

1 **EXHIBIT 1- ADMINISTRATION**

2  
3 **Response to Ontario Energy Board Staff 1-Staff-1**

4  
5 **Interrogatory:**

6  
7 **Responses to Letters of Comment**

8  
9 Following publication of the Notice of Application, the Board received 1 letter of  
10 comment. Sections 2.4.2 and 2.4.5 of the Filing Requirements state that distributors  
11 will be expected to file with the Board their response to the matters raised within any  
12 letters of comment sent to the Board related to the distributor's application. If the  
13 applicant has not received a copy of the letters, they may be accessed from the public  
14 record for this proceeding.

15  
16 Please file a response to the matters raised in the letter of comment referenced above.  
17 Going forward, please ensure that responses are filed to any subsequent letters that  
18 maybe submitted in this proceeding. All responses must be filed before the argument  
19 (submission) phase of this proceeding.

20  
21 **Response:**

22  
23 Kingston Hydro did not respond to the one letter of comment received on the record.  
24 Kingston Hydro cannot find Margaret Knapp in its customer database and believes she  
25 is likely a customer that resides in Hydro One's distribution area, given her comments  
26 regarding Hydro One.

1 **EXHIBIT 1 – ADMINISTRATION**

2  
3 **Response to Ontario Energy Board Staff Interrogatory 1-Staff-2**

4  
5 **Interrogatory:**

6  
7 **Conditions of Service**

8  
9 a) Please identify any rates and charges that are included in the Applicant's  
10 Conditions of Service, but do not appear on the Board-approved tariff sheet, and  
11 provide an explanation for the nature of the costs being recovered through these  
12 rates and charges.

13  
14 b) Please provide a schedule outlining the revenues recovered from these rates and  
15 charges from 2012 to 2014 inclusive, and the revenues forecasted for the 2015  
16 bridge and 2016 test years.

17  
18 c) Please explain whether, in the Applicant's view, these rates and charges  
19 should be included on the Applicant's tariff sheet of approved rates and  
20 charges.

21  
22 **Response:**

23  
24 a) There are no rates and charges that are included in Kingston Hydro's  
25 Conditions of Service, but do not appear on the Board-approved tariff sheet.

26  
27 b) Not applicable.

28

29 c) Not applicable.

1 **EXHIBIT 1 – ADMINISTRATION**

2  
3 **Response to Ontario Energy Board Staff Interrogatory 1-Staff-3**

4  
5 **Interrogatory:**

6  
7 **Updated RRWF**

8  
9 Upon completing all interrogatories from Board staff and intervenors, please provide  
10 an updated RRWF in working Microsoft Excel format with any corrections or  
11 adjustments that the Applicant wishes to make to the amounts in the populated  
12 version of the RRWF filed in the initial applications. Entries for changes and  
13 adjustments should be included in the middle column on sheet 3 Data\_Input\_Sheet.  
14 Please include documentation of the corrections and adjustments, such as a  
15 reference to an interrogatory response or an explanatory note. Such notes should be  
16 documented on Sheet 10 Tracking Sheet, and may also be included on other sheets  
17 in the RRWF to assist understanding of changes.

18  
19 **Response:**

20  
21 Revised RRWFs filed for each of 2016-2020.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Ontario Energy Board Staff Interrogatory 1-Staff-4**

4  
5 **Interrogatory:**

6  
7 **Updated Appendix 2-W, Bill Impacts**

8  
9 Upon completing all interrogatories from Board staff and intervenors, please  
10 provide an updated Appendix2-W for all classes at the typical consumption/  
11 demand levels (e.g. 800kWh for residential, 2,000kWh for GS<50, etc.).

12  
13 **Response:**

14  
15 Updates provided.

# Response to Ontario Energy Board Staff Interrogatory 1-Staff-4

## Attachment 1

# Appendix 2-W Bill Impacts

Customer Class: **Residential**

**Residential**

TOU / non-TOU: **TOU**

Consumption **100** kWh ☒ May 1 - October ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%	\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
Smart Meter (SMIR) Rate Rider	Monthly	\$ 2.6300	1	\$ 2.63	\$ -	1	\$ -	-\$ 2.63	-100.00%	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.25	1	\$ 0.25	\$ 0.25		\$ -	1	\$ -	-\$ 0.25	-100.00%
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ 1.08	1	\$ 1.08	\$ 1.08		\$ 1.08	1	\$ 1.08	\$ -	0.00%
			1	\$ -		1	\$ -	\$ -			1	\$ -	\$ -	
			1	\$ -		1	\$ -	\$ -			1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0154	100	\$ 1.54	\$ 0.0126	100	\$ 1.26	-\$ 0.28	-18.18%	\$ 0.0087	100	\$ 0.87	-\$ 0.39	-30.95%
Rate Rider Tax Change (2015)	per kWh	-\$ 0.0001	100	\$ 0.01	\$ -	100	\$ -	\$ 0.01	-100.00%	\$ -	100	\$ -	\$ -	
LRAM VA (2016)	per kWh	\$ -	100	\$ -	\$ 0.0003	100	\$ 0.03	\$ 0.03		\$ -	100	\$ -	-\$ 0.03	-100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	100	\$ -	\$ 0.0004	100	\$ 0.04	\$ 0.04		\$ -	100	\$ -	-\$ 0.04	-100.00%
	per kWh	\$ -	-	\$ -		-	\$ -	\$ -			-	\$ -	\$ -	
		\$ -	100	\$ -		100	\$ -	\$ -			100	\$ -	\$ -	
			100	\$ -		100	\$ -	\$ -			100	\$ -	\$ -	
			100	\$ -		100	\$ -	\$ -			100	\$ -	\$ -	
			100	\$ -		100	\$ -	\$ -			100	\$ -	\$ -	
			100	\$ -		100	\$ -	\$ -			100	\$ -	\$ -	
			100	\$ -		100	\$ -	\$ -			100	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>				\$ 16.72			\$ 19.06	\$ 2.34	14.00%			\$ 21.73	\$ 2.67	14.01%
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	100	\$ -	\$ 0.0010	100	\$ 0.10	\$ 0.10		\$ -	100	\$ -	-\$ 0.10	-100.00%
			100	\$ -		100	\$ -	\$ -			100	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	100	\$ -	-\$ 0.0024	100	-\$ 0.24	-\$ 0.24		-\$ 0.0024	100	-\$ 0.24	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kWh	\$ 0.0156	0	\$ -	\$ -	100	\$ -	\$ -		\$ -	100	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kWh	\$ -	100	\$ -	\$ 0.0137	0	\$ -	\$ -		\$ -	100	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0007	100	\$ 0.07	\$ 0.0012	100	\$ 0.12	\$ 0.05	71.43%	\$ 0.0012	100	\$ 0.12	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	3.44	\$ 0.33	\$ 0.0950	3.93	\$ 0.37	\$ 0.05	14.24%	\$ 0.0950	3.93	\$ 0.37	\$ -	0.00%
Smart Meter Entity Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 17.91			\$ 20.20	\$ 2.30	12.83%			\$ 22.77	\$ 2.57	12.72%
RTSR - Network	per kWh	\$ 0.0067	103	\$ 0.69	\$ 0.0071	104	\$ 0.74	\$ 0.04	6.47%	\$ 0.0071	104	\$ 0.74	\$ -	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0051	103	\$ 0.53	\$ 0.0056	104	\$ 0.58	\$ 0.05	10.32%	\$ 0.0056	104	\$ 0.58	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 19.13			\$ 21.52	\$ 2.40	12.53%			\$ 24.09	\$ 2.57	11.94%
Wholesale Market Service Charge (WMS)	per kWh	\$ 0.0044	103	\$ 0.46	\$ 0.0044	104	\$ 0.46	\$ 0.00	0.47%	\$ 0.0044	104	\$ 0.46	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	103	\$ 0.13	\$ 0.0013	104	\$ 0.14	\$ 0.00	0.47%	\$ 0.0013	104	\$ 0.14	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	100	\$ 0.70	\$ 0.0070	100	\$ 0.70	\$ -	0.00%	\$ 0.0070	100	\$ 0.70	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	64	\$ 4.93	\$ 0.0770	64	\$ 4.93	\$ -	0.00%	\$ 0.0770	64	\$ 4.93	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	18	\$ 2.05	\$ 0.1140	18	\$ 2.05	\$ -	0.00%	\$ 0.1140	18	\$ 2.05	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	18	\$ 2.52	\$ 0.1400	18	\$ 2.52	\$ -	0.00%	\$ 0.1400	18	\$ 2.52	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	100	\$ 8.80	\$ 0.0880	100	\$ 8.80	\$ -	0.00%	\$ 0.0880	100	\$ 8.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	0	\$ -	\$ 0.1030	0	\$ -	\$ -		\$ 0.1030	0	\$ -	\$ -	
<b>Total Bill on TOU (before Taxes)</b>				\$ 30.17			\$ 32.57	\$ 2.40	7.95%			\$ 35.14	\$ 2.57	7.89%
HST		13%		\$ 3.92	13%		\$ 4.23	\$ 0.31	7.95%	13%		\$ 4.57	\$ 0.33	7.89%
<b>Total Bill (including HST)</b>				\$ 34.09			\$ 36.80	\$ 2.71	7.95%			\$ 39.70	\$ 2.90	7.89%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				-\$ 3.41			-\$ 3.68	-\$ 0.27	7.92%			-\$ 3.97	-\$ 0.29	7.88%
<b>Total Bill on TOU (including OCEB)</b>				\$ 30.68			\$ 33.12	\$ 2.44	7.95%			\$ 35.73	\$ 2.61	7.89%
<b>Total Bill on RPP (before Taxes)</b>				\$ 29.47			\$ 31.87	\$ 2.40	8.14%			\$ 34.44	\$ 2.57	8.07%
HST		13%		\$ 3.83	13%		\$ 4.14	\$ 0.31	8.14%	13%		\$ 4.48	\$ 0.33	8.07%
<b>Total Bill (including HST)</b>				\$ 33.30			\$ 36.01	\$ 2.71	8.14%			\$ 38.91	\$ 2.90	8.07%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				-\$ 3.33			-\$ 3.60	-\$ 0.27	8.11%			-\$ 3.89	-\$ 0.29	8.06%
<b>Total Bill on RPP (including OCEB)</b>				\$ 29.97			\$ 32.41	\$ 2.44	8.14%			\$ 35.02	\$ 2.61	8.07%

Loss Factor (%) **3.44%**

**3.93%**

**3.93%**

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%	\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
Distribution Volumetric Rate	per kWh	\$ 0.0154	100	\$ 1.54	\$ 0.0126	100	\$ 1.26	-\$ 0.28	-18.18%	\$ 0.0087	100	\$ 0.87	-\$ 0.39	-30.95%
<b>"Regular" Distribution Only</b>				\$ 14.10			\$ 17.66	\$ 3.56	25.25%			\$ 20.65	\$ 2.99	16.93%

Customer Class:

