606,963	\$12,107	\$2,207,055	\$0	\$0	\$5,467	\$0
	Working Capital	\$84,870,492	\$29,266,898	\$8,382,972	\$32,423,130	\$7,814,041	\$0	\$6,546,082	\$270,522	\$908	\$165,529	\$0	\$0	\$410	\$0
	Total Rate Base	\$1,230,736,207	\$595,933,788	\$125,159,733	\$361,683,668	\$77,365,764	\$0	\$60,827,781	\$6,221,410	\$45,958	\$3,433,975	\$0	\$0	\$64,130	\$0
		Rate B	lase Input equals	Dutput											
	Equity Component of Rate Base	\$492,294,483	\$238,373,515	\$50,063,893	\$144,673,467	\$30,946,305	\$0	\$24,331,113	\$2,488,564	\$18,383	\$1,373,590	\$0	\$0	\$25,652	\$0
	Net Income on Allocated Assets	\$43,715,750	\$26,261,092	\$9,538,433	\$4,583,770	\$2,353,265	\$0	\$298,563	\$479,576	(\$2,825)	\$193,962	\$0	\$0	\$9,914	\$0
	Net Income on Direct Allocation Assets	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Net Income	\$43,715,750	\$26,261,092	\$9,538,433	\$4,583,770	\$2,353,265	\$0	\$298,563	\$479,576	(\$2,825)	\$193,962	\$0	\$0	\$9,914	\$0
	RATIOS ANALYSIS														
	REVENUE TO EXPENSES STATUS QUO%	100.00%	103.93%	123.49%	85.11%	97.25%	0.00%	79.65%	125.84%	54.14%	112.76%	0.00%	0.00%	156.34%	0.00%
	EXISTING REVENUE MINUS ALLOCATED COSTS	(\$18,791,908) Deficie	(\$5,910,410) ency Input equals	\$2,730,613 Output	(\$12,077,639)	(\$1,296,075)	\$0	(\$2,401,470)	\$145,652	(\$4,932)	\$16,737	\$0	\$0	\$5,616	\$0
	STATUS QUO REVENUE MINUS ALLOCATED COSTS	(\$0)	\$4,700,460	\$5,082,557	(\$8,016,612)	(\$311,778)	\$0	(\$1,781,740)	\$253,919	(\$4,525)	\$70,248	\$0	\$0	\$7,471	\$0
	DETURN ON FOURTY COMPONENT OF RATE RASE	0.000/	44.000	40.05%	2.470/	7 000/	0.000/	4.000/	10.070/	45.070/	44.409/	0.00%	0.00%	00.050/	0.000

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 6 of 14

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 7 of 14

Ontario Energy Board

2020 Cost Allocation Model

EB-2019-0261

Sheet 02 Monthly Fixed Charge Min. & Max. Worksheet • UPDATED 2021-2025 Custom IR • 2021 Model

Output sheet showing minimum and maximum level for Monthly Fixed Charge

	1	2	3	4	5	6	7	8	9	10	11	12	13
<u>Summary</u>	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
Customer Unit Cost per month - Avoided Cost	\$4.23	\$6.25	\$26.46	\$67.13	0	\$13.28	\$0.07	\$1.85	\$0.05	0	0	\$84.69	0
Customer Unit Cost per month - Directly Related	\$7.68	\$10.73	\$44.75	\$117.09	0	\$70.72	\$0.18	\$3.77	\$0.13	0	0	\$124.86	0
Customer Unit Cost per month - Minimum System with PLCC Adjustment	\$16.71	\$21.15	\$78.85	\$402.12	0	\$516.80	\$8.19	\$14.67	\$8.70	0	0	\$89.34	0
Existing Approved Fixed Charge	\$27.79	\$19.32	\$200.00	\$4,193.93	\$0.00	\$15,231.32	\$0.91	\$3.17	\$5.09	\$0.00	\$0.00	\$145.13	\$0.00

			1	2	3	4	5	6	7	8	9	10	11	12	13
Information ROE and	on to be Used to Allocate PILs, ROD, A&G	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
	General Plant - Gross Assets General Plant - Accumulated Depreciation	\$279,322,658 (\$93,457,347)	\$140,054,317 (\$46,860,161)	\$28,441,618 (\$9,516,157)	\$78,981,502 (\$26,426,075)	\$16,571,952 (\$5,544,737)	\$0 \$0	\$12,921,438 (\$4,323,327)	\$1,495,991 (\$500,537)	\$11,623 (\$3,889)	\$829,070 (\$277,395)	\$0 \$0	\$0 \$0	\$15,146 (\$5,068)	\$0 \$0
	General Plant - Net Fixed Assets	\$185,865,311	\$93,194,155	\$18,925,462	\$52,555,427	\$11,027,215	\$0	\$8,598,111	\$995,454	\$7,734	\$551,675	\$0	\$0	\$10,078	\$0
	General Plant - Depreciation	\$16,520,731	\$8,283,609	\$1,682,199	\$4,671,415	\$980,160	\$0	\$764,247	\$88,481	\$687	\$49,036	\$0	\$0	\$896	\$0
	Total Net Fixed Assets Excluding General Plant	\$960,000,403	\$473,472,735	\$97,851,299	\$276,705,111	\$58,524,508	\$0	\$45,683,589	\$4,955,434	\$37,316	\$2,716,770	\$0	\$0	\$53,642	\$0
	Total Administration and General Expense	\$47,280,740	\$29,029,798	\$4,549,882	\$9,831,560	\$2,051,190	\$0	\$1,525,030	\$185,435	\$2,608	\$102,474	\$0	\$0	\$2,762	\$0
	Total O&M	\$45,490,016	\$28,423,779	\$4,354,042	\$9,131,178	\$1,902,058	\$0	\$1,404,877	\$173,109	\$2,575	\$95,729	\$0	\$0	\$2,669	\$0

<u>Scenario 1</u>

Accounts included in Avoided Costs Plus General Administration Allocation

		1	1	2	3	4	5	6	7	8	9	10	11	12	13
USoA Account #	Accounts	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
1860	Distribution Plant Meters	\$54,968,547	\$41,951,009	\$7,292,739	\$5,161,109	\$458,587	\$0	\$88,934	\$0	\$0	\$0	\$0	\$0	\$16,170	\$0
	Accumulated Amortization Accum. Amortization of Electric Utility Plant - Meters only Meter Net Fixed Assets	(\$28,716,207) \$26,252,340	(\$21,915,694) \$20,035,315	(\$3,809,811) \$3,482,927	(\$2,696,223) \$2,464,886	(\$239,571) \$219,016	\$0 \$0	(\$46,460) \$42,474	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$8,447) \$7,722	\$0 \$0
4082 4084 4090 4220 4225	Misc Revenue Retail Services Revenues Service Transaction Requests (STR) Revenues Electric Services Incidental to Energy Sales Other Electric Revenues Late Payment Charges	(\$160,963) (\$4,152) (\$278,736) \$0 (\$1,000,000)	(\$99,691) (\$2,571) (\$172,633) \$0 (\$783,940)	(\$15,449) (\$398) (\$26,752) \$0 (\$111,445)	(\$32,898) (\$848) (\$56,968) \$0 (\$92,163)	(\$6,858) (\$177) (\$11,876) \$0 (\$11,917)	\$0 \$0 \$0 \$0 \$0	(\$5,083) (\$131) (\$8,802) \$0 (\$494)	(\$622) (\$16) (\$1,077) \$0 (\$40)	(\$9) (\$0) (\$16) \$0 \$0	(\$344) (\$9) (\$595) \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	(\$9) (\$0) (\$16) \$0 \$0	\$0 \$0 \$0 \$0 \$0
	Sub-total	(\$1,443,850)	(\$1,058,836)	(\$154,044)	(\$182,878)	(\$30,829)	\$0	(\$14,510)	(\$1,755)	(\$25)	(\$948)	\$0	\$0	(\$26)	\$0
5065 5070 5075	Operation Meter Expense Customer Premises - Operation Labour Customer Premises - Materials and Expenses	\$881,674 \$270,095 \$14,371	\$672,878 \$242,391 \$12,897	\$116,973 \$19,455 \$1,035	\$82,782 \$2,391 \$127	\$7,356 \$52 \$3	\$0 \$0 \$0	\$1,426 \$8 \$0	\$0 \$3,208 \$171	\$0 \$42 \$2	\$0 \$2,545 \$135	\$0 \$0 \$0	\$0 \$0 \$0	\$259 \$2 \$0	\$0 \$0 \$0
	Sub-total	\$1,166,140	\$928,166	\$137,463	\$85,300	\$7,410	\$0	\$1,435	\$3,379	\$44	\$2,680	\$0	\$0	\$262	\$0
5175	Maintenance Maintenance of Meters	\$1,730,278	\$1,320,517	\$229,558	\$162,459	\$14,435	\$0	\$2,799	\$0	\$0	\$0	\$0	\$0	\$509	\$0
5310 5315 5320 5325 5330	Billing and Collection Meter Reading Expense Customer Billing Collecting Collecting- Cash Over and Short Collection Charges	\$444,603 \$8,846,969 \$1,879,280 \$0 \$0	\$376,370 \$7,929,862 \$1,684,468 \$0 \$0	\$30,209 \$669,076 \$142,126 \$0 \$0	\$35,656 \$237,052 \$50,355 \$0 \$0	\$1,988 \$6,773 \$1,439 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$322 \$1,088 \$231 \$0 \$0	\$0 \$1,559 \$331 \$0 \$0	\$0 \$993 \$211 \$0 \$0	\$0 \$272 \$58 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$58 \$294 \$63 \$0 \$0	\$0 \$0 \$0 \$0 \$0
	Sub-total	\$11,170,852	\$9,990,700	\$841,410	\$323,063	\$10,199	\$0	\$1,641	\$1,890	\$1,204	\$329	\$0	\$0	\$415	\$0
	Total Operation, Maintenance and Billing	\$14,067,270	\$12,239,383	\$1,208,431	\$570,822	\$32,045	\$0	\$5,875	\$5,269	\$1,248	\$3,010	\$0	\$0	\$1,186	\$0
	Amortization Expense - Meters Allocated PILs Allocated Debt Return Allocated Equity Return	\$4,800,190 \$50,868 \$559,038 \$999,850	\$3,663,419 \$38,783 \$426,222 \$762,307	\$636,847 \$6,761 \$74,307 \$132,899	\$450,700 \$4,799 \$52,741 \$94,328	\$40,047 \$427 \$4,692 \$8,392	\$0 \$0 \$0 \$0	\$7,766 \$83 \$910 \$1,628	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$1,412 \$15 \$166 \$296	\$0 \$0 \$0 \$0
	Total	\$13,033,365	\$10,071,278	\$1,905,200	\$990,51Z	\$54,774	\$0	\$1,/53	\$ 3,514	\$1,224	¢∠,061	ېن ۵	<u></u> ه ا	\$3,049	\$ U

<u>Scenario 2</u>

Accounts included in Directly Related Customer Costs Plus General Administration Allocation