Residential

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%	
Smart Meter (SMIR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Recovery of Stranded Meters	\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%	
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
Distribution Volumetric Rate	\$ 0.0045	100	\$ 0.45	\$ 0.42	-48.28%		\$ -	100	\$ -	\$ 0.45	-100.00%		\$ -	100	\$ -	\$ -		
Rate Rider Tax Change (2015)	\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -		
LRAM VA (2016)	\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -		
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -		
		-	\$ -	\$ -				-	\$ -	\$ -				-	\$ -	\$ -		
		100	\$ -	\$ -				100	\$ -	\$ -				100	\$ -	\$ -		
		100	\$ -	\$ -				100	\$ -	\$ -				100	\$ -	\$ -		
		100	\$ -	\$ -				100	\$ -	\$ -				100	\$ -	\$ -		
		100	\$ -	\$ -				100	\$ -	\$ -				100	\$ -	\$ -		
		100	\$ -	\$ -				100	\$ -	\$ -				100	\$ -	\$ -		
		100	\$ -	\$ -				100	\$ -	\$ -				100	\$ -	\$ -		
<b>Sub-Total A (excluding pass through)</b>			\$ 24.83	\$ 3.10	14.27%				\$ 28.05	\$ 3.22	12.97%				\$ 28.69	\$ 0.64	2.28%	
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -		
		100	\$ -	\$ -				100	\$ -	\$ -				100	\$ -	\$ -		
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.0024	100	-\$ 0.24	\$ -	0.00%		-\$ 0.0024	100	-\$ 0.24	\$ -	0.00%		-\$ 0.0024	100	-\$ 0.24	\$ -	0.00%	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -		
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -			\$ -	100	\$ -	\$ -		
Low Voltage Service Charge	\$ 0.0012	100	\$ 0.12	\$ -	0.00%		\$ 0.0012	100	\$ 0.12	\$ -	0.00%		\$ 0.0012	100	\$ 0.12	\$ -	0.00%	
Line Losses on Cost of Power	\$ 0.0950	3.93	\$ 0.37	\$ -	0.00%		\$ 0.0950	3.93	\$ 0.37	\$ -	0.00%		\$ 0.0950	3.93	\$ 0.37	\$ -	0.00%	
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 25.87	\$ 3.10	13.61%				\$ 29.09	\$ 3.22	12.45%				\$ 29.73	\$ 0.64	2.20%	
RTSR - Network	\$ 0.0071	104	\$ 0.74	\$ -	0.00%		\$ 0.0071	104	\$ 0.74	\$ -	0.00%		\$ 0.0071	104	\$ 0.74	\$ -	0.00%	
RTSR - Line and Transformation Connection	\$ 0.0056	104	\$ 0.58	\$ -	0.00%		\$ 0.0056	104	\$ 0.58	\$ -	0.00%		\$ 0.0056	104	\$ 0.58	\$ -	0.00%	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 27.19	\$ 3.10	12.87%				\$ 30.41	\$ 3.22	11.84%				\$ 31.05	\$ 0.64	2.10%	
Wholesale Market Service Charge (WMSC)	\$ 0.0044	104	\$ 0.46	\$ -	0.00%		\$ 0.0044	104	\$ 0.46	\$ -	0.00%		\$ 0.0044	104	\$ 0.46	\$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	104	\$ 0.14	\$ -	0.00%		\$ 0.0013	104	\$ 0.14	\$ -	0.00%		\$ 0.0013	104	\$ 0.14	\$ -	0.00%	
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
Debt Retirement Charge (DRC)	\$ 0.0070	100	\$ 0.70	\$ -	0.00%		\$ 0.0070	100	\$ 0.70	\$ -	0.00%		\$ 0.0070	100	\$ 0.70	\$ -	0.00%	
TOU - Off Peak	\$ 0.0770	64	\$ 4.93	\$ -	0.00%		\$ 0.0770	64	\$ 4.93	\$ -	0.00%		\$ 0.0770	64	\$ 4.93	\$ -	0.00%	
TOU - Mid Peak	\$ 0.1140	18	\$ 2.05	\$ -	0.00%		\$ 0.1140	18	\$ 2.05	\$ -	0.00%		\$ 0.1140	18	\$ 2.05	\$ -	0.00%	
TOU - On Peak	\$ 0.1400	18	\$ 2.52	\$ -	0.00%		\$ 0.1400	18	\$ 2.52	\$ -	0.00%		\$ 0.1400	18	\$ 2.52	\$ -	0.00%	
Energy - RPP - Tier 1	\$ 0.0880	100	\$ 8.80	\$ -	0.00%		\$ 0.0880	100	\$ 8.80	\$ -	0.00%		\$ 0.0880	100	\$ 8.80	\$ -	0.00%	
Energy - RPP - Tier 2	\$ 0.1030	0	\$ -	\$ -			\$ 0.1030	0	\$ -	\$ -			\$ 0.1030	0	\$ -	\$ -		
<b>Total Bill on TOU (before Taxes)</b>			\$ 38.24	\$ 3.10	8.82%				\$ 41.46	\$ 3.22	8.42%				\$ 42.10	\$ 0.64	1.54%	
HST		13%	\$ 4.97	\$ 0.40	8.82%			13%	\$ 5.39	\$ 0.42	8.42%			13%	\$ 5.47	\$ 0.08	1.54%	
<b>Total Bill (including HST)</b>			\$ 43.21	\$ 3.50	8.82%				\$ 46.84	\$ 3.64	8.42%				\$ 47.57	\$ 0.72	1.54%	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			-\$ 4.32	-\$ 0.35	8.82%				-\$ 4.68	-\$ 0.36	8.33%				-\$ 4.76	-\$ 0.08	1.71%	
<b>Total Bill on TOU (including OCEB)</b>			\$ 38.89	\$ 3.15	8.82%				\$ 42.16	\$ 3.28	8.43%				\$ 42.81	\$ 0.64	1.53%	
<b>Total Bill on RPP (before Taxes)</b>			\$ 37.54	\$ 3.10	9.00%				\$ 40.76	\$ 3.22	8.58%				\$ 41.40	\$ 0.64	1.57%	
HST		13%	\$ 4.88	\$ 0.40	9.00%			13%	\$ 5.30	\$ 0.42	8.58%			13%	\$ 5.38	\$ 0.08	1.57%	
<b>Total Bill (including HST)</b>			\$ 42.42	\$ 3.50	9.00%				\$ 46.05	\$ 3.64	8.58%				\$ 46.78	\$ 0.72	1.57%	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			-\$ 4.24	-\$ 0.35	9.00%				-\$ 4.61	-\$ 0.37	8.73%				-\$ 4.68	-\$ 0.07	1.52%	
<b>Total Bill on RPP (including OCEB)</b>			\$ 38.18	\$ 3.15	9.00%				\$ 41.44	\$ 3.27	8.56%				\$ 42.10	\$ 0.65	1.58%	

Loss Factor (%) 3.93%

3.93%

3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%	
Distribution Volumetric Rate	\$ 0.0045	100	\$ 0.45	\$ 0.42	-48.28%		\$ -	100	\$ -	\$ 0.45	-100.00%		\$ -	100	\$ -	\$ -		
<b>"Regular" Distribution Only</b>			\$ 23.75	\$ 3.10	15.01%				\$ 26.97	\$ 3.22	13.56%				\$ 27.61	\$ 0.64	2.37%	

# Appendix 2-W Bill Impacts

Customer Class: Residential

Residential

TOU / non-TOU: TOU

Consumption 204 kWh May 1 - October November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%	\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 2.6300	1	\$ 2.63	\$ -	1	\$ -	\$ -	-100.00%	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.25	1	\$ 0.25	\$ 0.25		\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ 1.08	1	\$ 1.08	\$ 1.08		\$ 1.08	1	\$ 1.08	\$ -	0.00%
			1	\$ -		1	\$ -	\$ -			1	\$ -	\$ -	
			1	\$ -		1	\$ -	\$ -			1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0154	204	\$ 3.14	\$ 0.0126	204	\$ 2.57	\$ -	-18.18%	\$ 0.0087	204	\$ 1.77	\$ -	-30.95%
Rate Rider Tax Change (2015)	per kWh	\$ 0.0001	204	\$ 0.02	\$ -	204	\$ -	\$ 0.02	-100.00%	\$ -	204	\$ -	\$ -	
LRAM VA (2016)	per kWh	\$ -	204	\$ -	\$ 0.0003	204	\$ 0.06	\$ 0.06		\$ -	204	\$ -	\$ -	-100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	204	\$ -	\$ 0.0004	204	\$ 0.08	\$ 0.08		\$ -	204	\$ -	\$ -	-100.00%
	per kWh	\$ -	-	\$ -		-	\$ -	\$ -			-	\$ -	\$ -	
		\$ -	204	\$ -		204	\$ -	\$ -			204	\$ -	\$ -	
			204	\$ -		204	\$ -	\$ -			204	\$ -	\$ -	
			204	\$ -		204	\$ -	\$ -			204	\$ -	\$ -	
			204	\$ -		204	\$ -	\$ -			204	\$ -	\$ -	
			204	\$ -		204	\$ -	\$ -			204	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>				\$ 18.31			\$ 20.44	\$ 2.13	11.64%			\$ 22.63	\$ 2.19	10.72%
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	204	\$ -	\$ 0.0010	204	\$ 0.20	\$ 0.20		\$ -	204	\$ -	\$ -	-100.00%
			204	\$ -	\$ -	204	\$ -	\$ -			204	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	204	\$ -	\$ 0.0024	204	\$ 0.49	\$ -	0.49	\$ -	204	\$ -	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kWh	\$ 0.0156	0	\$ -	\$ -	204	\$ -	\$ -		\$ -	204	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kWh	\$ -	204	\$ -	\$ 0.0137	0	\$ -	\$ -		\$ -	204	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0007	204	\$ 0.14	\$ 0.0012	204	\$ 0.24	\$ 0.10	71.43%	\$ 0.0012	204	\$ 0.24	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	7.0176	\$ 0.67	\$ 0.0950	8.0172	\$ 0.76	\$ 0.09	14.24%	\$ 0.0950	8.0172	\$ 0.76	\$ -	0.00%
Smart Meter Entity Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 19.91			\$ 21.95	\$ 2.04	10.26%			\$ 23.94	\$ 1.99	9.05%
RTSR - Network	per kWh	\$ 0.0067	211	\$ 1.41	\$ 0.0071	212	\$ 1.51	\$ 0.09	6.47%	\$ 0.0071	212	\$ 1.51	\$ -	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0051	211	\$ 1.08	\$ 0.0056	212	\$ 1.19	\$ 0.11	10.32%	\$ 0.0056	212	\$ 1.19	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 22.40			\$ 24.65	\$ 2.25	10.03%			\$ 26.63	\$ 1.99	8.06%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	211	\$ 0.93	\$ 0.0044	212	\$ 0.93	\$ 0.00	0.47%	\$ 0.0044	212	\$ 0.93	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	211	\$ 0.27	\$ 0.0013	212	\$ 0.28	\$ 0.00	0.47%	\$ 0.0013	212	\$ 0.28	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	204	\$ 1.43	\$ 0.0070	204	\$ 1.43	\$ -	0.00%	\$ 0.0070	204	\$ 1.43	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	131	\$ 10.05	\$ 0.0770	131	\$ 10.05	\$ -	0.00%	\$ 0.0770	131	\$ 10.05	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	37	\$ 4.19	\$ 0.1140	37	\$ 4.19	\$ -	0.00%	\$ 0.1140	37	\$ 4.19	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	37	\$ 5.14	\$ 0.1400	37	\$ 5.14	\$ -	0.00%	\$ 0.1400	37	\$ 5.14	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$ 44.66			\$ 46.91	\$ 2.25	5.04%			\$ 48.90	\$ 1.99	4.24%
HST		13%		\$ 5.81	13%		\$ 6.10	\$ 0.29	5.04%	13%		\$ 6.36	\$ 0.26	4.24%
<b>Total Bill (including HST)</b>				\$ 50.47			\$ 53.01	\$ 2.54	5.04%			\$ 55.26	\$ 2.25	4.24%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				\$ -			\$ -	\$ -	4.95%			\$ -	\$ -	4.34%
<b>Total Bill on TOU (including OCEB)</b>				\$ 45.42			\$ 47.71	\$ 2.29	5.05%			\$ 49.73	\$ 2.02	4.23%
<b>Total Bill on RPP (before Taxes)</b>				\$ 43.23			\$ 45.49	\$ 2.25	5.21%			\$ 47.47	\$ 1.99	4.37%
HST		13%		\$ 5.62	13%		\$ 5.91	\$ 0.29	5.21%	13%		\$ 6.17	\$ 0.26	4.37%
<b>Total Bill (including HST)</b>				\$ 48.85			\$ 51.40	\$ 2.54	5.21%			\$ 53.64	\$ 2.25	4.37%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				\$ -			\$ -	\$ -	5.11%			\$ -	\$ -	4.28%
<b>Total Bill on RPP (including OCEB)</b>				\$ 43.96			\$ 46.26	\$ 2.29	5.22%			\$ 48.28	\$ 2.03	4.38%

Loss Factor (%)

3.44%

3.93%

3.93%

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%	\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
Distribution Volumetric Rate	per kWh	\$ 0.0154	204	\$ 3.14	\$ 0.0126	204	\$ 2.57	\$ -	-18.18%	\$ 0.0087	204	\$ 1.77	\$ -	-30.95%
<b>"Regular" Distribution Only</b>				\$ 15.70			\$ 18.97	\$ 3.27	20.82%			\$ 21.55	\$ 2.58	13.62%

Customer Class:

Residential

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%	
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Recovery of Stranded Meters	\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%	
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
Distribution Volumetric Rate	\$ 0.0045	204	\$ 0.92	\$ 0.86	-48.28%		\$ -	204	\$ -	\$ 0.92	-100.00%		\$ -	204	\$ -	\$ -		
Rate Rider Tax Change (2015)	\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -		
LRAM VA (2016)	\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -		
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -		
		-	\$ -	\$ -				-	\$ -	\$ -				-	\$ -	\$ -		
		204	\$ -	\$ -				204	\$ -	\$ -				204	\$ -	\$ -		
		204	\$ -	\$ -				204	\$ -	\$ -				204	\$ -	\$ -		
		204	\$ -	\$ -				204	\$ -	\$ -				204	\$ -	\$ -		
		204	\$ -	\$ -				204	\$ -	\$ -				204	\$ -	\$ -		
<b>Sub-Total A (excluding pass through)</b>			\$ 25.30	\$ 2.66	11.77%				\$ 28.05	\$ 2.75	10.88%				\$ 28.69	\$ 0.64	2.28%	
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -		
		204	\$ -	\$ -				204	\$ -	\$ -				204	\$ -	\$ -		
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.0024	204	-\$ 0.49	\$ -	0.00%		-\$ 0.0024	204	-\$ 0.49	\$ -	0.00%		-\$ 0.0024	204	-\$ 0.49	\$ -	0.00%	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -		
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -			\$ -	204	\$ -	\$ -		
Low Voltage Service Charge	\$ 0.0012	204	\$ 0.24	\$ -	0.00%		\$ 0.0012	204	\$ 0.24	\$ -	0.00%		\$ 0.0012	204	\$ 0.24	\$ -	0.00%	
Line Losses on Cost of Power	\$ 0.0950	8.0172	\$ 0.76	\$ -	0.00%		\$ 0.0950	8.0172	\$ 0.76	\$ -	0.00%		\$ 0.0950	8.0172	\$ 0.76	\$ -	0.00%	
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 26.60	\$ 2.66	11.12%				\$ 29.36	\$ 2.75	10.34%				\$ 30.00	\$ 0.64	2.18%	
RTSR - Network	\$ 0.0071	212	\$ 1.51	\$ -	0.00%		\$ 0.0071	212	\$ 1.51	\$ -	0.00%		\$ 0.0071	212	\$ 1.51	\$ -	0.00%	
RTSR - Line and Transformation Connection	\$ 0.0056	212	\$ 1.19	\$ -	0.00%		\$ 0.0056	212	\$ 1.19	\$ -	0.00%		\$ 0.0056	212	\$ 1.19	\$ -	0.00%	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 29.30	\$ 2.66	10.00%				\$ 32.05	\$ 2.75	9.39%				\$ 32.69	\$ 0.64	2.00%	
Wholesale Market Service Charge (WMSC)	\$ 0.0044	212	\$ 0.93	\$ -	0.00%		\$ 0.0044	212	\$ 0.93	\$ -	0.00%		\$ 0.0044	212	\$ 0.93	\$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	212	\$ 0.28	\$ -	0.00%		\$ 0.0013	212	\$ 0.28	\$ -	0.00%		\$ 0.0013	212	\$ 0.28	\$ -	0.00%	
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
Debt Retirement Charge (DRC)	\$ 0.0070	204	\$ 1.43	\$ -	0.00%		\$ 0.0070	204	\$ 1.43	\$ -	0.00%		\$ 0.0070	204	\$ 1.43	\$ -	0.00%	
TOU - Off Peak	\$ 0.0770	131	\$ 10.05	\$ -	0.00%		\$ 0.0770	131	\$ 10.05	\$ -	0.00%		\$ 0.0770	131	\$ 10.05	\$ -	0.00%	
TOU - Mid Peak	\$ 0.1140	37	\$ 4.19	\$ -	0.00%		\$ 0.1140	37	\$ 4.19	\$ -	0.00%		\$ 0.1140	37	\$ 4.19	\$ -	0.00%	
TOU - On Peak	\$ 0.1400	37	\$ 5.14	\$ -	0.00%		\$ 0.1400	37	\$ 5.14	\$ -	0.00%		\$ 0.1400	37	\$ 5.14	\$ -	0.00%	
<b>Total Bill on TOU (before Taxes)</b>			\$ 51.56	\$ 2.66	5.45%				\$ 54.32	\$ 2.75	5.34%				\$ 54.96	\$ 0.64	1.18%	
HST	13%		\$ 6.70	\$ 0.35	5.45%		13%		\$ 7.06	\$ 0.36	5.34%		13%		\$ 7.14	\$ 0.08	1.18%	
<b>Total Bill (including HST)</b>			\$ 58.27	\$ 3.01	5.45%				\$ 61.38	\$ 3.11	5.34%				\$ 62.10	\$ 0.72	1.18%	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			-\$ 5.83	-\$ 0.30	5.42%				-\$ 6.14	-\$ 0.31	5.32%				-\$ 6.21	-\$ 0.07	1.14%	
<b>Total Bill on TOU (including OCEB)</b>			\$ 52.44	\$ 2.71	5.45%				\$ 55.24	\$ 2.80	5.34%				\$ 55.89	\$ 0.65	1.18%	
<b>Total Bill on RPP (before Taxes)</b>			\$ 50.14	\$ 2.66	5.61%				\$ 52.89	\$ 2.75	5.49%				\$ 53.53	\$ 0.64	1.21%	
HST	13%		\$ 6.52	\$ 0.35	5.61%		13%		\$ 6.88	\$ 0.36	5.49%		13%		\$ 6.96	\$ 0.08	1.21%	
<b>Total Bill (including HST)</b>			\$ 56.65	\$ 3.01	5.61%				\$ 59.76	\$ 3.11	5.49%				\$ 60.49	\$ 0.72	1.21%	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			-\$ 5.67	-\$ 0.31	5.78%				-\$ 5.98	-\$ 0.31	5.47%				-\$ 6.05	-\$ 0.07	1.17%	
<b>Total Bill on RPP (including OCEB)</b>			\$ 50.98	\$ 2.70	5.59%				\$ 53.78	\$ 2.80	5.49%				\$ 54.44	\$ 0.65	1.21%	

Loss Factor (%)

3.93%

3.93%

3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%	
Distribution Volumetric Rate	\$ 0.0045	204	\$ 0.92	\$ 0.86	-48.28%		\$ -	204	\$ -	\$ 0.92	-100.00%		\$ -	204	\$ -	\$ -		
<b>"Regular" Distribution Only</b>			\$ 24.22	\$ 2.66	12.36%				\$ 26.97	\$ 2.75	11.36%				\$ 27.61	\$ 0.64	2.37%	

# Appendix 2-W Bill Impacts

Customer Class: **Residential**

**Residential**

TOU / non-TOU: **TOU**

Consumption **250** kWh ☒ May 1 - October ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%	\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 2.6300	1	\$ 2.63	\$ -	1	\$ -	\$ -	-100.00%	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.25	1	\$ 0.25	\$ 0.25		\$ -	1	\$ -	\$ -0.25	-100.00%
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ 1.08	1	\$ 1.08	\$ 1.08		\$ 1.08	1	\$ 1.08	\$ -	0.00%
			1	\$ -		1	\$ -	\$ -			1	\$ -	\$ -	
			1	\$ -		1	\$ -	\$ -			1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0154	250	\$ 3.85	\$ 0.0126	250	\$ 3.15	\$ -0.70	-18.18%	\$ 0.0087	250	\$ 2.18	\$ -0.98	-30.95%
Rate Rider Tax Change (2015)	per kWh	\$ 0.0001	250	\$ 0.03	\$ -	250	\$ -	\$ 0.03	-100.00%	\$ -	250	\$ -	\$ -	
LRAM VA (2016)	per kWh	\$ -	250	\$ -	\$ 0.0003	250	\$ 0.08	\$ 0.08		\$ -	250	\$ -	\$ -0.08	-100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	250	\$ -	\$ 0.0004	250	\$ 0.10	\$ 0.10		\$ -	250	\$ -	\$ -0.10	-100.00%
	per kWh	\$ -	-	\$ -		-	\$ -	\$ -			-	\$ -	\$ -	
		\$ -	250	\$ -		250	\$ -	\$ -			250	\$ -	\$ -	
			250	\$ -		250	\$ -	\$ -			250	\$ -	\$ -	
			250	\$ -		250	\$ -	\$ -			250	\$ -	\$ -	
			250	\$ -		250	\$ -	\$ -			250	\$ -	\$ -	
			250	\$ -		250	\$ -	\$ -			250	\$ -	\$ -	
			250	\$ -		250	\$ -	\$ -			250	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>				\$ 19.02			\$ 21.06	\$ 2.04	10.73%			\$ 23.04	\$ 1.98	9.40%
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	250	\$ -	\$ 0.0010	250	\$ 0.25	\$ 0.25		\$ -	250	\$ -	\$ -0.25	-100.00%
			250	\$ -		250	\$ -	\$ -			250	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	250	\$ -	\$ 0.0024	250	\$ 0.60	\$ 0.60		\$ -0.0024	250	\$ 0.60	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kWh	\$ 0.0156	0	\$ -	\$ -	250	\$ -	\$ -		\$ -	250	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kWh	\$ -	250	\$ -	\$ 0.0137	0	\$ -	\$ -		\$ -	250	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0007	250	\$ 0.18	\$ 0.0012	250	\$ 0.30	\$ 0.13	71.43%	\$ 0.0012	250	\$ 0.30	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	8.6	\$ 0.82	\$ 0.0950	9.825	\$ 0.93	\$ 0.12	14.24%	\$ 0.0950	9.825	\$ 0.93	\$ -	0.00%
Smart Meter Entity Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 20.80			\$ 22.73	\$ 1.93	9.29%			\$ 24.46	\$ 1.73	7.61%
RTSR - Network	per kWh	\$ 0.0067	259	\$ 1.73	\$ 0.0071	260	\$ 1.84	\$ 0.11	6.47%	\$ 0.0071	260	\$ 1.84	\$ -	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0051	259	\$ 1.32	\$ 0.0056	260	\$ 1.46	\$ 0.14	10.32%	\$ 0.0056	260	\$ 1.46	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 23.85			\$ 26.03	\$ 2.18	9.14%			\$ 27.76	\$ 1.73	6.65%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	259	\$ 1.14	\$ 0.0044	260	\$ 1.14	\$ 0.01	0.47%	\$ 0.0044	260	\$ 1.14	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	259	\$ 0.34	\$ 0.0013	260	\$ 0.34	\$ 0.00	0.47%	\$ 0.0013	260	\$ 0.34	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	250	\$ 1.75	\$ 0.0070	250	\$ 1.75	\$ -	0.00%	\$ 0.0070	250	\$ 1.75	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	160	\$ 12.32	\$ 0.0770	160	\$ 12.32	\$ -	0.00%	\$ 0.0770	160	\$ 12.32	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	45	\$ 5.13	\$ 0.1140	45	\$ 5.13	\$ -	0.00%	\$ 0.1140	45	\$ 5.13	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	45	\$ 6.30	\$ 0.1400	45	\$ 6.30	\$ -	0.00%	\$ 0.1400	45	\$ 6.30	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$ 51.07			\$ 53.26	\$ 2.19	4.28%			\$ 54.99	\$ 1.73	3.25%
HST		13%		\$ 6.64	13%		\$ 6.92	\$ 0.28	4.28%	13%		\$ 7.15	\$ 0.22	3.25%
<b>Total Bill (including HST)</b>				\$ 57.71			\$ 60.18	\$ 2.47	4.28%			\$ 62.14	\$ 1.95	3.25%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				\$ -5.77			\$ -6.02	\$ -0.25	4.33%			\$ -6.21	\$ -0.19	3.16%
<b>Total Bill on TOU (including OCEB)</b>				\$ 51.94			\$ 54.16	\$ 2.22	4.28%			\$ 55.93	\$ 1.76	3.26%
<b>Total Bill on RPP (before Taxes)</b>				\$ 49.32			\$ 51.51	\$ 2.19	4.43%			\$ 53.24	\$ 1.73	3.36%
HST		13%		\$ 6.41	13%		\$ 6.70	\$ 0.28	4.43%	13%		\$ 6.92	\$ 0.22	3.36%
<b>Total Bill (including HST)</b>				\$ 55.73			\$ 58.21	\$ 2.47	4.43%			\$ 60.16	\$ 1.95	3.36%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				\$ -5.77			\$ -5.82	\$ -0.25	4.49%			\$ -6.02	\$ -0.20	3.44%
<b>Total Bill on RPP (including OCEB)</b>				\$ 50.16			\$ 52.39	\$ 2.22	4.43%			\$ 54.14	\$ 1.75	3.35%

Loss Factor (%)

3.44%

3.93%

3.93%

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%	\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
Distribution Volumetric Rate	per kWh	\$ 0.0154	250	\$ 3.85	\$ 0.0126	250	\$ 3.15	\$ -0.70	-18.18%	\$ 0.0087	250	\$ 2.18	\$ -0.98	-30.95%
<b>"Regular" Distribution Only</b>				\$ 16.41			\$ 19.55	\$ 3.14	19.13%			\$ 21.96	\$ 2.41	12.30%

Customer Class:

Residential

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%	
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Recovery of Stranded Meters	\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%	
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
Distribution Volumetric Rate	\$ 0.0045	250	\$ 1.13	\$ 1.05	-48.28%		\$ -	250	\$ -	\$ -1.13	-100.00%		\$ -	250	\$ -	\$ -		
Rate Rider Tax Change (2015)	\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -		
LRAM VA (2016)	\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -		
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -		
		-	\$ -	\$ -				-	\$ -	\$ -				-	\$ -	\$ -		
		250	\$ -	\$ -				250	\$ -	\$ -				250	\$ -	\$ -		
		250	\$ -	\$ -				250	\$ -	\$ -				250	\$ -	\$ -		
		250	\$ -	\$ -				250	\$ -	\$ -				250	\$ -	\$ -		
		250	\$ -	\$ -				250	\$ -	\$ -				250	\$ -	\$ -		
		250	\$ -	\$ -				250	\$ -	\$ -				250	\$ -	\$ -		
<b>Sub-Total A (excluding pass through)</b>			\$ 25.51	\$ 2.47	10.72%				\$ 28.05	\$ 2.54	9.98%				\$ 28.69	\$ 0.64	2.28%	
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -		
		250	\$ -	\$ -				250	\$ -	\$ -				250	\$ -	\$ -		
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.0024	250	-\$ 0.60	\$ -	0.00%		-\$ 0.0024	250	-\$ 0.60	\$ -	0.00%		-\$ 0.0024	250	-\$ 0.60	\$ -	0.00%	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -		
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -			\$ -	250	\$ -	\$ -		
Low Voltage Service Charge	\$ 0.0012	250	\$ 0.30	\$ -	0.00%		\$ 0.0012	250	\$ 0.30	\$ -	0.00%		\$ 0.0012	250	\$ 0.30	\$ -	0.00%	
Line Losses on Cost of Power	\$ 0.0950	9.825	\$ 0.93	\$ -	0.00%		\$ 0.0950	9.825	\$ 0.93	\$ -	0.00%		\$ 0.0950	9.825	\$ 0.93	\$ -	0.00%	
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 26.93	\$ 2.47	10.10%				\$ 29.47	\$ 2.54	9.45%				\$ 30.11	\$ 0.64	2.17%	
RTSR - Network	\$ 0.0071	260	\$ 1.84	\$ -	0.00%		\$ 0.0071	260	\$ 1.84	\$ -	0.00%		\$ 0.0071	260	\$ 1.84	\$ -	0.00%	
RTSR - Line and Transformation Connection	\$ 0.0056	260	\$ 1.46	\$ -	0.00%		\$ 0.0056	260	\$ 1.46	\$ -	0.00%		\$ 0.0056	260	\$ 1.46	\$ -	0.00%	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 30.23	\$ 2.47	8.90%				\$ 32.77	\$ 2.54	8.42%				\$ 33.41	\$ 0.64	1.95%	
Wholesale Market Service Charge (WMSC)	\$ 0.0044	260	\$ 1.14	\$ -	0.00%		\$ 0.0044	260	\$ 1.14	\$ -	0.00%		\$ 0.0044	260	\$ 1.14	\$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	260	\$ 0.34	\$ -	0.00%		\$ 0.0013	260	\$ 0.34	\$ -	0.00%		\$ 0.0013	260	\$ 0.34	\$ -	0.00%	
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
Debt Retirement Charge (DRC)	\$ 0.0070	250	\$ 1.75	\$ -	0.00%		\$ 0.0070	250	\$ 1.75	\$ -	0.00%		\$ 0.0070	250	\$ 1.75	\$ -	0.00%	
TOU - Off Peak	\$ 0.0770	160	\$ 12.32	\$ -	0.00%		\$ 0.0770	160	\$ 12.32	\$ -	0.00%		\$ 0.0770	160	\$ 12.32	\$ -	0.00%	
TOU - Mid Peak	\$ 0.1140	45	\$ 5.13	\$ -	0.00%		\$ 0.1140	45	\$ 5.13	\$ -	0.00%		\$ 0.1140	45	\$ 5.13	\$ -	0.00%	
TOU - On Peak	\$ 0.1400	45	\$ 6.30	\$ -	0.00%		\$ 0.1400	45	\$ 6.30	\$ -	0.00%		\$ 0.1400	45	\$ 6.30	\$ -	0.00%	
<b>Total Bill on TOU (before Taxes)</b>			\$ 57.46	\$ 2.47	4.49%				\$ 60.00	\$ 2.54	4.43%				\$ 60.64	\$ 0.64	1.07%	
HST	13%		\$ 7.47	\$ 0.32	4.49%		13%		\$ 7.80	\$ 0.33	4.43%		13%		\$ 7.88	\$ 0.08	1.07%	
<b>Total Bill (including HST)</b>			\$ 64.93	\$ 2.79	4.49%				\$ 67.80	\$ 2.88	4.43%				\$ 68.53	\$ 0.72	1.07%	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			-\$ 6.49	-\$ 0.28	4.51%				-\$ 6.78	-\$ 0.29	4.47%				-\$ 6.85	-\$ 0.07	1.03%	
<b>Total Bill on TOU (including OCEB)</b>			\$ 58.44	\$ 2.51	4.49%				\$ 61.02	\$ 2.59	4.42%				\$ 61.68	\$ 0.65	1.07%	
<b>Total Bill on RPP (before Taxes)</b>			\$ 55.71	\$ 2.47	4.64%				\$ 58.25	\$ 2.54	4.57%				\$ 58.89	\$ 0.64	1.10%	
HST	13%		\$ 7.24	\$ 0.32	4.64%		13%		\$ 7.57	\$ 0.33	4.57%		13%		\$ 7.66	\$ 0.08	1.10%	
<b>Total Bill (including HST)</b>			\$ 62.95	\$ 2.79	4.64%				\$ 65.83	\$ 2.88	4.57%				\$ 66.55	\$ 0.72	1.10%	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			-\$ 6.30	-\$ 0.28	4.65%				-\$ 6.58	-\$ 0.28	4.44%				-\$ 6.66	-\$ 0.08	1.22%	
<b>Total Bill on RPP (including OCEB)</b>			\$ 56.65	\$ 2.51	4.64%				\$ 59.25	\$ 2.60	4.58%				\$ 59.89	\$ 0.64	1.09%	

Loss Factor (%)

3.93%

3.93%

3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%	
Distribution Volumetric Rate	\$ 0.0045	250	\$ 1.13	\$ 1.05	-48.28%		\$ -	250	\$ -	\$ -1.13	-100.00%		\$ -	250	\$ -	\$ -		
<b>"Regular" Distribution Only</b>			\$ 24.43	\$ 2.47	11.25%				\$ 26.97	\$ 2.55	10.42%				\$ 27.61	\$ 0.64	2.37%	

## Appendix 2-W Bill Impacts

Customer Class: Residential

TOU / non-TOU: **TOU**

**Consumption**  kWh    ☒ May 1 - October    ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

		2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
	Charge Unit	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 2.6300	1	\$ 2.63	\$ -	1	\$ -	-\$ 2.63	-100.00%
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.25	1	\$ 0.25	\$ 0.25	
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ 1.08	1	\$ 1.08	\$ 1.08	
			1	\$ -		1	\$ -	\$ -	
			1	\$ -		1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0154	500	\$ 7.70	\$ 0.0126	500	\$ 6.30	-\$ 1.40	-18.18%
Rate Rider Tax Change (2015)	per kWh	-\$ 0.0001	500	-\$ 0.05	\$ -	500	\$ -	\$ 0.05	-100.00%
LRAM VA (2016)	per kWh	\$ -	500	\$ -	\$ 0.0003	500	\$ 0.15	\$ 0.15	
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	500	\$ -	\$ 0.0004	500	\$ 0.20	\$ 0.20	
	per kWh	\$ -	-	\$ -		-	\$ -	\$ -	
		\$ -	500	\$ -		500	\$ -	\$ -	
			500	\$ -		500	\$ -	\$ -	
			500	\$ -		500	\$ -	\$ -	
			500	\$ -		500	\$ -	\$ -	
			500	\$ -		500	\$ -	\$ -	
Sub-Total A (excluding pass through)				\$ 22.84			\$ 24.38	\$ 1.54	6.74%
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	500	\$ -	\$ 0.0010	500	\$ 0.50	\$ 0.50	
			500	\$ -	\$ -	500	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	500	\$ -	-\$ 0.0024	500	-\$ 1.20	-\$ 1.20	
Disposition of Global Adjustment (2015)	per kWh	\$ 0.0156	0	\$ -	\$ -	500	\$ -	\$ -	
Applicable to Non-RPP Customers	per kWh	\$ -	500	\$ -	\$ 0.0137	0	\$ -	\$ -	
Disposition of Global Adjustment (2016)	per kWh	\$ -	500	\$ -	\$ 0.0012	500	\$ 0.60	\$ 0.25	71.43%
Applicable to Non-RPP Customers	per kWh	\$ 0.0007	500	\$ 0.35	\$ 0.0950	19.65	\$ 1.87	\$ 0.23	14.24%
Low Voltage Service Charge	per kWh	\$ 0.0950	17.2	\$ 1.63	\$ 0.0950	19.65	\$ 1.87	\$ -	
Line Losses on Cost of Power	per kWh	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	
Smart Meter Entity Charge	Monthly								
Sub-Total B - Distribution (includes Sub-Total A)				\$ 25.61			\$ 26.94	\$ 1.32	5.16%
RTSR - Network	per kWh	\$ 0.0067	517	\$ 3.47	\$ 0.0071	520	\$ 3.69	\$ 0.22	6.47%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0051	517	\$ 2.64	\$ 0.0056	520	\$ 2.91	\$ 0.27	10.32%
Sub-Total C - Delivery (including Sub-Total B)				\$ 31.72			\$ 33.54	\$ 1.82	5.74%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	517	\$ 2.28	\$ 0.0044	520	\$ 2.29	\$ 0.01	0.47%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	517	\$ 0.67	\$ 0.0013	520	\$ 0.68	\$ 0.00	0.47%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	500	\$ 3.50	\$ 0.0070	500	\$ 3.50	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	320	\$ 24.64	\$ 0.0770	320	\$ 24.64	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	90	\$ 10.26	\$ 0.1140	90	\$ 10.26	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	90	\$ 12.60	\$ 0.1400	90	\$ 12.60	\$ -	0.00%
Total Bill on TOU (before Taxes)				\$ 85.92			\$ 87.75	\$ 1.83	2.13%
HST		13%		\$ 11.17	13%		\$ 11.41	\$ 0.24	2.13%
Total Bill (including HST)				\$ 97.08			\$ 99.16	\$ 2.07	2.13%
Ontario Clean Energy Benefit <sup>1</sup>				-\$ 9.71			-\$ 9.92	-\$ 0.21	2.16%
Total Bill on TOU (including OCEB)				\$ 87.37			\$ 89.24	\$ 1.86	2.13%
Total Bill on RPP (before Taxes)				\$ 82.42			\$ 84.25	\$ 1.83	2.22%
HST		13%		\$ 10.71	13%		\$ 10.95	\$ 0.24	2.22%
Total Bill (including HST)				\$ 93.13			\$ 95.20	\$ 2.07	2.22%
Ontario Clean Energy Benefit <sup>1</sup>				-\$ 9.31			-\$ 9.52	-\$ 0.21	2.26%
Total Bill on RPP (including OCEB)				\$ 83.82			\$ 85.68	\$ 1.86	2.22%

Loss Factor (%)	3.44%
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3.93%

3.93%

### Distribution Excluding Rate Riders

		2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Charge Unit Monthly per kWh	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%	\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
Distribution Volumetric Rate		\$ 0.0154	500	\$ 7.70	\$ 0.0126	500	\$ 6.30	-\$ 1.40	-18.18%	\$ 0.0087	500	\$ 4.35	\$ 1.95	-30.95%
<b>"Regular" Distribution Only</b>					\$ 20.26		\$ 22.70	<b>\$ 2.44</b>	<b>12.04%</b>			\$ 24.13	<b>\$ 1.43</b>	<b>6.30%</b>

Customer Class:

Residential

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%	
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Recovery of Stranded Meters	\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%	
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
Distribution Volumetric Rate	\$ 0.0045	500	\$ 2.25	\$ 2.10	-48.28%		\$ -	500	\$ -	\$ 2.25	-100.00%		\$ -	500	\$ -	\$ -		
Rate Rider Tax Change (2015)	\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -		
LRAM VA (2016)	\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -		
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -		
		-	\$ -	\$ -				-	\$ -	\$ -				-	\$ -	\$ -		
		500	\$ -	\$ -				500	\$ -	\$ -				500	\$ -	\$ -		
		500	\$ -	\$ -				500	\$ -	\$ -				500	\$ -	\$ -		
		500	\$ -	\$ -				500	\$ -	\$ -				500	\$ -	\$ -		
		500	\$ -	\$ -				500	\$ -	\$ -				500	\$ -	\$ -		
		500	\$ -	\$ -				500	\$ -	\$ -				500	\$ -	\$ -		
<b>Sub-Total A (excluding pass through)</b>			\$ 26.63	\$ 1.42	5.63%				\$ 28.05	\$ 1.42	5.33%				\$ 28.69	\$ 0.64	2.28%	
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -		
		500	\$ -	\$ -				500	\$ -	\$ -				500	\$ -	\$ -		
Rate Rider CGAAP Account 1576 (2016)	\$ 0.0024	500	\$ 1.20	\$ -	0.00%		\$ 0.0024	500	\$ 1.20	\$ -	0.00%		\$ 0.0024	500	\$ 1.20	\$ -	0.00%	
Disposition of Global Adjustment (2015)	\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -		
Applicable to Non-RPP Customers																		
Disposition of Global Adjustment (2016)	\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -			\$ -	500	\$ -	\$ -		
Applicable to Non-RPP Customers																		
Low Voltage Service Charge	\$ 0.0012	500	\$ 0.60	\$ -	0.00%		\$ 0.0012	500	\$ 0.60	\$ -	0.00%		\$ 0.0012	500	\$ 0.60	\$ -	0.00%	
Line Losses on Cost of Power	\$ 0.0950	19.65	\$ 1.87	\$ -	0.00%		\$ 0.0950	19.65	\$ 1.87	\$ -	0.00%		\$ 0.0950	19.65	\$ 1.87	\$ -	0.00%	
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 28.69	\$ 1.42	5.21%				\$ 30.11	\$ 1.42	4.95%				\$ 30.75	\$ 0.64	2.13%	
RTSR - Network	\$ 0.0071	520	\$ 3.69	\$ -	0.00%		\$ 0.0071	520	\$ 3.69	\$ -	0.00%		\$ 0.0071	520	\$ 3.69	\$ -	0.00%	
RTSR - Line and Transformation Connection	\$ 0.0056	520	\$ 2.91	\$ -	0.00%		\$ 0.0056	520	\$ 2.91	\$ -	0.00%		\$ 0.0056	520	\$ 2.91	\$ -	0.00%	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 35.29	\$ 1.42	4.19%				\$ 36.71	\$ 1.42	4.02%				\$ 37.35	\$ 0.64	1.74%	
Wholesale Market Service Charge (WMSC)	\$ 0.0044	520	\$ 2.29	\$ -	0.00%		\$ 0.0044	520	\$ 2.29	\$ -	0.00%		\$ 0.0044	520	\$ 2.29	\$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	520	\$ 0.68	\$ -	0.00%		\$ 0.0013	520	\$ 0.68	\$ -	0.00%		\$ 0.0013	520	\$ 0.68	\$ -	0.00%	
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
Debt Retirement Charge (DRC)	\$ 0.0070	500	\$ 3.50	\$ -	0.00%		\$ 0.0070	500	\$ 3.50	\$ -	0.00%		\$ 0.0070	500	\$ 3.50	\$ -	0.00%	
TOU - Off Peak	\$ 0.0770	320	\$ 24.64	\$ -	0.00%		\$ 0.0770	320	\$ 24.64	\$ -	0.00%		\$ 0.0770	320	\$ 24.64	\$ -	0.00%	
TOU - Mid Peak	\$ 0.1140	90	\$ 10.26	\$ -	0.00%		\$ 0.1140	90	\$ 10.26	\$ -	0.00%		\$ 0.1140	90	\$ 10.26	\$ -	0.00%	
TOU - On Peak	\$ 0.1400	90	\$ 12.60	\$ -	0.00%		\$ 0.1400	90	\$ 12.60	\$ -	0.00%		\$ 0.1400	90	\$ 12.60	\$ -	0.00%	
<b>Total Bill on TOU (before Taxes)</b>			\$ 89.50	\$ 1.42	1.61%				\$ 90.92	\$ 1.42	1.59%				\$ 91.56	\$ 0.64	0.70%	
HST	13%		\$ 11.63	\$ 0.18	1.61%		13%		\$ 11.82	\$ 0.18	1.59%		13%		\$ 11.90	\$ 0.08	0.70%	
<b>Total Bill (including HST)</b>			\$ 101.13	\$ 1.60	1.61%				\$ 102.74	\$ 1.60	1.59%				\$ 103.46	\$ 0.72	0.70%	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			\$ 10.11	\$ 0.16	1.61%				\$ 10.27	\$ 0.16	1.58%				\$ 10.35	\$ 0.08	0.78%	
<b>Total Bill on TOU (including OCEB)</b>			\$ 91.02	\$ 1.44	1.61%				\$ 92.47	\$ 1.44	1.59%				\$ 93.11	\$ 0.64	0.70%	
<b>Total Bill on RPP (before Taxes)</b>			\$ 86.00	\$ 1.42	1.68%				\$ 87.42	\$ 1.42	1.65%				\$ 88.06	\$ 0.64	0.73%	
HST	13%		\$ 11.18	\$ 0.18	1.68%		13%		\$ 11.36	\$ 0.18	1.65%		13%		\$ 11.45	\$ 0.08	0.73%	
<b>Total Bill (including HST)</b>			\$ 97.18	\$ 1.60	1.68%				\$ 98.78	\$ 1.60	1.65%				\$ 99.51	\$ 0.72	0.73%	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			\$ 9.72	\$ 0.16	1.67%				\$ 9.88	\$ 0.16	1.65%				\$ 9.95	\$ 0.07	0.71%	
<b>Total Bill on RPP (including OCEB)</b>			\$ 87.46	\$ 1.44	1.68%				\$ 88.90	\$ 1.44	1.65%				\$ 89.56	\$ 0.65	0.73%	

Loss Factor (%)

3.93%

3.93%

3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%	
Distribution Volumetric Rate	\$ 0.0045	500	\$ 2.25	\$ 2.10	-48.28%		\$ -	500	\$ -	\$ 2.25	-100.00%		\$ -	500	\$ -	\$ -		
<b>"Regular" Distribution Only</b>			\$ 25.55	\$ 1.42	5.88%				\$ 26.97	\$ 1.42	5.56%				\$ 27.61	\$ 0.64	2.37%	

## Appendix 2-W Bill Impacts

Customer Class: Residential

TOU / non-TOU: TOU

**Consumption** 800 kWh    ☒ May 1 - October    ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

		2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	2016 TEST vs. 2015 Bridge	
	Charge Unit							\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 2.6300	1	\$ 2.63	\$ -	1	\$ -	-\$ 2.63	-100.00%
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.25	1	\$ 0.25	\$ 0.25	
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ 1.08	1	\$ 1.08	\$ 1.08	
			1	\$ -		1	\$ -	\$ -	
			1	\$ -		1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0154	800	\$ 12.32	\$ 0.0126	800	\$ 10.08	-\$ 2.24	-18.18%
Rate Rider Tax Change (2015)	per kWh	-\$ 0.0001	800	-\$ 0.08	\$ -	800	\$ -	\$ 0.08	-100.00%
LRAM VA (2016)	per kWh	\$ -	800	\$ -	\$ 0.0003	800	\$ 0.24	\$ 0.24	
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	800	\$ -	\$ 0.0004	800	\$ 0.32	\$ 0.32	
	per kWh	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	
		\$ -	800	\$ -		800	\$ -	\$ -	
			800	\$ -		800	\$ -	\$ -	
			800	\$ -		800	\$ -	\$ -	
			800	\$ -		800	\$ -	\$ -	
			800	\$ -		800	\$ -	\$ -	
Sub-Total A (excluding pass through)				\$ 27.43		\$ 28.37	\$ 0.94	3.43%	
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	800	\$ -	\$ 0.0010	800	\$ 0.80	\$ 0.80	
			800	\$ -	\$ -	800	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	800	\$ -	-\$ 0.0024	800	-\$ 1.92	-\$ 1.92	
Disposition of Global Adjustment (2015)	per kWh	\$ 0.0156	0	\$ -	\$ -	800	\$ -	\$ -	
Applicable to Non-RPP Customers	per kWh	\$ -	800	\$ -	\$ 0.0137	0	\$ -	\$ -	
Disposition of Global Adjustment (2016)	per kWh	\$ 0.0007	800	\$ 0.56	\$ 0.0012	800	\$ 0.96	\$ 0.40	71.43%
Applicable to Non-RPP Customers	per kWh	\$ 0.0950	27.52	\$ 2.61	\$ 0.0950	31.44	\$ 2.99	\$ 0.37	14.24%
Low Voltage Service Charge	per kWh	\$ 0.0950	27.52	\$ 2.61	\$ 0.0950	31.44	\$ 2.99	\$ 0.37	14.24%
Line Losses on Cost of Power	per kWh	\$ 0.0950	27.52	\$ 2.61	\$ 0.0950	31.44	\$ 2.99	\$ 0.37	14.24%
Smart Meter Entity Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)				\$ 31.39		\$ 31.99	\$ 0.59	1.89%	
RTSR - Network	per kWh	\$ 0.0067	828	\$ 5.54	\$ 0.0071	831	\$ 5.90	\$ 0.36	6.47%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0051	828	\$ 4.22	\$ 0.0056	831	\$ 4.66	\$ 0.44	10.32%
Sub-Total C - Delivery (including Sub-Total B)				\$ 41.16		\$ 42.55	\$ 1.39	3.37%	
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	828	\$ 3.64	\$ 0.0044	831	\$ 3.66	\$ 0.02	0.47%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	828	\$ 1.08	\$ 0.0013	831	\$ 1.08	\$ 0.01	0.47%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	800	\$ 5.60	\$ 0.0070	800	\$ 5.60	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	512	\$ 39.42	\$ 0.0770	512	\$ 39.42	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	144	\$ 16.42	\$ 0.1140	144	\$ 16.42	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	144	\$ 20.16	\$ 0.1400	144	\$ 20.16	\$ -	0.00%
Total Bill on TOU (before Taxes)				\$ 127.73		\$ 129.14	\$ 1.41	1.10%	
HST		13%		\$ 16.60	13%		\$ 16.79	\$ 0.18	1.10%
Total Bill (including HST)				\$ 144.33		\$ 145.92	\$ 1.59	1.10%	
Ontario Clean Energy Benefit <sup>1</sup>				-\$ 14.43		-\$ 14.59	-\$ 0.16	1.11%	
Total Bill on TOU (including OCEB)				\$ 129.90		\$ 131.33	\$ 1.43	1.10%	
Total Bill on RPP (before Taxes)				\$ 125.13		\$ 126.54	\$ 1.41	1.13%	
HST		13%		\$ 16.27	13%		\$ 16.45	\$ 0.18	1.13%
Total Bill (including HST)				\$ 141.39		\$ 142.98	\$ 1.59	1.13%	
Ontario Clean Energy Benefit <sup>1</sup>				-\$ 14.14		-\$ 14.30	-\$ 0.16	1.13%	
Total Bill on RPP (including OCEB)				\$ 127.25		\$ 128.68	\$ 1.43	1.13%	

3.93%

### Distribution Excluding Rate Riders

Distribution Excluding Rate Riders														
	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge		\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%	\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
Distribution Volumetric Rate	Monthly per kWh	\$ 0.0154	800	\$ 12.32	\$ 0.0126	800	\$ 10.08	-\$ 2.24	-18.18%	\$ 0.0087	800	\$ 6.96	\$ 3.12	-30.95%
<b>"Regular" Distribution Only</b>				\$ 24.88			\$ 26.48	<b>\$ 1.60</b>	<b>6.43%</b>			\$ 26.74	<b>\$ 0.26</b>	<b>0.98%</b>