		-													
			1	2	3	4	5	6	7	8	9	10	11	12	13
USoA Account #	Accounts	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
1860	Distribution Plant Meters	\$54,968,547	\$41,951,009	\$7,292,739	\$5,161,109	\$458,587	\$0	\$88,934	\$0	\$0	\$0	\$0	\$0	\$16,170	\$0
	Accumulated Amortization Accum. Amortization of Electric Utility Plant - Meters	(\$28 716 207)	(\$21.915.694)	(\$3 800 811)	(\$2,696,223)	(\$239.571)	\$0	(\$46.460)	\$0	\$0	\$0	\$0	\$0	(\$8.447)	\$0
	Mater Net Fixed Acasta	COC 050 240	¢20,025,245	¢2 492 027	(32,070,225)	\$210.016	\$0 \$0	¢40,400)	\$0 \$0	\$0 \$0	50 ¢0	\$0 \$0	\$0 \$0	(30,447) ¢7,700	\$0 \$0
	Alle ante d Conserved Direct Net Fixed Assets	\$20,202,340	\$20,030,310	\$3,40Z,9Z/	\$2,404,000 \$400,400	\$219,010	\$U \$0	φ42,474 ¢7.004	φU ¢O	30 ¢0	\$U \$0	φU ¢0	30 ©0	\$1,1ZZ	φU ¢O
	Allocated General Plant Net Fixed Assets	\$5,136,082	\$3,943,573	\$673,634	\$468,163	\$41,267	\$0	\$7,994	\$0	\$0	\$0	\$0	\$0	\$1,451	\$0
	Meter Net Fixed Assets including General Plant	\$31,388,422	\$23,978,888	\$4,156,562	\$2,933,049	\$260,283	\$0	\$50,468	\$0	\$0	\$0	\$0	\$0	\$9,173	\$0
4082	<u>Misc Revenue</u> Retail Services Revenues	(\$160,963)	(\$99,691)	(\$15,449)	(\$32,898)	(\$6,858)	\$0	(\$5,083)	(\$622)	(\$9)) (\$344)	\$0	\$0	(\$9)	\$0
4084	Service Transaction Requests (STR) Revenues	(\$4,152)	(\$2,571)	(\$398)	(\$848)	(\$177)	\$0	(\$131)	(\$16)	(\$0)) (\$9)	\$0	\$0	(\$0)	\$0
4090	Electric Services Incidental to Energy Sales	(\$278,736)	(\$172,633)	(\$26,752)	(\$56,968)	(\$11,876)	\$0	(\$8,802)	(\$1,077)	(\$16	(\$595)	\$0	\$0	(\$16)	\$0
4220	Other Electric Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4225	Late Payment Charges	(\$1,000,000)	(\$783,940)	(\$111,445)	(\$92,163)	(\$11,917)	\$0	(\$494)	(\$40)	\$0	\$0	\$0	\$0	\$0	\$0
	Sub-total	(\$1,443,850)	(\$1,058,836)	(\$154,044)	(\$182,878)	(\$30,829)	\$0	(\$14,510)	(\$1,755)	(\$25)	(\$948)	\$0	\$0	(\$26)	\$0
	Operation_														
5065	Meter Expense	\$881,674	\$672,878	\$116,973	\$82,782	\$7,356	\$0	\$1,426	\$0	\$0	\$0	\$0	\$0	\$259	\$0
5070	Customer Premises - Operation Labour	\$270,095	\$242,391	\$19,455	\$2,391	\$52	\$0	\$8	\$3,208	\$42	\$2,545	\$0	\$0	\$2	\$0
5075	Customer Premises - Materials and Expenses	\$14,371	\$12,897	\$1,035	\$127	\$3	\$0	\$0	\$171	\$2	\$135	\$0	\$0	\$0	\$0
	Sub-total	\$1,166,140	\$928,166	\$137,463	\$85,300	\$7,410	\$0	\$1,435	\$3,379	\$44	\$2,680	\$0	\$0	\$262	\$0
5175	<u>Maintenance</u> Maintenance of Meters	\$1,730,278	\$1,320,517	\$229,558	\$162,459	\$14,435	\$0	\$2,799	\$0	\$0	\$0	\$0	\$0	\$509	\$0
	Billing and Collection														
5310	Meter Reading Expense	\$444,603	\$376,370	\$30,209	\$35,656	\$1,988	\$0	\$322	\$0	\$0	\$0	\$0	\$0	\$58	\$0
5315	Customer Billing	\$8,846,969	\$7,929,862	\$669,076	\$237,052	\$6,773	\$0	\$1,088	\$1,559	\$993	\$272	\$0	\$0	\$294	\$0
5320	Collecting	\$1,879,280	\$1,684,468	\$142,126	\$50,355	\$1,439	\$0	\$231	\$331	\$211	\$58	\$0	\$0	\$63	\$0
5325	Collecting- Cash Over and Short	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5330	Collection Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sub-total	\$11,170,852	\$9,990,700	\$841,410	\$323,063	\$10,199	\$0	\$1,641	\$1,890	\$1,204	\$329	\$0	\$0	\$415	\$0
	Total Operation, Maintenance and Billing	\$14,067,270	\$12,239,383	\$1,208,431	\$570,822	\$32,045	\$0	\$5,875	\$5,269	\$1,248	\$3,010	\$0) \$0	\$1,186	\$0
	Amortization Expense - Meters	\$4,800,190	\$3,663,419	\$636,847	\$450,700	\$40,047	\$0	\$7,766	\$0	\$0	\$0	\$0	\$0	\$1,412	\$0
	General Plant assigned to Meters	\$456,523	\$350,526	\$59,876	\$41,613	\$3,668	\$0	\$711	\$0	\$0	\$0	\$0	\$0	\$129	\$0
	Admin and General	\$14,430,021	\$12,500,337	\$1,262,785	\$614,605	\$34,558	\$0	\$6,378	\$5,644	\$1.265	\$3,222	\$0	\$0	\$1.227	\$0
	Allocated PILs	\$60,820	\$46,416	\$8,069	\$5,710	\$507	\$0	\$98	\$0	\$0	\$0	\$0	\$0	\$18	\$0
	Allocated Debt Return	\$668,407	\$510,116	\$88,678	\$62,758	\$5,576	\$0	\$1,081	\$0	\$0	\$0	\$0	\$0	\$197	\$0
	Allocated Equity Return	\$1,195,459	\$912,353	\$158,603	\$112,244	\$9,973	\$0	\$1,934	\$0	\$0	\$0	\$0	\$0	\$352	\$0
	Total	\$34,234,839	\$29,163,716	\$3,269,244	\$1,675,575	\$95,546	\$0	\$9,335	\$9,158	\$2,488	\$5,283	\$0) \$0	\$4,495	\$0

Scenario 3 Minimum System Customer Costs Adjusted for PLCC - High Limit Fixed Customer Charge

		-												i uge	
			1	2	3	4	5	6	7	8	9	10	11	12	13
USoA Account #	Accounts	Total	Residential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
	Distribution Plant														
1565	Conservation and Demand Management Expenditure:														
	and Recoveries	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1830	Poles, Towers and Fixture:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Poles, Towers and Fixtures - Subtransmission Bull														
1830-3	Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1830-4	Poles, Towers and Fixtures - Primar	\$31,657,956	\$28,461,545	\$2,284,420	\$280,705	\$6,118	\$0	\$990	\$320,171	\$4,948	\$298,789	\$0	\$0	\$270	\$0
1830-5	Poles, Towers and Fixtures - Secondar	\$13,567,695	\$12,375,772	\$780,396	\$82,098	\$2,804	\$0	\$380	\$180,615	\$2,373	\$143,258	\$0	\$0	\$0	\$0
1835	Overhead Conductors and Device: Overhead Conductors and Devices - Subtransmission	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1835-3	Bulk Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1835-4	Overhead Conductors and Devices - Primar	\$45,245,385	\$40,677,090	\$3,264,881	\$401,183	\$8,744	\$0	\$1,414	\$457,587	\$7,072	\$427,028	\$0	\$0	\$386	\$0
1835-5	Overhead Conductors and Devices - Secondar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1840	Underground Conduit	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1840-3	Underground Conduit - Bulk Deliven	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1840-4	Underground Conduit - Primary	\$54,550,221	\$49,042,444	\$3,936,312	\$483,687	\$10,542	\$0	\$1,705	\$551,691	\$8,527	\$514,848	\$0	\$0	\$465	\$0
1840-5	Underground Conduit - Secondary	\$21,319,349	\$19,446,441	\$1,226,261	\$129,004	\$4,406	\$0	\$596	\$283,806	\$3,728	\$225,106	\$0	\$0	\$0	\$0
1845	Underground Conductors and Device:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1845-3	Underground Conductors and Devices - Bulk Delivery	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1845-4	Underground Conductors and Devices - Primar	\$63,757,516	\$57,320,105	\$4,600,706	\$565,326	\$12,321	\$0	\$1,993	\$644,809	\$9,966	\$601,746	\$0	\$0	\$544	\$0
1845-5	Underground Conductors and Devices - Secondary	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1850	Line Transformers	\$37,379,339	\$33,620,543	\$2,697,755	\$319,683	\$3,826	\$0	\$531	\$378,206	\$5,845	\$352,948	\$0	\$0	\$0	\$0
1855	Services	\$77,858,292	\$63,713,700	\$8,035,368	\$4,226,642	\$144,355	\$0	\$58,629	\$929,852	\$12,214	\$737,530	\$0	\$0	\$0	\$0
1860	Meters	\$54,952,377	\$41,951,009	\$7,292,739	\$5,161,109	\$458,587	\$0	\$88,934	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sub-total	\$400,288,130	\$346,608,650	\$34,118,837	\$11,649,438	\$651,703	\$0	\$155,173	\$3,746,738	\$54,673	\$3,301,254	\$0	\$0	\$1,664	\$0
	Accumulated Amortization														
	Transformers, Services and Meters	(\$143,600,366)	(\$122,255,250)	(\$12,726,061)	(\$4,863,004)	(\$212.542)	\$0	(\$77.520)	(\$1.240.706)	(\$19.151)	(\$1.006.159)	\$0	\$0	(\$9.093)	\$0
	Customor Polatod Not Eived Assots	\$256 687 764	\$223 353 400	\$21 302 776	\$6 785 444	\$338 159	\$0 \$0	\$77.652	\$2 506 032	\$36 522	\$2 205 097	30 \$0	\$0 \$0	(\$7,318)	\$0 \$0
	Allocated Coneral Plant Net Fixed Assets	\$50 424 973	\$43,062,804	\$4 137 586	\$1 288 780	\$63,716	\$0 \$0	\$14,615	\$503,415	\$7.570	\$447 773	\$0 \$0	\$0	(\$1 375)	φ0 \$0
	Customer Related NEA Including General Plant	Q00,424,010	ψ 1 0,502,054	φ4,107,000	ψ1,200,700	φ00,7 T0	ψυ	ψ1 4 ,010	φ000, 4 10	φ1,510	ф 1 1,110	ψŪ	φυ	(@1,010)	ψυ
	oustoniel Related III A melduling General Plant	\$307,112,738	\$267,316,294	\$25,530,362	\$8,074,224	\$401,875	\$0	\$92,267	\$3,009,447	\$44,092	\$2,652,870	\$0	\$0	(\$8,693)	\$0
	Misc Revenue														
4082	Retail Services Revenues	(\$160,963)	(\$99,691)	(\$15,449)	(\$32,898)	(\$6,858)	\$0	(\$5,083)	(\$622)	(\$9)	(\$344)	\$0	\$0	(\$9)	\$0
4084	Service Transaction Requests (STR) Revenue	(\$4,152)	(\$2,571)	(\$398)	(\$848)	(\$177)	\$0	(\$131)	(\$16)	(\$0)	(\$9)	\$0	\$0	(\$0)	\$0
4090	Electric Services Incidental to Energy Sale:	(\$278,736)	(\$172,633)	(\$26,752)	(\$56,968)	(\$11,876)	\$0	(\$8,802)	(\$1,077)	(\$16)	(\$595)	\$0	\$0	(\$16)	\$0
4220	Other Electric Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4225	Late Payment Charges	(\$1,000,000)	(\$783,940)	(\$111,445)	(\$92,163)	(\$11,917)	\$0	(\$494)	(\$40)	\$0	\$0	\$0	\$0	\$0	\$0
4235	Miscellaneous Service Revenue:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sub-total	(\$1,443,850)	(\$1,058,836)	(\$154,044)	(\$182,878)	(\$30,829)	\$0	(\$14,510)	(\$1,755)	(\$25)	(\$948)	\$0	\$0	(\$26)	\$0

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 11 of 14

	Operating and Maintenance														
5005	Operation Supervision and Engineering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5010	Load Dispatching	\$989.692	\$855,386	\$77.554	\$30.558	\$3,579	\$0	\$2,743	\$10.495	\$152	\$9.221	\$0	\$0	\$5	\$0
5020	Overhead Distribution Lines and Feeders - Operation														
0020	Labour	\$98.452	\$88.705	\$6,888	\$831	\$10	\$0	\$3	\$1.043	\$16	\$946	\$0	\$0	¢1	\$0
E00E	Overband Distribution Lines & Feeders Operation	\$30,40Z	φ00,700	φ0,000	φυστ	φ15	ψŪ	φυ	ψ1,0 4 0	ψīΰ	\$340	ψυ	φΰ	ψı	φυ
5025	Overlies and Everyone	000 440	C40 44C	¢4,400	¢470	¢4	¢0	64	¢047	¢0	6400	¢0	60	¢0	¢o
	Supplies and Expenses	\$20,440	\$18,416	\$1,430	\$173	54	\$0	\$1 **	\$217	\$3 *=	\$190	\$U	50	\$U	\$U
5035	Overhead Distribution Transformers- Operation	\$29,734	\$26,744	\$2,146	\$254	\$3	\$0	\$0	\$301	\$5	\$281	\$0	\$0	\$0	\$0
5040	Underground Distribution Lines and Feeders														
	Operation Labour	\$225,560	\$203,238	\$15,772	\$1,903	\$44	\$0	\$7	\$2,391	\$36	\$2,167	\$0	\$0	\$2	\$0
5045	Underground Distribution Lines & Feeders - Operatior														
	Supplies & Expenses	\$1,199,565	\$1,080,851	\$83,878	\$10,121	\$234	\$0	\$37	\$12,718	\$191	\$11,527	\$0	\$0	\$9	\$0
5055	Underground Distribution Transformers - Operatio	\$19,683	\$17,704	\$1,421	\$168	\$2	\$0	\$0	\$199	\$3	\$186	\$0	\$0	\$0	\$0
5065	Meter Expense	\$881,674	\$672,878	\$116,973	\$82,782	\$7.356	\$0	\$1.426	\$0	\$0	\$0	\$0	\$0	\$259	\$0
5070	Customer Premises - Operation Labou	\$270.095	\$242,391	\$19,455	\$2,391	\$52	\$0	\$8	\$3 208	\$42	\$2 545	\$0	\$0	\$2	\$0
5075	Customer Premises - Materials and Expense	\$14 371	\$12,807	\$1.035	\$127	\$3	\$0	\$0	\$171	\$2	\$135	\$0	\$0	\$0	\$0
5095	Miscellaneous Distribution Expense	\$3 310 023	\$2,860,305	\$260,155	\$102.507	¢12.005	¢0	\$0.200	\$35,205	¢510	\$20,021	¢0 ¢0	¢0 ¢0	¢0 ¢15	¢0 ¢0
5000	Underground Distribution Lines and Feeders - Bente	<i>40,010,020</i>	φ <u>2</u> ,005,353	φ200,133	\$102,307	φ12,000	φU	<i>4</i> 3,200	<i>4</i> 33,203	\$510	\$30,931	φυ	φU	910	φU
5090	Dideigiound Distribution Lines and Feeders - Renta	* 0	¢0.	¢0	¢0	¢0	¢0	¢0.	¢0	¢0.	¢0	¢0	¢0	¢0	¢o
5005		\$ 0	\$U	\$U	\$U	2 0	\$U	\$U	\$U	\$0	20	Ф О	\$U	\$0	\$0
5095	Overnead Distribution Lines and Feeders - Renta														
	Paid	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5096	Other Rent	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5105	Maintenance Supervision and Engineerin	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5120	Maintenance of Poles, Towers and Fixture:	\$177,135	\$159,948	\$12,004	\$1,421	\$35	\$0	\$5	\$1,961	\$29	\$1,731	\$0	\$0	\$1	\$0
5125	Maintenance of Overhead Conductors and Device	\$210,001	\$188,798	\$15,154	\$1,862	\$41	\$0	\$7	\$2,124	\$33	\$1,982	\$0	\$0	\$2	\$0
5130	Maintenance of Overhead Services	\$222,471	\$182,054	\$22,960	\$12,077	\$412	\$0	\$168	\$2,657	\$35	\$2,107	\$0	\$0	\$0	\$0
5135	Overhead Distribution Lines and Feeders - Right o														
	Way	\$1,171,351	\$1.055.387	\$81,952	\$9,892	\$229	\$0	\$36	\$12,408	\$186	\$11,252	\$0	\$0	\$8	\$0
5145	Maintenance of Underground Condui	\$133,867	\$120.844	\$9,109	\$1.081	\$26	\$0	\$4	\$1.474	\$22	\$1,206	\$0	\$0	¢0 \$1	\$0
5150	Maintenance of Onderground Ophdar	\$100,001	ψ120,044	ψ3,105	ψ1,001	φ20	ψυ	ψ 4	ψ1,474	ψΖΖ	ψ1,000	φυ	φŪ	ψı	ψυ
0100	Maintenance of Linderground Conductors and Devices	\$272.697	¢245 154	\$10.677	\$2.419	\$53	¢0	\$0	\$2.759	\$43	¢2 574	\$0	\$0	\$2	¢0.
5455	Maintenance of Underground Conductors and Devices	\$272,007	\$240,104	\$13,077	\$2,410	\$00 \$000	90 ©0	¢9	\$2,750	940 ¢00	92,074	\$U \$0	40 ©0	92 ©0	φ0 ¢0
5100	Maintenance of onderground Service:	\$104,794	\$134,030	\$17,000	\$0,940	\$300	\$U	\$124	\$1,900	320	\$1,001	\$U	\$U	3U	\$U
5160	Maintenance of Line Transformers	\$158,376	\$142,450	\$11,430	\$1,355	\$10	\$U	\$Z	\$1,602	\$25	\$1,495	\$U	\$U	\$U	\$U
5175	Maintenance of Meters	\$1,730,278	\$1,320,517	\$229,558	\$162,459	\$14,435	\$0	\$2,799	\$0	\$0	\$0	\$0	\$0	\$509	\$0
	0.1.1.1	A	00.000.044	0 4 005 550	A 400 000	000.050	00	A 40 500	000.000	01.057	000 / 10	A 0		00.17	
	Sub-total	\$11,310,149	\$9,038,014	\$1,005,559	\$433,320	\$38,8 3 3	\$U	\$10,580	\$92,900	\$1,357	\$82,143	\$U	\$U	\$817	\$U
	Billing and Collection														
5305	Supervision	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5310	Meter Reading Expense	\$444,603	\$376,370	\$30,209	\$35,656	\$1,988	\$0	\$322	\$0	\$0	\$0	\$0	\$0	\$58	\$0
5315	Customer Billing	\$8,846,969	\$7,929,862	\$669,076	\$237,052	\$6,773	\$0	\$1,088	\$1,559	\$993	\$272	\$0	\$0	\$294	\$0
5320	Collecting	\$1,879,280	\$1,684,468	\$142,126	\$50,355	\$1,439	\$0	\$231	\$331	\$211	\$58	\$0	\$0	\$63	\$0
5325	Collecting- Cash Over and Shor	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5330	Collection Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5335	Bad Debt Expense	\$1,540,308	\$1,184,754	\$139.624	\$144.025	\$71,905	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5340	Miscellaneous Customer Accounts Expense	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
						1.									
	Sub-total	\$12,711,160	\$11,175,454	\$981,033	\$467,088	\$82,104	\$0	\$1,641	\$1,890	\$1,204	\$329	\$0	\$0	\$415	\$0
	Sub Total Operating, Maintenance and Biling	\$24,021,309	\$20,814,068	\$1,986,592	\$900,414	\$120,957	\$0	\$18,221	\$94,790	\$2,561	\$82,473	\$0	\$0	\$1,232	\$0
	Amortization Expense - Customer Related	\$12,735,578	\$10,465,306	\$1,260,989	\$733,845	\$78,445	\$0	\$37,950	\$83,262	\$1,202	\$73,129	\$0	\$0	\$1,449	\$0
	Amortization Expense - General Plant assigned to														
	Meters	\$4,482,049	\$3,907,664	\$367,771	\$114,554	\$5,663	\$0	\$1,299	\$44,746	\$673	\$39,801	\$0	\$0	(\$122)	\$0
	Admin and General	\$24,647,180	\$21,257,842	\$2,075,947	\$969.478	\$130,441	\$0	\$19,779	\$101,540	\$2,594	\$88,284	\$0	\$0	\$1,275	\$0
	Allocated PII s	\$594.677	\$517.450	\$49.561	\$15,720	\$783	\$0	\$180	\$5,806	\$85	\$5,109	\$0	\$0	(\$17)	\$0
	Allocated Debt Beturn	\$6 535 487	\$5,686,766	\$544,678	\$172 763	\$8,610	\$0	\$1 977	\$63,806	\$930	\$56 144	\$0	\$0	(\$186)	\$0
	Allocated Equity Poturn	\$11 688 847	\$10 170 803	\$974 169	\$308.990	\$15 300	\$0	\$3.536	\$114 118	\$1.663	\$100,144	\$0	ŝ	(\$333)	\$0 ¢0
	Anotated Equity Return	\$11,000,0 4 7	φ10, 170,000	ψυτη, του	ψ000,000	ψ10,000	ψυ	ψ0,000	ψ11 4 ,110	ψ1,000	ψ100, 1 14	ψυ	ψυ	(0000)	4 0
	PLCC Adjustment for Line Transformer	\$863 582	\$776.804	\$62 306	\$7 383	\$88	\$0	\$12	\$8 783	\$0	\$8.205	\$0	\$0	\$0	¢∩
		\$000,00Z	\$5 705 051	\$465.779	¢7,000	¢00 ¢1.254	φ0 ¢0	¢203	\$65,736	\$0 \$0	\$61 30F	φ0 \$0	\$0	\$U \$55	φ0 ¢0
	DI CC Adjustment for Drimen, Costa				311/ 4114	31 234	20	320.3	300.730	30	301.393	20	30	300	\$U
	PLCC Adjustment for Primary Costs	\$0,447,020	¢0,730,001	¢100,770	¢01,101	¢1,201	¢0	¢0	\$20.249	¢0	609 101	60	¢0	¢0	**
	PLCC Adjustment for Primary Costs PLCC Adjustment for Secondary Costs	\$1,934,452	\$1,737,902	\$132,043	\$16,068	\$0	\$0	\$0	\$20,248	\$0	\$28,191	\$0	\$0	\$0	\$0
	PLCC Adjustment for Primary Costs PLCC Adjustment for Secondary Costs	\$0,447,625 \$1,934,452 \$74,015,419	\$1,737,902	\$132,043 \$6.445.537	\$16,068 \$2,951,982	\$0	\$0 \$0	\$0 \$68.218	\$20,248 \$411.544	\$0 \$9.683	\$28,191 \$346.613	\$0 \$0	\$0 \$0	\$0 \$3,216	\$0 \$0