## Residential

2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ 0.25	-100.00%
\$ 1.08	1	\$ 1.08	\$ -	0.00%
	1	\$ -	\$ -	
	1	\$ -	\$ -	
\$ 0.0087	800	\$ 6.96	\$ 3.12	-30.95%
\$ -	800	\$ -	\$ -	
\$ -	800	\$ -	\$ 0.24	-100.00%
\$ -	800	\$ -	\$ 0.32	-100.00%
	-	\$ -	\$ -	
	800	\$ -	\$ -	
	800	\$ -	\$ -	
	800	\$ -	\$ -	
	800	\$ -	\$ -	
	800	\$ -	\$ -	
		\$ 27.82	\$ 0.55	-1.94%
\$ -	800	\$ -	\$ 0.80	-100.00%
	800	\$ -	\$ -	
\$ 0.0024	800	\$ 1.92	\$ -	0.00%
\$ -	800	\$ -	\$ -	
\$ -	800	\$ -	\$ -	
\$ 0.0012	800	\$ 0.96	\$ -	0.00%
\$ 0.0950	31.44	\$ 2.99	\$ -	0.00%
\$ 0.7900	1	\$ 0.79	\$ -	0.00%
		\$ 30.64	\$ 1.35	-4.22%
\$ 0.0071	831	\$ 5.90	\$ -	0.00%
\$ 0.0056	831	\$ 4.66	\$ -	0.00%
		\$ 41.20	\$ 1.35	-3.17%
\$ 0.0044	831	\$ 3.66	\$ -	0.00%
\$ 0.0013	831	\$ 1.08	\$ -	0.00%
\$ 0.2500	1	\$ 0.25	\$ -	0.00%
\$ 0.0070	800	\$ 5.60	\$ -	0.00%
\$ 0.0770	512	\$ 39.42	\$ -	0.00%
\$ 0.1140	144	\$ 16.42	\$ -	0.00%
\$ 0.1400	144	\$ 20.16	\$ -	0.00%
13%		\$ 127.79	\$ 1.35	-1.05%
		\$ 16.61	\$ 0.18	-1.05%
		\$ 144.40	\$ 1.53	-1.05%
		\$ 14.44	\$ 0.15	-1.03%
		\$ 129.96	\$ 1.38	-1.05%
13%		\$ 125.19	\$ 1.35	-1.07%
		\$ 16.27	\$ 0.18	-1.07%
		\$ 141.46	\$ 1.53	-1.07%
		\$ 14.15	\$ 0.15	-1.05%
		\$ 127.31	\$ 1.38	-1.07%

3.93%

Customer Class:

Residential

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -	
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0045	800	\$ 3.60	\$ 3.36	-48.28%		\$ -	800	\$ -	\$ 3.60	-100.00%		\$ -	800	\$ -	\$ -	
Rate Rider Tax Change (2015)	\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -	
LRAM VA (2016)	\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -	
		-	\$ -	\$ -				-	\$ -	\$ -				-	\$ -	\$ -	
		800	\$ -	\$ -				800	\$ -	\$ -				800	\$ -	\$ -	
		800	\$ -	\$ -				800	\$ -	\$ -				800	\$ -	\$ -	
		800	\$ -	\$ -				800	\$ -	\$ -				800	\$ -	\$ -	
		800	\$ -	\$ -				800	\$ -	\$ -				800	\$ -	\$ -	
		800	\$ -	\$ -				800	\$ -	\$ -				800	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 27.98	\$ 0.16	0.58%				\$ 28.05	\$ 0.07	0.25%				\$ 28.69	\$ 0.64	2.28%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -	
		800	\$ -	\$ -				800	\$ -	\$ -				800	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.0024	800	-\$ 1.92	\$ -	0.00%		-\$ 0.0024	800	-\$ 1.92	\$ -	0.00%		-\$ 0.0024	800	-\$ 1.92	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -			\$ -	800	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0012	800	\$ 0.96	\$ -	0.00%		\$ 0.0012	800	\$ 0.96	\$ -	0.00%		\$ 0.0012	800	\$ 0.96	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	31.44	\$ 2.99	\$ -	0.00%		\$ 0.0950	31.44	\$ 2.99	\$ -	0.00%		\$ 0.0950	31.44	\$ 2.99	\$ -	0.00%
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 30.80	\$ 0.16	0.52%				\$ 30.87	\$ 0.07	0.23%				\$ 31.51	\$ 0.64	2.07%
RTSR - Network	\$ 0.0071	831	\$ 5.90	\$ -	0.00%		\$ 0.0071	831	\$ 5.90	\$ -	0.00%		\$ 0.0071	831	\$ 5.90	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 0.0056	831	\$ 4.66	\$ -	0.00%		\$ 0.0056	831	\$ 4.66	\$ -	0.00%		\$ 0.0056	831	\$ 4.66	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 41.36	\$ 0.16	0.39%				\$ 41.43	\$ 0.07	0.17%				\$ 42.07	\$ 0.64	1.54%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	831	\$ 3.66	\$ -	0.00%		\$ 0.0044	831	\$ 3.66	\$ -	0.00%		\$ 0.0044	831	\$ 3.66	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	831	\$ 1.08	\$ -	0.00%		\$ 0.0013	831	\$ 1.08	\$ -	0.00%		\$ 0.0013	831	\$ 1.08	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	800	\$ 5.60	\$ -	0.00%		\$ 0.0070	800	\$ 5.60	\$ -	0.00%		\$ 0.0070	800	\$ 5.60	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	512	\$ 39.42	\$ -	0.00%		\$ 0.0770	512	\$ 39.42	\$ -	0.00%		\$ 0.0770	512	\$ 39.42	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	144	\$ 16.42	\$ -	0.00%		\$ 0.1140	144	\$ 16.42	\$ -	0.00%		\$ 0.1140	144	\$ 16.42	\$ -	0.00%
TOU - On Peak	\$ 0.1400	144	\$ 20.16	\$ -	0.00%		\$ 0.1400	144	\$ 20.16	\$ -	0.00%		\$ 0.1400	144	\$ 20.16	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 127.95	\$ 0.16	0.13%				\$ 128.02	\$ 0.07	0.05%				\$ 128.66	\$ 0.64	0.50%
HST	13%		\$ 16.63	\$ 0.02	0.13%		13%		\$ 16.64	\$ 0.01	0.05%		13%		\$ 16.73	\$ 0.08	0.50%
<b>Total Bill (including HST)</b>			\$ 144.58	\$ 0.18	0.13%				\$ 144.66	\$ 0.08	0.05%				\$ 145.38	\$ 0.72	0.50%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			-\$ 14.46	-\$ 0.02	0.14%				-\$ 14.47	-\$ 0.01	0.07%				-\$ 14.54	-\$ 0.07	0.48%
<b>Total Bill on TOU (including OCEB)</b>			\$ 130.12	\$ 0.16	0.12%				\$ 130.19	\$ 0.07	0.05%				\$ 130.84	\$ 0.65	0.50%
<b>Total Bill on RPP (before Taxes)</b>			\$ 125.35	\$ 0.16	0.13%				\$ 125.42	\$ 0.07	0.06%				\$ 126.06	\$ 0.64	0.51%
HST	13%		\$ 16.29	\$ 0.02	0.13%		13%		\$ 16.30	\$ 0.01	0.06%		13%		\$ 16.39	\$ 0.08	0.51%
<b>Total Bill (including HST)</b>			\$ 141.64	\$ 0.18	0.13%				\$ 141.72	\$ 0.08	0.06%				\$ 142.44	\$ 0.72	0.51%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			-\$ 14.16	-\$ 0.01	0.07%				-\$ 14.17	-\$ 0.01	0.07%				-\$ 14.24	-\$ 0.07	0.49%
<b>Total Bill on RPP (including OCEB)</b>			\$ 127.48	\$ 0.17	0.13%				\$ 127.55	\$ 0.07	0.05%				\$ 128.20	\$ 0.65	0.51%

Loss Factor (%)

3.93%

3.93%

3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%
Distribution Volumetric Rate	\$ 0.0045	800	\$ 3.60	-\$ 3.36	-48.28%		\$ -	800	\$ -	-\$ 3.60	-100.00%		\$ -	800	\$ -	\$ -	
<b>"Regular" Distribution Only</b>			\$ 26.90	\$ 0.16	0.60%				\$ 26.97	\$ 0.07	0.26%				\$ 27.61	\$ 0.64	2.37%

## Appendix 2-W Bill Impacts

Customer Class: Residential

TOU / non-TOU: TOU

**Consumption** 1,000 kWh    ☒ May 1 - October    ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

[illegible]

Loss Factor (%)	3.44%
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3.93%

3.93%

Distribution Excluding Rate Riders		2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Charge Unit Monthly per kWh	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%	\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
Distribution Volumetric Rate		\$ 0.0154	1000	\$ 15.40	\$ 0.0126	1000	\$ 12.60	-\$ 2.80	-18.18%	\$ 0.0087	1000	\$ 8.70	\$ -3.90	-30.95%
<b>"Regular" Distribution Only</b>				\$ 27.96			\$ 29.00	<b>\$ 1.04</b>	<b>3.72%</b>			\$ 28.48	<b>-\$ 0.52</b>	<b>-1.79%</b>

Customer Class:

Residential

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -	
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0045	1000	\$ 4.50	\$ 4.20	-48.28%		\$ -	1000	\$ -	\$ 4.50	-100.00%		\$ -	1000	\$ -	\$ -	
Rate Rider Tax Change (2015)	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
LRAM VA (2016)	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
		-	\$ -	\$ -				-	\$ -	\$ -				-	\$ -	\$ -	
		1000	\$ -	\$ -				1000	\$ -	\$ -				1000	\$ -	\$ -	
		1000	\$ -	\$ -				1000	\$ -	\$ -				1000	\$ -	\$ -	
		1000	\$ -	\$ -				1000	\$ -	\$ -				1000	\$ -	\$ -	
		1000	\$ -	\$ -				1000	\$ -	\$ -				1000	\$ -	\$ -	
		1000	\$ -	\$ -				1000	\$ -	\$ -				1000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 28.88	<b>-\$ 0.68</b>	<b>-2.30%</b>				\$ 28.05	<b>-\$ 0.83</b>	<b>-2.87%</b>				\$ 28.69	<b>\$ 0.64</b>	<b>2.28%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
		1000	\$ -	\$ -				1000	\$ -	\$ -				1000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.0024	1000	-\$ 2.40	\$ -	0.00%		-\$ 0.0024	1000	-\$ 2.40	\$ -	0.00%		-\$ 0.0024	1000	-\$ 2.40	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0012	1000	\$ 1.20	\$ -	0.00%		\$ 0.0012	1000	\$ 1.20	\$ -	0.00%		\$ 0.0012	1000	\$ 1.20	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	39.3	\$ 3.73	\$ -	0.00%		\$ 0.0950	39.3	\$ 3.73	\$ -	0.00%		\$ 0.0950	39.3	\$ 3.73	\$ -	0.00%
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 32.20	<b>-\$ 0.68</b>	<b>-2.07%</b>				\$ 31.37	<b>-\$ 0.83</b>	<b>-2.58%</b>				\$ 32.01	<b>\$ 0.64</b>	<b>2.04%</b>
RTSR - Network	\$ 0.0071	1039	\$ 7.38	\$ -	0.00%		\$ 0.0071	1039	\$ 7.38	\$ -	0.00%		\$ 0.0071	1039	\$ 7.38	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 0.0056	1039	\$ 5.82	\$ -	0.00%		\$ 0.0056	1039	\$ 5.82	\$ -	0.00%		\$ 0.0056	1039	\$ 5.82	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 45.40	<b>-\$ 0.68</b>	<b>-1.48%</b>				\$ 44.57	<b>-\$ 0.83</b>	<b>-1.83%</b>				\$ 45.21	<b>\$ 0.64</b>	<b>1.44%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	1039	\$ 4.57	\$ -	0.00%		\$ 0.0044	1039	\$ 4.57	\$ -	0.00%		\$ 0.0044	1039	\$ 4.57	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	1039	\$ 1.35	\$ -	0.00%		\$ 0.0013	1039	\$ 1.35	\$ -	0.00%		\$ 0.0013	1039	\$ 1.35	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	1000	\$ 7.00	\$ -	0.00%		\$ 0.0070	1000	\$ 7.00	\$ -	0.00%		\$ 0.0070	1000	\$ 7.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	640	\$ 49.28	\$ -	0.00%		\$ 0.0770	640	\$ 49.28	\$ -	0.00%		\$ 0.0770	640	\$ 49.28	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	180	\$ 20.52	\$ -	0.00%		\$ 0.1140	180	\$ 20.52	\$ -	0.00%		\$ 0.1140	180	\$ 20.52	\$ -	0.00%
TOU - On Peak	\$ 0.1400	180	\$ 25.20	\$ -	0.00%		\$ 0.1400	180	\$ 25.20	\$ -	0.00%		\$ 0.1400	180	\$ 25.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 153.58	<b>-\$ 0.68</b>	<b>-0.44%</b>				\$ 152.75	<b>-\$ 0.83</b>	<b>-0.54%</b>				\$ 153.39	<b>\$ 0.64</b>	<b>0.42%</b>
HST	13%		\$ 19.96	\$ 0.09	-0.44%		13%		\$ 19.86	\$ 0.11	-0.54%		13%		\$ 19.94	\$ 0.08	0.42%
<b>Total Bill (including HST)</b>			\$ 173.54	\$ 0.77	-0.44%				\$ 172.60	\$ 0.94	-0.54%				\$ 173.33	\$ 0.72	0.42%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>-\$ 17.35</b>	<b>\$ 0.08</b>	<b>-0.46%</b>				<b>-\$ 17.26</b>	<b>\$ 0.09</b>	<b>-0.52%</b>				<b>-\$ 17.33</b>	<b>-\$ 0.07</b>	<b>0.41%</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 156.19</b>	<b>-\$ 0.69</b>	<b>-0.44%</b>				<b>\$ 155.34</b>	<b>-\$ 0.85</b>	<b>-0.54%</b>				<b>\$ 156.00</b>	<b>\$ 0.65</b>	<b>0.42%</b>
<b>Total Bill on RPP (before Taxes)</b>			\$ 152.58	\$ 0.68	-0.44%				\$ 151.75	\$ 0.83	-0.54%				\$ 152.39	\$ 0.64	0.42%
HST	13%		\$ 19.83	\$ 0.09	-0.44%		13%		\$ 19.73	\$ 0.11	-0.54%		13%		\$ 19.81	\$ 0.08	0.42%
<b>Total Bill (including HST)</b>			\$ 172.41	\$ 0.77	-0.44%				\$ 171.47	\$ 0.94	-0.54%				\$ 172.20	\$ 0.72	0.42%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>-\$ 17.24</b>	<b>\$ 0.08</b>	<b>-0.46%</b>				<b>-\$ 17.15</b>	<b>\$ 0.09</b>	<b>-0.52%</b>				<b>-\$ 17.22</b>	<b>-\$ 0.07</b>	<b>0.41%</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 155.17</b>	<b>-\$ 0.69</b>	<b>-0.44%</b>				<b>\$ 154.32</b>	<b>-\$ 0.85</b>	<b>-0.55%</b>				<b>\$ 154.98</b>	<b>\$ 0.65</b>	<b>0.42%</b>