Below: Grouping to avoid disclosure

Scenario 1 Accounts included in Avoided Costs Plus General Administration Allocation

Accounts		Total	R	esidential	GS <50	GS 50 to 1,499 kW	GS 1,50 k	0 to 4,999 W	GS >50- Intermediate		Large Use	Street Ligh	t	Sentinel	Unmetered Scattered Loa	d	Embedded Distributor	9 5(Standby ower GS 0 to 1,499 kW	Sta GS	tandby Power 5 1,500 to 4,999 kW	Standby Power Large Use
Distribution Plant CWMC	\$	54,968,547	\$	41,951,009	7,292,739	\$ 5,161,109	\$	458,587	\$-	\$	88,934	\$	- \$; -	\$	- \$	-	\$	-	\$	16,170	\$-
Accumulated Amortizatior Accum. Amortization of Electric Utility Plant - Meters																						
only Meter Net Fixed Assets	\$ \$	(28,716,207) 26,252,340	\$ \$	(21,915,694) \$ 20,035,315 \$	(3,809,811) 3,482,927	\$ (2,696,223 \$ 2,464,886	s) \$; \$	(239,571) 219,016	\$- \$-	\$ \$	(46,460) 42,474	\$ \$	- \$ - \$	-	\$ \$	- \$ - \$	-	\$ \$	-	\$ \$	(8,447) 7,722	\$- \$-
<u>Misc Revenue</u> CWNB	\$	(443,850)	\$	(274,896) \$	(42,599)	\$ (90,714) \$	(18,912)	\$ -	\$	(14,016)	\$ (1,	'15) \$	(25)	\$ (94	18) \$	-	\$	-	\$	(26)	\$-
NFA LPHA Sub-total	\$ \$ \$	- (1,000,000) (1,443,850)	\$ \$ \$	- \$ (783,940) \$ (1.058,836) \$	- (111,445) (154,044)	\$ (92,163 \$ (182,878	\$ () \$	- (11,917) (30,829)	\$- \$-	\$ \$	(494)	\$ \$ \$ (1)	- \$ (40) \$ (55) \$	(25)	\$ \$ \$ (94	- \$ - \$	-	\$ \$		\$ \$	(26)	\$- \$-
Operation_	Ŷ	(1,440,000)	Ŷ	(1,000,000) ¢	(104,044)	¢ (102,010	,, ¢	(00,020)	~	Ψ	(14,010)	φ (1,	00) Q	(20)	U (0-	ιο) φ		Ŷ		Ψ	(20)	•
CWMC CCA	\$ \$	881,674 284,466	\$ \$	672,878 \$ 255,288 \$	116,973 20,490	\$ 82,782 \$ 2,518 \$ 85,200	\$	7,356	5 - 5 -	\$ \$	1,426 9	\$ 3,3	- \$ 79 \$	44	\$ 2,68	- \$ 30 \$		\$ \$:	\$ \$	259 2	\$- \$-
Maintenance	Ŷ	1,100,140	Ŷ	520,100 ¢	101,400	φ 00,000	Ų.	7,410	~ -	Ψ	1,400	φ 0,	//J		ψ 2,00	φ 0,		Ŷ		Ψ	202	•
1860 Billing and Collection	\$	1,730,278	\$	1,320,517 \$	229,558	\$ 162,459	\$	14,435	\$ -	\$	2,799	\$	- \$	-	\$	- \$	-	\$	-	\$	509	\$-
CWMR CWNB	\$ \$	444,603 10,726,249	\$ \$	376,370 \$ 9,614,330 \$	30,209 811,201	\$ 35,656 \$ 287,407	\$ \$	1,988 8,211	\$- \$-	\$ \$	322 1,319	\$ \$ 1,8	- \$ 190 \$	- 1,204	\$ \$ 32	- \$ 29 \$	-	\$ \$	-	\$ \$	58 357	\$- \$-
Sub-total	\$	11,170,852	\$	9,990,700 \$	841,410	\$ 323,063	\$	10,199	\$ -	\$	1,641	\$ 1,8	90 \$	1,204	\$ 32	29 \$	-	\$	-	\$	415	\$ -
Amortization Expense - Meters	\$ \$	4,800,190	\$ \$	3,663,419 \$	636,847	\$ 450,700	. s . s	40,047	s -	\$ \$	7,766	\$ 5,2	- \$	- 1,240	\$ 3,01	- \$		ې ډ		\$	1,100	s -
Allocated PILs Allocated Debt Return	\$ \$	50,868 559,038	\$ \$	38,783 \$ 426,222 \$	6,761 74,307	\$ 4,799 \$ 52,74	\$	427 4,692	\$- \$-	\$ \$	83 910	\$ \$	- \$	-	\$ \$	- \$	-	\$ \$	-	\$ \$	15 166	\$- \$-
Total	۵ ۶	999,850	\$	16,071,278 \$	1,905,200	94,328990,511	• •	54,774	• - \$ -	э \$	1,028	ې \$ 3,5	- \$ i14 \$	1,224	\$ 2,06	- \$ 51 \$		ې \$	-	ъ \$	296 3,049	。 - \$ -

<u>Scenario 2</u>

Accounts included in Directly Related Customer Costs Plus General Administration Allocation

Accounts		Total	Re	esidential	GS <50	GS 50 to 1,499 kW	GS 1,500 to kW	o 4,999	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
Distribution Plant CWMC	\$	54,968,547	\$	41,951,009 \$	7,292,739	\$ 5,161,109	\$ 4	58,587 \$; -	\$ 88,934	\$-	\$-	\$ -	\$-	\$-	\$ 16,170	\$-
Accumulated Amortization Accum. Amortization of Electric Utility Plant - Meters only	\$	(28,716,207)	\$	(21,915,694) \$	(3,809,811)	\$ (2,696,223)\$ (2	39,571) \$	š -	\$ (46,460)	\$-	\$-	\$-	\$-	\$-	\$ (8,447	\$-
Meter Net Fixed Assets Allocated General Plant Net Fixed Assets	\$ \$	26,252,340 5,136,082	\$ \$	20,035,315 \$ 3,943,573 \$	3,482,927 673,634	\$ 2,464,886 \$ 468,163	\$2 \$	19,016 41,267	5 - 5 -	\$ 42,474 \$ 7,994	\$- \$-	\$ - \$ -	\$- \$-	\$- \$-	\$ - \$ -	\$ 7,722 \$ 1,451	\$- \$-
Meter Net Fixed Assets Including General Plant	\$	31,388,422	\$	23,978,888 \$	4,156,562	\$ 2,933,049	\$ 2	60,283 \$	- 6	\$ 50,468	\$ -	\$-	\$-	\$-	\$-	\$ 9,173	\$-
<u>Misc Revenue</u> CWNB NFA LPHA Sub-total	\$ \$ \$	(443,850) (1,000,000) (1,443,850)	\$ \$ \$	(274,896) \$ - \$ (783,940) \$ (1,058,836) \$	(42,599) (111,445) (154,044)	\$ (90,714 \$)\$ (\$)\$ (}\$ (18,912) \$ - \$ 11,917) \$ 30,829) \$	6 - - 6 - 6 -	\$ (14,016) \$ - \$ (494) \$ (14,510)	\$ (1,715) \$ - \$ (40) \$ (1,755)	\$ (25) \$ - \$ - \$ (25)) \$ (948 \$ - \$ - \$ (948)\$- \$- \$-)\$-	- \$ - - \$ - - \$ -	\$ (26) \$ - \$ - \$ (26)	\$- \$- \$- \$-
Operation CWMC CCA Sub-total	\$ \$	881,674 284,466 1,166,140	\$ \$	672,878 \$ 255,288 \$ 928,166 \$	116,973 20,490 137,463	\$ 82,782 \$ 2,518 \$ 85,300	\$ \$	7,356 55 7,410	5 - 5 -	\$ 1,426 \$ 9 \$ 1,435	\$ - \$ 3,379 \$ 3,379	\$ - \$ 44 \$ 44	\$ - \$ 2,680 \$ 2,680	\$- \$- \$-	\$ - \$ - \$ -	\$ 259 \$ 2 \$ 262	\$- \$- \$-
<u>Maintenance</u> 1860	\$	1,730,278	\$	1,320,517 \$	229,558	\$ 162,459	\$	14,435 \$	ş -	\$ 2,799	\$-	\$-	\$ -	\$ -	\$-	\$ 509	\$-
Billing and Collection CWMR CWNB Sub-total Total Operation Maintenance and Billing	\$ \$ \$ \$	444,603 10,726,249 11,170,852 14,067,270	\$ \$ \$	376,370 \$ 9,614,330 \$ 9,990,700 \$ 12,239,383 \$	30,209 811,201 <i>841,410</i> 1 208 431	\$ 35,656 \$ 287,407 \$ 323,063 \$ 570,822	\$ \$ \$	1,988 8,211 10,199 32,045	- - -	\$ 322 \$ 1,319 \$ 1,641 \$ 5,875	\$ - \$ 1,890 \$ 1,890 \$ 5,269	\$ - \$ 1,204 \$ 1,204 \$ 1,204	\$ - \$ 329 \$ 329 \$ 3010	\$- \$- \$-	\$ - \$ - \$ -	\$ 58 \$ 357 \$ 415 \$ 1 186	\$- \$- \$-
Amortization Expense - Meters Amortization Expense -	\$	4,800,190	\$	3,663,419 \$	636,847	\$ 450,700	\$	40,047 \$; ; -	\$ 7,766	\$ -	\$ -	\$ -	\$-	\$ -	\$ 1,412	\$ -
General Plant assigned to Meters Admin and General Allocated PILs Allocated Debt Return	\$ \$ \$ \$	456,523 14,430,021 60,820 668,407	\$ \$ \$ \$	350,526 \$ 12,500,337 \$ 46,416 \$ 510,116 \$	59,876 1,262,785 8,069 88,678	\$ 41,613 \$ 614,605 \$ 5,710 \$ 62,758	\$ \$ \$	3,668 34,558 507 5,576	5 - 5 - 5 -	\$711 \$6,378 \$98 \$1,081	\$ - \$ 5,644 \$ - \$ -	\$ - \$ 1,265 \$ - \$ -	\$ - \$ 3,222 \$ - \$ -	\$- \$- \$- \$-	\$ - \$ - \$ - \$ - \$ -	\$ 129 \$ 1,227 \$ 18 \$ 197	\$- \$- \$- \$-
Allocated Equity Return Total	\$ \$	1,195,459 34,234,839	\$ \$	912,353 \$ 29,163,716 \$	158,603 3,269,244	\$ 112,244 \$ 1,675,575	\$ \$	9,973 \$; -	\$ 1,934 \$ 9,335	\$- \$9,158	\$ - \$ 2,488	\$ - \$ 5,283	\$ - \$ -	- \$ -	\$ 352 \$ 4,495	\$ - \$ -

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment A UPDATED May 5, 2020 Page 14 of 14

Scenario 3

Minimum System Customer Costs Adjusted for PLCC - High Limit Fixed Customer Charge

USoA ccount #	Accounts	Total	Re	esidential	GS <50	GS 50 to 1,499 kW	GS 1,500 to 4,999 kW	GS >50- Intermediate	Large Use	Street Light	Sentinel	Unmetered Scattered Load	Embedded Distributor	Standby Power GS 50 to 1,499 kW	Standby Power GS 1,500 to 4,999 kW	Standby Power Large Use
	Distribution Plant															
	CDMPP	\$	- \$	- \$	-	\$ -	\$ -	\$ -	\$-	\$ -	\$-	\$ -	\$-	\$ -	\$ -	\$ -
	Poles, Towers and Fixture:	\$	- \$	- \$	-	\$ -	ş -	ş -	\$- *	\$ -	\$- ¢	ş -	\$-	ş -	\$ -	ş -
		φ ¢ 105.211.	- ə 177 ¢	175 501 194 ¢	14 096 310	φ - ¢ 1730.001	a	а - с	φ - ¢ 6103	φ ¢ 1.074.259	⊅ - ¢ 30.513	φ - ¢ 19/2/11	գ - «	3 - e	φ - ¢ 1664	 -
	SNCP	\$ 34,887)45 \$	31 822 213 \$	2 006 658	\$ 211 102	\$ 7,725	φ - \$ -	\$ 0,105	\$ 464.421	\$ 50,515	\$ 368.364	s -	s -	\$ 1,004 \$ -	s -
	Overhead Conductors and Devices	\$	- \$	- \$	-,	\$ -	\$ -	\$ -	s -	\$ -	\$ -	\$ -	\$-	\$ -	\$ -	s -
	LTNCP	\$ 37,379,3	339 \$	33,620,543 \$	2,697,755	\$ 319,683	\$ 3,826	\$ -	\$	\$ 378,206	\$ 5,845	\$ 352,948	\$-	\$ -	\$ -	\$ -
	CWCS	\$ 77,858,2	292 \$	63,713,700 \$	8,035,368	\$ 4,226,642	\$ 144,355	\$-	\$ 58,629	\$ 929,852	\$ 12,214	\$ 737,530	\$-	\$-	\$-	\$-
	CWMC	\$ 54,952,	377 \$	41,951,009 \$	7,292,739	\$ 5,161,109	\$ 458,587	\$-	\$ 88,934	\$-	\$-	\$-	\$-	\$-	\$-	\$-
	Sub-total	\$ 400,288,1	30 \$ 3	346,608,650 \$	34,118,837	\$ 11,649,438	\$ 651,703	\$-	\$ 155,173	\$ 3,746,738	\$ 54,673	\$ 3,301,254	\$-	\$-	\$ 1,664	\$-
	Accumulated Amortizatior Accum. Amortization of Electric Utility Plant -Line Transformers, Services and Meters	\$ (143,600,	366)\$ ((123,255,250) \$	(12,726,061)	\$ (4,863,994)	\$ (313,543)	\$-	\$ (77,520)	\$ (1,240,706)	\$ (18,151)	\$ (1,096,158)	\$-	\$-	\$ (8,983)	\$-
	Customer Related Net Fixed Assets	\$ 256,687,	64 \$	223,353,400 \$	21,392,776	\$ 6,785,444	\$ 338,159	\$-	\$ 77,652	\$ 2,506,032	\$ 36,522	\$ 2,205,097	\$-	\$-	\$ (7,318)	\$-
	Allocated General Plant Net Fixed Assets	\$ 50,424,9	973 \$	43,962,894 \$	4,137,586	\$ 1,288,780	\$ 63,716	\$-	\$ 14,615	\$ 503,415	\$ 7,570	\$ 447,773	\$-	\$-	\$ (1,375)	\$-
	Customer Related NFA Including General Plant	\$ 307,112,	38 \$	267,316,294 \$	25,530,362	\$ 8,074,224	\$ 401,875	\$ -	\$ 92,267	\$ 3,009,447	\$ 44,092	\$ 2,652,870	\$ -	\$-	\$ (8,693)	\$-
	Misc Revenue CWNB	\$ (443,	350) \$	(274,896) \$	(42,599)	\$ (90,714)	\$ (18,912)	\$ -	\$ (14,016)	\$ (1,715)	\$ (25)	\$ (948)	\$-	s -	\$ (26)	\$ -
	NFA	\$	- \$	- \$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$-	\$ -	\$ -	\$ -	\$ -	\$ -
	LPHA	\$ (1,000,	000) \$	(783,940) \$	(111,445)	\$ (92,163)	\$ (11,917)	\$ -	\$ (494)	\$ (40)	\$-	\$-	\$-	\$-	\$-	\$-
	Sub-total	\$ (1,443,8	350)\$	(1,058,836) \$	(154,044)	\$ (182,878)	\$ (30,829)	\$-	\$ (14,510)	\$ (1,755)	\$ (25)	\$ (948)	\$-	\$-	\$ (26)	\$ -
	Operating and Maintenance															
	1815-1855	\$ 4,309,	615 \$	3,724,781 \$	337,709	\$ 133,066	\$ 15,583	\$-	\$ 11,943	\$ 45,699	\$ 662	\$ 40,152	\$-	\$-	\$ 20	\$-
	1830 & 1835	\$ 1,290,3	243 \$	1,162,509 \$	90,270	\$ 10,896	\$ 252	\$ -	\$ 40	\$ 13,668	\$ 205	\$ 12,394	\$-	\$-	\$ 9	\$-
	1850	\$ 207,	794 \$	186,898 \$	14,997	\$ 1,777	\$ 21	\$ -	\$3	\$ 2,102	\$ 32	\$ 1,962	\$ -	\$ -	\$ -	\$ -
	1840 & 1845	\$ 1,425,	125 \$	1,284,088 \$	99,650	\$ 12,024	\$ 278	ş -	\$ 44	\$ 15,109	\$ 227	\$ 13,694	\$ -	\$ -	\$ 10	ş -
	CWMC	\$ 881,0	0/4 \$	0/2,8/8 \$	116,973	\$ 82,782	\$ 7,356	\$- ¢	\$ 1,426 ¢ 0	\$ - ¢ 2.270	\$- ¢	\$ - ¢ 2.690	\$- ¢	\$ - ¢	\$ 259	\$ - ¢
	O&M	φ 204,4 ¢	- \$	200,200 \$	20,490	\$ 2,010	ຈ ນນ ເ	s -	\$9 \$	\$ 3,379 \$ -	a 44 s -	\$ 2,000	φ - ¢ _	s -	⇒ ∠ \$	s -
	1830	\$ 177.	135 \$	159.948 \$	12.004	\$ 1.421	\$ 35	s -	\$5	\$ 1.961	\$ 29	\$ 1.731	\$-	š -	\$ 1	\$ -
	1835	\$ 210,	001 \$	188,798 \$	15,154	\$ 1,862	\$ 41	\$ -	\$ 7	\$ 2,124	\$ 33	\$ 1,982	\$-	\$ -	\$ 2	\$ -
	1855	\$ 387,3	265 \$	316,910 \$	39,968	\$ 21,023	\$ 718	\$-	\$ 292	\$ 4,625	\$ 61	\$ 3,668	\$-	\$-	\$-	\$-
	1840	\$ 133,	367 \$	120,844 \$	9,109	\$ 1,081	\$ 26	\$-	\$4	\$ 1,474	\$ 22	\$ 1,306	\$-	\$-	\$1	\$-
	1845	\$ 272,	587 \$	245,154 \$	19,677	\$ 2,418	\$ 53	\$ -	\$ 9	\$ 2,758	\$ 43	\$ 2,574	\$-	\$ -	\$ 2	\$ -
	1860 Sub-total	\$ 1,730,2	2/8 \$	1,320,517 \$	229,558	\$ 162,459	\$ 14,435	\$ - ¢	\$ 2,799 \$ 16,590	\$ - \$	\$ - \$ 1957	\$ -	ծ - «	\$ - ¢	\$ 509	5 - e
	Sub-total	φ 11,310,1	40 Q	3,030,014 \$	1,000,009	φ 433,320	φ 30,603	φ -	φ 10,380	φ 92,900	φ 1,357	φ 02,143	φ -	φ -	φ 817	φ -
	Billing and Collection															
	CWNB	\$ 10,726,	249 \$	9,614,330 \$	811,201	\$ 287,407	\$ 8,211	ş -	\$ 1,319	\$ 1,890	\$ 1,204	\$ 329	\$-	ş -	\$ 357	ş -
	RDUA		003 \$ 209 ¢	3/6,3/0 \$	30,209	35,656 44,025 44,	3 1,988 4	ə - e	ຈ 322 ເ	ъ - с	ა - ღ	ə -	ა - ღ	ა - ღ	৯ 58 ¢	ə -
	Sub-total	\$ 12,711,	60 \$	11,175,454 \$	981,033	\$ 467,088	\$ 82,104	\$ -	\$ 1,641	\$ 1,890	\$ 1,204	\$ 329	\$ -	\$ -	\$ 415	\$ -
	Sub Total Operating, Maintenance and Biling	\$ 24,021,3	09 \$	20,814,068 \$	1,986,592	\$ 900,414	\$ 120,957	\$ -	\$ 18,221	\$ 94,790	\$ 2,561	\$ 82,473	\$ -	\$ -	\$ 1,232	\$ -
	Amortization Expense - Customer Related	\$ 12,735,	578 \$	10,465,306 \$	1,260,989	\$ 733,845	\$ 78,445	\$-	\$ 37,950	\$ 83,262	\$ 1,202	\$ 73,129	\$-	s -	\$ 1,449	\$-
	Amortization Expense - General Plant assigned to Meters	\$ 4,482,)49 \$	3,907,664 \$	367,771	\$ 114,554	\$ 5,663	\$-	\$ 1,299	\$ 44,746	\$ 673	\$ 39,801	\$-	\$-	\$ (122)	\$-
	Admin and General	\$ 24,647,	180 \$	21,257,842 \$	2,075,947	\$ 969,478	\$ 130,441	\$-	\$ 19,779	\$ 101,540	\$ 2,594	\$ 88,284	\$-	\$-	\$ 1,275	\$-
	Allocated PILs	\$ 594,	677 \$	517,450 \$	49,561	\$ 15,720	\$ 783	\$ -	\$ 180	\$ 5,806	\$ 85	\$ 5,109	\$-	\$-	\$ (17)	\$ -
	Allocated Debt Return	\$ 6,535,4	187 \$	5,686,766 \$	544,678	\$ 172,763	\$ 8,610	ş -	\$ 1,977	\$ 63,806	\$ 930	\$ 56,144	\$-	ş -	\$ (186)	ş -
	Allocated Equity Return	\$ 11,688,	547 \$	776 904	974,168	\$ 308,990	\$ 15,399	s -	\$ 3,536	\$ 114,118	\$ 1,663	\$ 100,414	\$ -	s -	» (333) «	ъ -
	PLOC Adjustment for Line Transformer		202 \$ 225 \$	//0,804 \$ 5.705.051 ¢	62,306	φ 7,383 \$ 57,454	⇒ 68 € 1.254	ې - د	ຈ 12 \$ 2∩3	φ 8,/83 \$ 65,726	ວ - ເ	9 8,205 \$ 61.305	φ - ¢	а - с	- ¢	ې - د
	PLCC Adjustment for Primary Costs	\$ 1,934.4	152 \$	1,737,902 \$	132,043	\$ 16,068	9 1,254 \$ -	s -	φ 203 \$-	\$ 20,248	\$- \$-	\$ 28,191	\$- \$-	\$ -	φ 55 \$ -	s -
							A 000							•		
	Iotal	\$ 74,015,4	18 \$	63,450,496 \$	6,445,537	\$ 2,951,982	\$ 328,128	ş -	\$ 68,218	\$ 411,544	\$ 9,683	\$ 346,613	\$ -	\$ -	\$ 3,216	\$ -



1 5. STANDBY RATES

2 5.1. LOAD DISPLACEMENT STANDBY

3 Standby rates are being examined as part of the OEB's consultation on Commercial and
4 Industrial Rate Design ("C&I Rate Design"), with the potential implementation of a Capacity
5 Reserve Charge to replace Standby Charges.³ As a result, Hydro Ottawa is not seeking
6 Standby Rates on a final basis as part of this Application.

7

8 Once a final OEB report and policy change related to C&I Rate Design is released and
9 electricity distributors understand the resulting impact on Standby Charges, Hydro Ottawa will
10 determine next steps in requesting Standby rates on a final basis.

11

12 5.2. RELIABILITY STANDBY

Upon issuance of the final report for C&I Rate Design, Hydro Ottawa will review the treatment of Standby Rates relating to reliability. Seeing as Hydro Ottawa's intended rate design was linked to the current Standby rate design for load displacement (as initially proposed in the utility's 2017 rate adjustment application⁴), Hydro Ottawa believes it would be prudent at this time for the policy change related to C&I Rate Design to be completed prior to the utility seeking to introduce new rates to customers that may be addressed in that consultation generically.

19

20 If Hydro Ottawa is unable to recover the costs associated with additional reliability as a result of 21 the outcomes emerging from the OEB's consultation on C&I Rate Design, a separate 22 application relating to Standby Reliability charges will be filed.

²³ ³ Ontario Energy Board, *Rate Design for Commercial and Industrial Electricity Customers*, EB-2015-0043.

²⁴ ⁴ Hydro Ottawa Limited, 2017 Electricity Distribution Rate Application, EB-2016-0084 (August 15, 2016).

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment B ORIGINAL



Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment B ORIGINAL

Page Intentionally Blank

Table of Contents

1	Introd	luct	tion	1
	1.1	Ρu	urpose of the Cost Allocation Study	1
	1.2	Hy	/dro Ottawa's 2016 Cost Allocation	2
	1.3	St	ructure of the Report	3
2	Overv	/iev	v of the Hydro Ottawa 2021 CA Study	3
	2.1	Mo	odel Run Included in the Hydro Ottawa Cost Allocation Study	3
	2.2	Lo	ad and customer Information	4
	2.3	Сс	ost Information	5
3	Hydro	o Ot	ttawa Cost Allocation Study Methodology	5
	3.1	20	21 Hydro Ottawa CA Model	5
	3.1.	1	Hourly Load Profile (HONI File)	5
	3.1.	2	Demand Allocators	5
	3.1.	3	2021 Demand Data (Hydro Ottawa 2021 Model)	6
	3.1.	4	Meter Reading and Customer Billing Adjustment	6
	3.1.	5	Direct Allocation	7
4	Sumn	nar	y of Revenue to Cost Ratios	7
5	Fixed	Ch	narge Rates	8
6	Rate	Des	sign	9

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment B ORIGINAL

Page Intentionally Blank

Hydro Ottawa Limited EB-2019-0261 Exhibit 7 Tab 1 Schedule 1 Attachment B ORIGINAL Page 1 of 12

1 INTRODUCTION

Hydro Ottawa Limited ("Hydro Ottawa") has prepared its 2021-2025 Custom IR Application as a cost of service rate application based on a forward test year. The relevant filing requirements for this Application are set out in Chapter 2 of the July 12, 2018 update to the document entitled *Ontario Energy Board, Filing Requirements for Electricity Distribution Rate Applications, 2018 Edition for 2019 Rate Applications* ("Filing Requirements").

Section 2.7 of the Filing Requirements sets out the expectations of the Board with respect to Exhibit 7: Cost Allocation. The Filing Requirements on page 44 state:

A completed cost allocation study using the OEB-approved methodology, or a comparable study and model must be filed. This filing must reflect future loads and costs and be supported by appropriate explanations and live Microsoft Excel spreadsheets. The most current update of the model is available on the OEB's website. Sheets 11 and 12 of the RRWF21 must also be completed.¹

Hydro Ottawa asked Elenchus Research Associated (Elenchus) to assist it by preparing an appropriate cost allocation study for its 2021-2025 Custom IR rate application.

In addressing the cost allocation issues, Elenchus was guided by the Filing Requirements, the November 28, 2007 *Report of the Board, Application of Cost Allocation for Electricity Distributors* (EB-2007-0667) ("CA Application Report") which "sets out the Board's policies in relation to specific cost allocation matters for electricity distributors"² and the March 31, 2011 *Report of the Board, Review of Electricity Distribution Cost Allocation Policy* (EB-2010-0219) ("CA Review Report") in which the Board narrowed some revenue to cost ratio ranges, and committed to further consultations on unmetered and standby loads, as well as the Board's decisions in various electricity distributor cost of service proceedings that addressed relevant issues.

1.1 PURPOSE OF THE COST ALLOCATION STUDY

In the context of a cost of service rate application based on 2021 forward test year, the primary purpose of the cost allocation study ("CA Study") is to determine the proportions of a distributor's total revenue requirement that are the "responsibility" of each rate class.

Ontario Energy Board, Filing Requirements for Electricity Distribution Rate Applications (July 12, 2018), p. 44.

² Ontario Energy Board, Report of the Board, Application of Cost Allocation for Electricity Distributors (EB-2007-0667), November 28, 2007, page 1.

In addition, cost allocation studies provide revenue to cost ratios for each customer class that can be examined to ensure that they generally fall within the Board-specified ranges (or move toward those ranges where appropriate to mitigate rate impacts) and generally are not moving away from 100%.

Conceptually, Hydro Ottawa's prospective year CA Study for the 2021 test year is based on an allocation of the 2021 test year costs (i.e., the 2021 forecast revenue requirement) to the various customer classes using allocators that are based on the forecast class loads (kW and kWh) by class, customer counts, etc. By definition, this approach will result in a total revenue to cost ratio at proposed rates of 100%. Given a revenue deficiency for the test year, that is, existing rates are insufficient to recover Hydro Ottawa's 2021 revenue requirement, the total revenue to cost ratio at current rates would be somewhat below 100%.

1.2 HYDRO OTTAWA'S 2016 COST ALLOCATION

The last cost allocation study filed by Hydro Ottawa was in 2015 in Proceeding EB-2015-0004, based on the v 3.3 Cost Allocation Model³. The 2021 model was prepared in accordance with the internal documentation in the v 3.7 Cost Allocation Model (CA Model).

Hydro Ottawa's 2016 CA Study was prepared in accordance with the Filing Requirements, the November 28, 2007 *Report of the Board, Application of Cost Allocation for Electricity Distributors* (EB-2007-0667) ("CA Application Report") which "sets out the Board's policies in relation to specific cost allocation matters for electricity distributors"⁴ and the March 31, 2011 *Report of the Board, Review of Electricity Distribution Cost Allocation Policy* (EB-2010-0219) ("CA Review Report").

Hydro Ottawa filed a separate cost allocation model for each year of the rate period in Proceeding EB-2015-0004. These cost allocation models formed the basis for differential rate increases for each class in each year of the rate period. In preparation of the cost allocation and rate design for this application Hydro Ottawa informed Elenchus that the most significant asset entering service during the rate period is a transmission station.

This asset is not expected to materially change the allocation of costs among rate classes to the extent that would require separate cost allocation models during the rate period. Elenchus advised that a single cost allocation model based on the test year would be

³ The models initially filed in EB-2015-0004 were based on v 3.2 as they were prepared before v 3.3 was provided by the Board. The final "Settlement" models were based on v 3.3.

⁴ Ontario Energy Board, Report of the Board, Application of Cost Allocation for Electricity Distributors (EB-2007-0667), November 28, 2007, page 1.

suitable for the purposes of cost allocation and rate design for this CIR application. Aside from the Sentinel class that requires bill impact mitigation, uniform annual rate increases from 2022 to 2025 are appropriate.

1.3 STRUCTURE OF THE REPORT

The remainder of this report is divided into five additional sections. Section 2 provides an overview of the Hydro Ottawa CA Study, explaining the model run included in the study, as well as the load and cost information used for the run. Section 3 explains the methodology used to develop the 2021 Hydro Ottawa model by documenting each step taken in completing the model. Section 4 summarizes the results of the Hydro Ottawa CA Study, showing the class revenue requirements and revenue to cost ratios generated by the CA model. Section 5 shows the fixed charge unit costs per month and the fixed charge boundary values as calculated in the cost allocation models for 2021. Section 6 shows the rate design approach proposed by Hydro Ottawa.

2 OVERVIEW OF THE HYDRO OTTAWA 2021 CA STUDY

2.1 MODEL RUN INCLUDED IN THE HYDRO OTTAWA COST ALLOCATION STUDY

Section 2.7.3 of the updated Filing Requirements specifies that the third table in sheet 11 of the RRWF, "...combines information from the previous two tables in the form of revenue-to-cost ratios and includes the following information for each class:"

- The previously approved ratios most recently implemented by the distributor;
- The ratios that would result from the most recent approved distribution rates and the distributor's forecast of billing quantities in the test year, prorated upwards or downwards (as applicable) to match the revenue requirement, and expressed as ratios with the class revenue requirements derived in the updated cost allocation model; and
- The ratios that are proposed for the test year.

For clarity, the following designations are used.

Ottawa-2016: The Hydro Ottawa 2016 revenue to cost ratios.

Ottawa-2021: The version 3.7 CA Model with 2021 loads, costs, and revenues

2.2 LOAD AND CUSTOMER INFORMATION

The updated Filing Requirements specify that "This filing must reflect future loads and costs..." and "If a distributor is not able to update its load profiles at this time, an explanation should be provided and the distributor should confirm that it intends to put plans in place to update its load profiles the next time a cost allocation model is filed. In such cases, the load profiles provided by Hydro One for use in the original Informational Filing may be used, scaled to match the load forecast as it relates to the respective rate classes (see section 2.3.2 above)." p. 44).

The Hydro Ottawa-2021 model has been prepared using the following load and load profile information:

- Annual Loads (kW and kWh, as appropriate) and customer counts: The 2021 load forecast and customer counts by class being used by Ottawa in its application were also used for the 2021 CA model.
- Hourly load profile: Hydro Ottawa was unable to obtain hourly load data required to derive updated load profiles. In lieu of updated hourly load profiles, Elenchus has derived demand data figures with hourly demand figures used in prior rate applications adjusted to the monthly 2021 load forecast.

Hourly load profiles prepared by Hydro One for the 2006 Cost Allocation Information Filing (CAIF) are used for all classes except the Large Use class. Load data for the Large Use class is from 2013. The sources of load data used to derive 2021 demand data is unchanged from the load data used in Hydro Ottawa's 2016-2020 cost of service application (EB-2015-0004).

The Board has indicated that demand data should not be updated unless all classes can be updated. Hydro Ottawa updated the load data for the Large Use class at that time because of the change in composition of its Large Use customers. Elenchus, in its report on Hydro Ottawa's 2016-2020 cost allocation models⁵, supported updating Large Use data because the class is not weather-sensitive. Incorporating the 2013 Large Use data did not require weather-normalizing demand so adjusting for differences between weather in 2006 and 2013 was not required. Demand profiles from the different years were all scaled to annual forecast consumption in 2016-2020, mitigating most of the impact of using demand profiles from different years.

Elenchus' position was that the benefit of using data that more accurately reflected Hydro Ottawa's Large Use customers outweighed the drawbacks, which are largely minimized because the class is not weather-sensitive. In the absence of more current

⁵ EB-2015-0004, Exhibit G, Tab 1, Schedule 1, Attachment A

data, Elenchus used the same load research data used in the EB-2015-0004 proceeding to derive 2021 demand data.

2.3 COST INFORMATION

As noted earlier, the Filing Requirements mandate that the cost allocation models be prepared on the basis of prospective test year information. In the case of Hydro Ottawa, the financial information for the forecast year has been prepared at the USoA level with respect to capital assets. Operations, Maintenance and Administration costs were established in conjunction with Hydro Ottawa's budgeting process.

3 <u>HYDRO OTTAWA COST ALLOCATION STUDY</u> <u>METHODOLOGY</u>

This section documents Elenchus' methodology for the Hydro Ottawa Cost Allocation Study, the 2021 CA Model.

3.1 2021 HYDRO OTTAWA CA MODEL

3.1.1 HOURLY LOAD PROFILE (HONI FILE)

As previously described, the hourly load profile data is primarily from Hydro One's 2006 CAIF. The Hydro Ottawa hourly load shapes derived by Hydro One for the 2006 CAIF were not updated. However, the demand allocators derived by Hydro One for the 2006 CAIF were revised to reflect changes in the relative loads for the classes from 2006 to 2021. This was done by scaling the hourly load profiles of each class on the Hourly Load Shape by Class worksheet of the HONI file to levels consistent with the 2021 load forecast years while maintaining the hourly load shapes.

Elenchus had previously calculated and applied annual scaling factors for EB-2015-0004. The demand data in this application relies on monthly consumption scaling factors to better reflect trends in seasonal energy use since 2006 caused by energy efficiency improvements in lighting and heating and cooling. For the Large User customer class, 2013 actual interval hourly data was used, scaled to levels consistent with the 2021 load forecast months while maintaining the hourly load shapes.

3.1.2 DEMAND ALLOCATORS

The demand allocators used in the Hydro Ottawa 2021 CA model were derived using the same methodology as Hydro Ottawa used for the 2016-2020 CA models; however, they were re-determined using the forecast 2021 hourly load profiles resulting from the preceding step. Using the 2021 hourly load profiles by class, the 12 monthly coincident

and non-coincident peaks for the rate classes were determined. The allocators were then derived as follows:

- The 1, 4 and 12 NCP values for each class were calculated by selecting the peak in the year (1 NCP), summing the four highest monthly peaks (4 NCP) and summing the 12 monthly peaks for each class (12 NCP), respectively.
- The total 1, 4 and 12 NCP values are the totals of the corresponding class NCP values.
- The 1, 4 and 12 CP values for each class were derived by identifying the hour in each month when the coincident peak occurred and then selecting the peak in the year (1 CP), adding the demands during the four highest coincident peak hours (4 CP) and summing the demand for each class during the 12 monthly coincident peak hours (12 CP), respectively.
- The total 1, 4 and 12 CP values are the totals of the corresponding class CP values, which are the values used to identify the relevant coincident peak hours.

3.1.3 2021 DEMAND DATA (HYDRO OTTAWA 2021 MODEL)

The demand allocators derived in the updated Hydro One file as described in the preceding section were input at the appropriate cells at sheet I8 Demand Data of the 2021 Hydro Ottawa CA Model. However, the Line Transformer and Secondary 1NCP, 4NCP and 12NCP values for GS > 50 to 1499, GS > 1500 to 4999, and Large User customer classes are not equal to the full class NCP values since not all customers in these customer classes use these facilities. The Line Transformer and Secondary 1NCP, 4NCP and 12NCP values were therefore determined from the full load data NCP values using the ratio of values in the 2016-2020 models, which were taken from the 2006 CA Model.

3.1.4 METER READING AND CUSTOMER BILLING ADJUSTMENT

Hydro Ottawa has vendors that provide both customer billing and meter reading services. The costs of these services are included entirely within Customer Billing (USoA No. 5315). The meter reading costs that are included in Customer Billing have been reclassified to Meter Reading Expense (USoA No. 5310) so that the relevant balance is allocated by the relevant allocation factors (CWMR) instead of the Customer Billing allocation factors (CWNB).

3.1.5 DIRECT ALLOCATION

Demonstrating and Selling Expense (USoA No. 5510) has been directly assigned to rate classes within tab 'I9 Direct Allocation'. This cost is directly allocated based on analysis of the proportionate estimated direct support effort, in terms of time, attributable to each of Hydro Ottawa's Key Account customers, by customer class.

This allocation is more reflective of the costs caused by each class than the default composite OM&A allocator, which would allocate most of the cost to the Residential class that is only responsible for a small share. Demonstration and Selling Expense is the only cost that is directly allocated.

4 SUMMARY OF REVENUE TO COST RATIOS

The class revenue-to-cost ratios as determined in the Hydro Ottawa cost allocation model is shown in Table 1, below.

		Ottawa 2021	Board Target
Customer Class	Ottawa 2016	Status Quo Rates	Range
Residential	102.9	103.98	85-115
GS < 50 kW	118.5	123.53	80-120
GS > 50 to 1,499 kW	87.4	85.07	80-120
GS > 1,500 to 4,999 kW	103.2	97.07	80-120
Large Use	88.1	79.48	85-115
Street Light	80.0	126.22	80-120
Sentinel	61.2	54.29	80-120
USL	119.9	113.31	80-120
Standby Power	22.5	155.69	
Total	100.0	100.00	

Table 1: Revenue to Cost Ratios

The Hydro Ottawa 2021 ratios (at Status Quo rates) reflect the impact of changes in throughput by class as well as changes in costs from 2016 through the 2021 forecast test year.

Table 2 presents the revenue responsibility (i.e., allocation of the total revenue requirement to the rate classes) in the model. This revenue responsibility is presented in both dollar and percentage terms.

	Ottawa 20	016	Ottawa 20	21
Customer Class	\$	%	\$	%
Residential	94,252,272	53.8	118,467,234	55.1
GS < 50 kW	18,493,124	10.6	21,458,225	10.0
GS > 50 to 1,499 kW	42,966,162	24.5	53,434,771	24.9
GS > 1,500 to 4,999 kW	10,435,898	6.0	11,287,559	5.3
Large Use	6,837,135	3.9	8,700,527	4.0
Street Light	1,519,551	0.9	971,554	0.5
Sentinel	8,546	0.0	9,764	0.0
USL	473,436	0.3	543,397	0.3
Standby Power	58,540	0.0	13,205	0.0
Total	175,044,665	100.0	214,886,236	100.0

Table 2: Revenue Responsibility by Rate Class

5 FIXED CHARGE RATES

The Hydro Ottawa cost allocation model produced the following customer unit cost per month values:

Customer Class	Avoided Cost	Directly Related	Minimum System with PLCC ⁶ Adjustment
Residential	4.23	7.68	16.61
GS < 50 kW	6.25	10.73	21.04
GS > 50 to 1,499 kW	26.42	44.74	78.79
GS > 1,500 to 4,999 kW	66.93	117.00	403.82
Large Use	12.85	70.42	526.69
Street Light	0.07	0.18	8.09
Sentinel	1.85	3.77	14.52
USL	0.05	0.13	8.58
Standby Power	84.58	124.83	89.70

Table 3: 2021 Customer Unit Cost per Month

In accordance with Board policy,⁷ the following boundary values would apply for the fixed monthly service charge:

⁶ PLCC: 'Peak Load Carrying Capacity'

⁷ Ontario Energy Board, Report of the Board, Application of Cost Allocation for Electricity Distributors (EB-2007-0667), November 28, 2007, pages 12-13

	Cost Allocation		Existing	Boundary Values		
Customer Class	Low	High	Rate	Minimum	Maximum	
Residential	4.23	16.61	27.79	4.23	27.79	
GS < 50 kW	6.25	21.04	19.32	6.25	21.04	
GS > 50 to 1,499 kW	26.42	78.79	200.00	26.42	200.00	
GS > 1,500 to 4,999 kW	66.93	403.82	4,193.93	66.93	4,193.93	
Large Use	12.85	526.69	15,231.32	12.85	15,231.32	
Street Light	0.07	8.09	0.91	0.07	8.09	
Sentinel	1.85	14.52	3.17	1.85	14.52	
USL	0.05	8.58	5.09	0.05	8.58	
Standby Power	84.58	124.83	145.13	84.58	145.13	

Table 4: 2021 Fixed Charge Boundary Values

6 RATE DESIGN

The results of the cost allocation study for 2021 for Hydro Ottawa are the starting point for Hydro Ottawa's Distribution rate design.

The revenue requirement by class determined in the cost allocation study is used to calculate the revenue to cost ratio by customer class. Distribution Revenues are assumed to increase from 2020 approved Distribution rates by 9.13%, the overall revenue requirement increase proposed for 2021.

The revenue to cost ratios by customer class for 2021 are analyzed to determine if the ratios are within the ranges of revenue to cost ratios approved by the OEB for each customer class.

The following table shows the revenue to cost ratios from the cost allocation model and the OEB approved revenue to cost ratio ranges by customer class.

Customer Class	Cost Allocation Study	OEB Approved Range	Within Range
Residential	103.98	85 to 115	Yes
GS<50	123.53	80 to 120	No
GS 50 to 1,499 kW	85.07	80 to 120	Yes
GS 1,500 to 4,999 kW	97.07	80 to 120	Yes
Large Use	79.48	85 to 115	No
Street Light	126.22	80 to 120	No
Sentinel	54.29	80 to 120	No
Unmetered Scattered Load	113.31	80 to 120	Yes
Standby Power	155.69		

Table 5: Revenue to Cost Ratios

As shown in the above table, GS<50, Large Use, Street Light and Sentinel Light have revenue to cost ratios that are not within the OEB approved range of revenue to cost ratios for the class.

OEB guidelines are that the revenue to cost ratios for customer classes should be brought to within the OEB approved revenue to cost ratio ranges taken into consideration the bill impact to customers.

Hydro Ottawa is proposing to reduce the revenue to cost ratios for GS<50 and Street Light customer classes that exceed the revenue to cost ratio upper range to bring the revenue to cost ratios for these two customer classes to 120.

Hydro Ottawa is proposing to increase the revenue to cost ratio for the Large Use and Sentinel customer classes that are below the revenue to cost ratio lower range to bring the revenue to cost ratios for the Large Use to 85 and Sentinel to 80.

Hydro Ottawa proposes to mitigate the bill impact to Sentinel customer class of the increase in the revenue to cost ratio to the target of 80 from the current 54.29 by implementing revenue to cost ratio increases over a 5-year period. For 2021, the Sentinel customer class revenue to cost ratio is proposed to be 59.75.

The revenue to cost ratio for Standby Power in the cost allocation study is 155.69. In Proceeding EB-2015-0043, the OEB is reviewing the rate design for Commercial and Industrial Electricity customers, including Standby Rates rate design. Since the OEB review is still ongoing, Hydro Ottawa is proposing to maintain the revenue to cost ratio for Standby Power in this application.

Once the proposed revenue to cost ratio by customer class have been determined as described above, Hydro Ottawa calculated that after reducing the revenue requirement for GS<50 and Street Light and increasing the revenue requirement for Large Use and Sentinel for 2021, there is a revenue requirement shortfall that needs to be recovered from other customer classes. Hydro Ottawa is proposing to recover the revenue shortfall from the customer classes that have revenue to cost ratios below 100, that is the GS 50 to 1,499 kW, GS 1,500 to 4,999 kW and Large use classes.

The following tables shows the revenue to cost ratios and revenue requirement being proposed by Hydro Ottawa by customer class.

Customer Class	Cost Allocation Study	Proposed	Within Range
Residential	103.98	103.99	Yes
GS<50	123.53	119.77	Yes
GS 50 to 1,499 kW	85.07	85.57	Yes
GS 1,500 to 4,999 kW	97.07	97.62	Yes
Large Use	79.48	85.50	Yes
Street Light	126.22	120.00	Yes
Sentinel	54.29	59.75	No
Unmetered Scattered Load	113.31	113.25	Yes
Standby Power	155.69	155.69	

Table 6: Proposed Customer Class Revenue to Cost Ratios

Table 7: Proposed Customer Class Revenue Requirement (\$)

Customer Class	Revenues at Current rates	Adjustment	Proposed	
Residential	123,184,118		123,184,118	
GS<50	26,507,795	(757,926)	25,749,870	
GS 50 to 1,499 kW	45,455,011	240,230	45,695,240	
GS 1,500 to 4,999 kW	10,956,607	57,906	11,014,513	
Large Use	6,914,855	519,678	7,434,533	
Street Light	1,226,285	(60,420)	1,165,865	
Sentinel	5,301	533	5,834	
Unmetered Scattered Load	615,705		615,705	
Standby Power	20,559	-	20,559	
Total	214,886,236	0	214,886,236	

The distribution rate design by customer class was based on the following criteria:

- Residential: 100% fixed charge
- All other customer classes fixed and variable charges

The GS 50 to 1,499 kW, GS 1,500 to 4,999 kW, Large Use and Standby Power customer classes have fixed distribution charges that exceed the upper range of Fixed distribution charges as calculated in the cost allocation study. Hydro Ottawa is proposing to maintain the fixed charge for these classes at their 2020 approved values. For these customer classes, the variable distribution charge will be changed to recover each class' proposed revenue requirement.

For the remaining customer classes, Hydro Ottawa is proposing to maintain the proportion of revenues collected from fixed and variable distribution charges, taking into consideration bill impacts by customer class. Table 8 shows the proposed distribution rates.

Quetemer Class	Appro	ved	Proposed			
Customer Class	Fixed	Variable	Fixed	Variable		
Residential	27.79		30.33			
GS<50	19.32	0.025	20.46	0.0264		
GS 50 to 1,499 kW	200.00	4.8760	200.00	5.4567		
GS 1,500 to 4,999 kW	4,193.93	4.4562	4,193.93	5.0861		
Large Use	15,231.32	4.2422	15,231.32	5.2741		
Street Light	0.91	6.3414	0.94	6.5889		
Sentinel	3.17	14.8502	3.88	18.1382		
Unmetered Scattered Load	5.09	0.0242	5.55	0.0264		
Standby Power	145.13	1.7766	158.38	1.9388		

Table 8: Distribution Rates

The following table shows the proportion of revenue requirement from fixed and variable distribution charges. Hydro Ottawa proposes to maintain the same shares of fixed and variable revenues by class except for classes that have existing fixed rates above the maximum.

Customer Class	Status Q	uo Rates ⁸	Proposed Rates			
Customer Class	Fixed	Variable	Fixed	Variable		
Residential	100		100			
GS<50	25	75	25	75		
GS 50 to 1,499 kW	19	81	17	83		
GS 1,500 to 4,999 kW	35	65	31	69		
Large Use	33	67	27	73		
Street Light	64	36	64	36		
Sentinel	52	48	52	48		
Unmetered Scattered Load	38	62	38	62		
Standby Power	28	72	28	72		

Table 9: Proportion of Distribution Revenues (%)

⁸ Status Quo shares of fixed and variable revenues are derived with forecast 2021 customer/connection counts and billing determinants and 2020 rates.

Figures used in CA model based on historic loads scaled by 2021 monthly consumption forecasts See '2021 (Monthly Scaling)' tab. Results using annual scaling factors included for reference

	Residential	GS < 50 kW	GS > 50 < 1500	GS > 1500 < 5000	LU	Street Lighting	Sentinel Lighting	USL	standby
1 CP									
Transformation CP	498,428	117,727	464,152	110,159	84,759	-	-	1,383	412
Bulk Delivery CP	498,428	117,727	464,152	110,159	84,759	-	-	1,383	412
Total Sytem CP	498,428	117,727	464,152	110,159	84,759	-	-	1,383	412
4 CP									
Transformation CP	1,917,197	489,889	1,842,290	384,636	304,601	5,808	8	5,845	412
Bulk Delivery CP	1,917,197	489,889	1,842,290	384,636	304,601	5,808	8	5,845	412
Total Sytem CP	1,917,197	489,889	1,842,290	384,636	304,601	5,808	8	5,845	412
12 CP									
Transformation CP	4,905,357	1,316,881	5,119,659	1,090,578	884,827	31,331	53	18,342	642
Bulk Delivery CP	4,905,357	1,316,881	5,119,659	1,090,578	884,827	31,331	53	18,342	642
Total Sytem CP	4,905,357	1,316,881	5,119,659	1,090,578	884,827	31,331	53	18,342	642
1NCP									
Classification NCP from Load Da	575,660	145,496	498,153	125,654	95,229	6,444	15	1,896	1,152
Primary NCP	575,660	145,496	498,153	125,654	95,229	6,444	15	1,896	1,152
Line Transformer NCP	575,660	145,496	433,393	55,287	44,757	6,444	15	1,896	680
Secondary NCP	575,660	145,496	249,078	-	-	6,444	15	1,896	-
4 NCP		-	-	-	-	-	-	-	-
Classification NCP from Load Da	2,133,287	561,644	1,967,131	486,541	374,664	23,998	58	7,492	412
Primary NCP	2,133,287	561,644	1,967,131	486,541	374,664	23,998	58	7,492	412
Line Transformer NCP	2,133,287	561,644	1,711,403	214,078	176,092	23,998	58	7,492	243
Secondary NCP	2,133,287	561,644	983,566	-	-	23,998	58	7,492	-
12 NCP	-	-	-	-	-	-	-	-	-
Classification NCP from Load Da	5,508,979	1,531,293	5,508,529	1,295,932	1,012,783	62,128	142	21,161	642
Primary NCP	5,508,979	1,531,293	5,508,529	1,295,932	1,012,783	62,128	142	21,161	642
Line Transformer NCP	5,508,979	1,531,293	4,792,421	570,210	476,008	62,128	142	21,161	379
Secondary NCP	5,508,979	1,531,293	2,754,265	-	-	62,128	142	21,161	-



UNMETERED LOADS

On June 12, 2015, the OEB updated the cost allocation policy for the Street Lighting rate class and issued an update to the *Report of the Board: Review of the Board's Cost Allocation Policy for Unmetered Loads.*¹ As a result of the policy change, the OEB updated the cost allocation model with the 2016 version of the *Filing Requirements for Electricity Distribution Rate Applications.*

8

1

2

9 As a result of the cost allocation policy change, Hydro Ottawa updated its 2016-2020 Custom 10 Incentive Rate-Setting application² to incorporate the updated cost allocation model and impact 11 on rate design. As part of its 2016 rates, Hydro Ottawa moved Street Lighting and unmetered 12 scattered load ("USL") within OEB-approved ranges. As part of the Approved Settlement 13 Agreement,³ Parties accepted Hydro Ottawa's inputs into the cost allocation models and 14 placement of rate classes within their ranges, with the modification that Sentinel Lighting move 15 within the OEB's approved range by 2020. Effective January 1, 2020, the Sentinel Lighting rates 16 fall within the OEB-approved range. Hydro Ottawa is not proposing any further changes as a 17 result of the OEB's review of the cost allocation policy for Unmetered Loads.

¹ Ontario Energy Board, Letter re: *Issuance of New Cost Allocation Policy for Street Lighting Rate Class*, EB-2012-0383 (June 12, 2015).

² Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Distribution Rate Application, EB-2015-0004 (April 29, 2015).

³ Hydro Ottawa Limited, 2016-2020 Custom Incentive Rate-Setting Approved Settlement Proposal, EB-2015-0004 (December 7, 2015).