Loss Factor (%)

3.93%

3.93%

3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%
Distribution Volumetric Rate	\$ 0.0045	1000	\$ 4.50	\$ 4.20	-48.28%		\$ -	1000	\$ -	\$ 4.50	-100.00%		\$ -	1000	\$ -	\$ -	
<b>"Regular" Distribution Only</b>			\$ 27.80	<b>-\$ 0.68</b>	<b>-2.39%</b>				\$ 26.97	<b>-\$ 0.83</b>	<b>-2.99%</b>				\$ 27.61	<b>\$ 0.64</b>	<b>2.37%</b>

## Appendix 2-W Bill Impacts

**Customer Class:** Residential

TOU / non-TOU: TOU

**Consumption** 2,000 kWh    ☒ May 1 - October    ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

		2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 2.6300	1	\$ 2.63	\$ -	1	\$ -	-\$ 2.63	-100.00%
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.25	1	\$ 0.25	\$ 0.25	
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ 1.08	1	\$ 1.08	\$ 1.08	
			1	\$ -		1	\$ -	\$ -	
			1	\$ -		1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0154	2000	\$ 30.80	\$ 0.0126	2000	\$ 25.20	-\$ 5.60	-18.18%
Rate Rider Tax Change (2015)	per kWh	-\$ 0.0001	2000	-\$ 0.20	\$ -	2000	\$ -	\$ 0.20	-100.00%
LRAM VA (2016)	per kWh	\$ -	2000	\$ -	\$ 0.0003	2000	\$ 0.60	\$ 0.60	
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	2000	\$ -	\$ 0.0004	2000	\$ 0.80	\$ 0.80	
	per kWh	\$ -	-	\$ -		-	\$ -	\$ -	
		\$ -	2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
Sub-Total A (excluding pass through)				\$ 45.79		\$ 44.33	-\$ 1.46	-3.19%	
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	2000	\$ -	\$ 0.0010	2000	\$ 2.00	\$ 2.00	
			2000	\$ -	\$ -	2000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2015)	per kWh	\$ -	2000	\$ -	-\$ 0.0024	2000	-\$ 4.80	-\$ 4.80	
Disposition of Global Adjustment (2015)	per kWh	\$ 0.0156	0	\$ -	\$ -	2000	\$ -	\$ -	
Applicable to Non-RPP Customers	per kWh	\$ -	2000	\$ -	\$ 0.0137	0	\$ -	\$ -	
Disposition of Global Adjustment (2016)	per kWh	\$ -	2000	\$ -	\$ 0.0012	2000	\$ 2.40	\$ 1.00	71.43%
Applicable to Non-RPP Customers	per kWh	\$ 0.0007	2000	\$ 1.40	\$ 0.0950	78.6	\$ 7.47	\$ 0.93	14.24%
Low Voltage Service Charge	per kWh	\$ 0.0950	68.8	\$ 6.54	\$ 0.0950	78.6	\$ 7.47	\$ -	
Line Losses on Cost of Power	per kWh	\$ 0.0950	68.8	\$ 6.54	\$ 0.0950	78.6	\$ 7.47	\$ -	
Smart Meter Entity Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)				\$ 54.52		\$ 52.19	-\$ 2.33	-4.27%	
RTSR - Network	per kWh	\$ 0.0067	2069	\$ 13.86	\$ 0.0071	2079	\$ 14.76	\$ 0.90	6.47%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0051	2069	\$ 10.55	\$ 0.0056	2079	\$ 11.64	\$ 1.09	10.32%
Sub-Total C - Delivery (including Sub-Total B)				\$ 78.93		\$ 78.59	-\$ 0.34	-0.43%	
Wholesale Market Service Charge (WMSMC)	per kWh	\$ 0.0044	2069	\$ 9.10	\$ 0.0044	2079	\$ 9.15	\$ 0.04	0.47%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	2069	\$ 2.69	\$ 0.0013	2079	\$ 2.70	\$ 0.01	0.47%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	2000	\$ 14.00	\$ 0.0070	2000	\$ 14.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	1280	\$ 98.56	\$ 0.0770	1280	\$ 98.56	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	360	\$ 41.04	\$ 0.1140	360	\$ 41.04	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	360	\$ 50.40	\$ 0.1400	360	\$ 50.40	\$ -	0.00%
Total Bill on TOU (before Taxes)				\$ 294.97		\$ 294.68	-\$ 0.29	-0.10%	
HST		13%		\$ 38.35	13%	\$ 38.31	-\$ 0.04	-0.10%	
Total Bill (including HST)				\$ 333.32		\$ 332.99	-\$ 0.32	-0.10%	
Ontario Clean Energy Benefit <sup>1</sup>				-\$ 33.33		-\$ 33.30	\$ 0.03	-0.09%	
Total Bill on TOU (including OCEB)				\$ 299.99		\$ 299.69	-\$ 0.29	-0.10%	
Total Bill on RPP (before Taxes)				\$ 301.97		\$ 301.68	-\$ 0.29	-0.09%	
HST		13%		\$ 39.26	13%	\$ 39.22	-\$ 0.04	-0.09%	
Total Bill (including HST)				\$ 341.23		\$ 340.90	-\$ 0.32	-0.09%	
Ontario Clean Energy Benefit <sup>1</sup>				-\$ 34.12		-\$ 34.09	\$ 0.03	-0.09%	
Total Bill on RPP (including OCEB)				\$ 307.11		\$ 306.81	-\$ 0.29	-0.10%	

Loss Factor (%)	3.44%
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Distribution Excluding Rate Riders		
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	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 12.5600	1	\$ 12.56	\$ 16.4000	1	\$ 16.40	\$ 3.84	30.57%
Distribution Volumetric Rate	per kWh	\$ 0.0154	2000	\$ 30.80	\$ 0.0126	2000	\$ 25.20	-\$ 5.60	-18.18%
<b>"Regular" Distribution Only</b>				\$ 43.36			\$ 41.60	<b>-\$ 1.76</b>	<b>-4.06%</b>

Residential

2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ 0.25	-100.00%
\$ 1.08	1	\$ 1.08	\$ -	0.00%
	1	\$ -	\$ -	
	1	\$ -	\$ -	
\$ 0.0087	2000	\$ 17.40	\$ 7.80	-30.95%
\$ -	2000	\$ -	\$ -	
\$ -	2000	\$ -	\$ 0.60	-100.00%
\$ -	2000	\$ -	\$ 0.80	-100.00%
		\$ -	\$ -	
	2000	\$ -	\$ -	
	2000	\$ -	\$ -	
	2000	\$ -	\$ -	
	2000	\$ -	\$ -	
	2000	\$ -	\$ -	
		\$ 38.26	\$ 6.07	-13.69%
\$ -	2000	\$ -	\$ 2.00	-100.00%
	2000	\$ -	\$ -	
\$ 0.0024	2000	\$ 4.80	\$ -	0.00%
\$ -	2000	\$ -	\$ -	
\$ -	2000	\$ -	\$ -	
\$ 0.0012	2000	\$ 2.40	\$ -	0.00%
\$ 0.0950	78.6	\$ 7.47	\$ -	0.00%
\$ 0.7900	1	\$ 0.79	\$ -	0.00%
		\$ 44.12	\$ 8.07	-15.46%
\$ 0.0071	2079	\$ 14.76	\$ -	0.00%
\$ 0.0056	2079	\$ 11.64	\$ -	0.00%
		\$ 70.52	\$ 8.07	-10.27%
\$ 0.0044	2079	\$ 9.15	\$ -	0.00%
\$ 0.0013	2079	\$ 2.70	\$ -	0.00%
\$ 0.2500	1	\$ 0.25	\$ -	0.00%
\$ 0.0070	2000	\$ 14.00	\$ -	0.00%
\$ 0.0770	1280	\$ 98.56	\$ -	0.00%
\$ 0.1140	360	\$ 41.04	\$ -	0.00%
\$ 0.1400	360	\$ 50.40	\$ -	0.00%
13%		\$ 286.61	\$ 8.07	-2.74%
		\$ 37.26	\$ 1.05	-2.74%
		\$ 323.87	\$ 9.12	-2.74%
		\$ 32.39	\$ 0.91	-2.73%
		\$ 291.48	\$ 8.21	-2.74%
13%		\$ 293.61	\$ 8.07	-2.67%
		\$ 38.17	\$ 1.05	-2.67%
		\$ 331.78	\$ 9.12	-2.67%
		\$ 33.18	\$ 0.91	-2.67%
		\$ 298.60	\$ 8.21	-2.68%

3.93%

2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 TEST 1	
Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
\$ 19.7800	1	\$ 19.78	\$ 3.38	20.61%
\$ 0.0087	2000	\$ 17.40	\$ - 7.80	-30.95%
		\$ 37.18	<b>-\$ 4.42</b>	<b>-10.63%</b>

Customer Class:

Residential

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%		\$ 1.08	1	\$ 1.08	\$ -	0.00%
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -	
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0045	2000	\$ 9.00	\$ 8.40	-48.28%		\$ -	2000	\$ -	\$ 9.00	-100.00%		\$ -	2000	\$ -	\$ -	
Rate Rider Tax Change (2015)	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
LRAM VA (2016)	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
		-	\$ -	\$ -				-	\$ -	\$ -				-	\$ -	\$ -	
		2000	\$ -	\$ -				2000	\$ -	\$ -				2000	\$ -	\$ -	
		2000	\$ -	\$ -				2000	\$ -	\$ -				2000	\$ -	\$ -	
		2000	\$ -	\$ -				2000	\$ -	\$ -				2000	\$ -	\$ -	
		2000	\$ -	\$ -				2000	\$ -	\$ -				2000	\$ -	\$ -	
		2000	\$ -	\$ -				2000	\$ -	\$ -				2000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 33.38	\$ 4.88	-12.75%				\$ 28.05	\$ 5.33	-15.97%				\$ 28.69	\$ 0.64	2.28%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
		2000	\$ -	\$ -				2000	\$ -	\$ -				2000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	\$ 0.0024	2000	\$ 4.80	\$ -	0.00%		\$ 0.0024	2000	\$ 4.80	\$ -	0.00%		\$ 0.0024	2000	\$ 4.80	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0012	2000	\$ 2.40	\$ -	0.00%		\$ 0.0012	2000	\$ 2.40	\$ -	0.00%		\$ 0.0012	2000	\$ 2.40	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	78.6	\$ 7.47	\$ -	0.00%		\$ 0.0950	78.6	\$ 7.47	\$ -	0.00%		\$ 0.0950	78.6	\$ 7.47	\$ -	0.00%
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 39.24	\$ 4.88	-11.06%				\$ 33.91	\$ 5.33	-13.58%				\$ 34.55	\$ 0.64	1.89%
RTSR - Network	\$ 0.0071	2079	\$ 14.76	\$ -	0.00%		\$ 0.0071	2079	\$ 14.76	\$ -	0.00%		\$ 0.0071	2079	\$ 14.76	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 0.0056	2079	\$ 11.64	\$ -	0.00%		\$ 0.0056	2079	\$ 11.64	\$ -	0.00%		\$ 0.0056	2079	\$ 11.64	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 65.64	\$ 4.88	-6.92%				\$ 60.31	\$ 5.33	-8.12%				\$ 60.95	\$ 0.64	1.06%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	2079	\$ 9.15	\$ -	0.00%		\$ 0.0044	2079	\$ 9.15	\$ -	0.00%		\$ 0.0044	2079	\$ 9.15	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	2079	\$ 2.70	\$ -	0.00%		\$ 0.0013	2079	\$ 2.70	\$ -	0.00%		\$ 0.0013	2079	\$ 2.70	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	2000	\$ 14.00	\$ -	0.00%		\$ 0.0070	2000	\$ 14.00	\$ -	0.00%		\$ 0.0070	2000	\$ 14.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	1280	\$ 98.56	\$ -	0.00%		\$ 0.0770	1280	\$ 98.56	\$ -	0.00%		\$ 0.0770	1280	\$ 98.56	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	360	\$ 41.04	\$ -	0.00%		\$ 0.1140	360	\$ 41.04	\$ -	0.00%		\$ 0.1140	360	\$ 41.04	\$ -	0.00%
TOU - On Peak	\$ 0.1400	360	\$ 50.40	\$ -	0.00%		\$ 0.1400	360	\$ 50.40	\$ -	0.00%		\$ 0.1400	360	\$ 50.40	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 281.73	\$ 4.88	-1.70%				\$ 276.40	\$ 5.33	-1.89%				\$ 277.04	\$ 0.64	0.23%
HST	13%		\$ 36.63	\$ 0.63	-1.70%		13%		\$ 35.93	\$ 0.69	-1.89%		13%		\$ 36.02	\$ 0.08	0.23%
<b>Total Bill (including HST)</b>			\$ 318.36	\$ 5.51	-1.70%				\$ 312.34	\$ 6.02	-1.89%				\$ 313.06	\$ 0.72	0.23%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			\$ 31.84	\$ 0.55	-1.70%				\$ 31.23	\$ 0.61	-1.92%				\$ 31.31	\$ 0.08	0.26%
<b>Total Bill on TOU (including OCEB)</b>			\$ 286.52	\$ 4.96	-1.70%				\$ 281.11	\$ 5.41	-1.89%				\$ 281.75	\$ 0.64	0.23%
<b>Total Bill on RPP (before Taxes)</b>			\$ 288.73	\$ 4.88	-1.66%				\$ 283.40	\$ 5.33	-1.85%				\$ 284.04	\$ 0.64	0.23%
HST	13%		\$ 37.54	\$ 0.63	-1.66%		13%		\$ 36.84	\$ 0.69	-1.85%		13%		\$ 36.93	\$ 0.08	0.23%
<b>Total Bill (including HST)</b>			\$ 326.27	\$ 5.51	-1.66%				\$ 320.25	\$ 6.02	-1.85%				\$ 320.97	\$ 0.72	0.23%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			\$ 32.63	\$ 0.55	-1.66%				\$ 32.02	\$ 0.61	-1.87%				\$ 32.10	\$ 0.08	0.25%
<b>Total Bill on RPP (including OCEB)</b>			\$ 293.64	\$ 4.96	-1.66%				\$ 288.23	\$ 5.41	-1.84%				\$ 288.87	\$ 0.64	0.22%

Loss Factor (%)

3.93%

3.93%

3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 23.3000	1	\$ 23.30	\$ 3.52	17.80%		\$ 26.9700	1	\$ 26.97	\$ 3.67	15.75%		\$ 27.6100	1	\$ 27.61	\$ 0.64	2.37%
Distribution Volumetric Rate	\$ 0.0045	2000	\$ 9.00	\$ 8.40	-48.28%		\$ -	2000	\$ -	\$ 9.00	-100.00%		\$ -	2000	\$ -	\$ -	
<b>"Regular" Distribution Only</b>			\$ 32.30	\$ 4.88	-13.13%				\$ 26.97	\$ 5.33	-16.50%				\$ 27.61	\$ 0.64	2.37%

**Appendix 2-W  
Bill Impacts**

Customer Class: **General Service Less Than 50 kW**

**General Service Less Than 50 kW**

TOU / non-TOU: **TOU**

Consumption: **1,000** kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 3.6500	1	\$ 3.65	\$ -	1	\$ -	\$ 3.65	-100.00%
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.4300	1	\$ 0.43	\$ 0.43	100.00%
Rate Rider Recovery of Stranded Meters (2016)	Monthly	\$ -	1	\$ -	\$ 1.8700	1	\$ 1.87	\$ 1.87	100.00%
			1	\$ -	\$ -	1	\$ -	\$ -	
			1	\$ -	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0106	1000	\$ 10.60	\$ 0.0109	1000	\$ 10.90	\$ 0.30	2.83%
Rate Rider Tax Change (2015)	per kWh	\$ 0.0001	1000	\$ 0.10	\$ -	1000	\$ -	\$ 0.10	-100.00%
LRAM VA (2016)	per kWh	\$ -	1000	\$ -	\$ 0.0008	1000	\$ 0.80	\$ 0.80	100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	1000	\$ -	\$ 0.0002	1000	\$ 0.20	\$ 0.20	100.00%
<b>Sub-Total A (excluding pass through)</b>				\$ 40.00			\$ 41.04	\$ 1.04	2.60%
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	1000	\$ -	\$ 0.0005	1000	\$ 0.50	\$ 0.50	100.00%
			1000	\$ -	\$ -	1000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	1000	\$ -	\$ 0.0015	1000	\$ 1.50	\$ 1.50	100.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kWh	\$ 0.0156	0	\$ -	\$ -	1000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kWh	\$ -	1000	\$ -	\$ 0.0137	0	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0006	1000	\$ 0.60	\$ 0.0011	1000	\$ 1.10	\$ 0.50	83.33%
Line Losses on Cost of Power	per kWh	\$ 0.0950	34.4	\$ 3.27	\$ 0.0950	39.3	\$ 3.73	\$ 0.47	14.24%
Smart Meter Entry Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 44.66			\$ 44.66	\$ 0.01	0.01%
RTSR - Network	per kWh	\$ 0.0060	1034	\$ 6.21	\$ 0.0063	1039	\$ 6.55	\$ 0.34	5.50%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0046	1034	\$ 4.76	\$ 0.0051	1039	\$ 5.30	\$ 0.54	11.39%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 55.62			\$ 56.51	\$ 0.89	1.60%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	1034	\$ 4.55	\$ 0.0044	1039	\$ 4.57	\$ 0.02	0.47%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	1034	\$ 1.34	\$ 0.0013	1039	\$ 1.35	\$ 0.01	0.47%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	1000	\$ 7.00	\$ 0.0070	1000	\$ 7.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	640	\$ 49.28	\$ 0.0770	640	\$ 49.28	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	180	\$ 20.52	\$ 0.1140	180	\$ 20.52	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	180	\$ 25.20	\$ 0.1400	180	\$ 25.20	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	400	\$ 41.20	\$ 0.1030	400	\$ 41.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$ 163.77			\$ 164.69	\$ 0.92	0.56%
HST		13%		\$ 21.29	13%		\$ 21.41	\$ 0.12	0.56%
<b>Total Bill (including HST)</b>				\$ 185.06			\$ 186.09	\$ 1.04	0.56%
<b>Ontario Clean Energy Benefit</b>				-\$ 18.51			-\$ 18.61	-\$ 0.10	0.54%
<b>Total Bill on TOU (including OCEB)</b>				\$ 166.55			\$ 167.48	\$ 0.94	0.56%
<b>Total Bill on RPP (before Taxes)</b>				\$ 109.97			\$ 110.89	\$ 0.92	0.83%
HST		13%		\$ 14.30	13%		\$ 14.42	\$ 0.12	0.83%
<b>Total Bill (including HST)</b>				\$ 124.26			\$ 125.30	\$ 1.04	0.83%
<b>Ontario Clean Energy Benefit</b>				-\$ 12.43			-\$ 12.53	-\$ 0.10	0.80%
<b>Total Bill on RPP (including OCEB)</b>				\$ 111.83			\$ 112.77	\$ 0.94	0.84%

Loss Factor (%) **3.44%**

**3.93%**

**3.93%**

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Distribution Volumetric Rate	per kWh	\$ 0.0106	1000	\$ 10.60	\$ 0.0109	1000	\$ 10.90	\$ 0.30	2.83%
<b>"Regular" Distribution Only</b>				\$ 36.45			\$ 37.74	\$ 1.29	3.54%

2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
\$ 27.6000	1	\$ 27.60	\$ 0.76	2.83%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ 0.43	-100.00%
\$ 1.8700	1	\$ 1.87	\$ -	0.00%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ -	
\$ 0.0112	1000	\$ 11.20	\$ 0.30	2.75%
\$ -	1000	\$ -	\$ -	
\$ -	1000	\$ -	\$ 0.80	-100.00%
\$ -	1000	\$ -	\$ 0.20	-100.00%
		\$ 40.67	-\$ 0.37	-0.90%
\$ -	1000	\$ -	\$ 0.50	-100.00%
\$ -	1000	\$ -	\$ -	
-\$ 0.0015	1000	\$ 1.50	\$ -	0.00%
\$ -	1000	\$ -	\$ -	
\$ -	1000	\$ -	\$ -	
\$ 0.0011	1000	\$ 1.10	\$ -	0.00%
\$ 0.0950	39.3	\$ 3.73	\$ -	0.00%
\$ 0.7900	1	\$ 0.79	\$ -	0.00%
		\$ 44.79	\$ 0.13	0.29%
\$ 0.0063	1039	\$ 6.55	\$ -	0.00%
\$ 0.0051	1039	\$ 5.30	\$ -	0.00%
		\$ 56.64	\$ 0.13	0.23%
\$ 0.0044	1039	\$ 4.57	\$ -	0.00%
\$ 0.0013	1039	\$ 1.35	\$ -	0.00%
\$ 0.2500	1	\$ 0.25	\$ -	0.00%
\$ 0.0070	1000	\$ 7.00	\$ -	0.00%
\$ 0.0770	640	\$ 49.28	\$ -	0.00%
\$ 0.1140	180	\$ 20.52	\$ -	0.00%
\$ 0.1400	180	\$ 25.20	\$ -	0.00%
\$ 0.0880	600	\$ 52.80	\$ -	0.00%
\$ 0.1030	400	\$ 41.20	\$ -	0.00%
13%		\$ 164.82	\$ 0.13	0.08%
		\$ 21.43	\$ 0.02	0.08%
		\$ 186.24	\$ 0.15	0.08%
		-\$ 18.62	-\$ 0.01	0.05%
		\$ 167.62	\$ 0.14	0.08%
13%		\$ 111.02	\$ 0.13	0.12%
		\$ 14.43	\$ 0.02	0.12%
		\$ 125.45	\$ 0.15	0.12%
		-\$ 12.54	-\$ 0.01	0.08%
		\$ 112.91	\$ 0.14	0.12%

Customer Class:

General Service Less Than 50 kW

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters (2016)	\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0116	1000	\$ 11.60	\$ 0.40	3.57%		\$ 0.0121	1000	\$ 12.10	\$ 0.50	4.31%		\$ 0.0125	1000	\$ 12.50	\$ 0.40	3.31%
Rate Rider Tax Change (2015)	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
LRAM VA (2016)	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 41.63	\$ 0.96	2.36%				\$ 42.57	\$ 0.94	2.26%				\$ 43.20	\$ 0.63	1.48%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	\$ 0.0015	1000	\$ 1.50	\$ -	0.00%		\$ 0.0015	1000	\$ 1.50	\$ -	0.00%		\$ 0.0015	1000	\$ 1.50	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -			\$ -	1000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0011	1000	\$ 1.10	\$ -	0.00%		\$ 0.0011	1000	\$ 1.10	\$ -	0.00%		\$ 0.0011	1000	\$ 1.10	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	39.3	\$ 3.73	\$ -	0.00%		\$ 0.0950	39.3	\$ 3.73	\$ -	0.00%		\$ 0.0950	39.3	\$ 3.73	\$ -	0.00%
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 45.75	\$ 0.96	2.14%				\$ 46.69	\$ 0.94	2.05%				\$ 47.32	\$ 0.63	1.35%
RTSR - Network	\$ 0.0063	1039	\$ 6.55	\$ -	0.00%		\$ 0.0063	1039	\$ 6.55	\$ -	0.00%		\$ 0.0063	1039	\$ 6.55	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 0.0051	1039	\$ 5.30	\$ -	0.00%		\$ 0.0051	1039	\$ 5.30	\$ -	0.00%		\$ 0.0051	1039	\$ 5.30	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 57.60	\$ 0.96	1.69%				\$ 58.54	\$ 0.94	1.63%				\$ 59.17	\$ 0.63	1.08%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	1039	\$ 4.57	\$ -	0.00%		\$ 0.0044	1039	\$ 4.57	\$ -	0.00%		\$ 0.0044	1039	\$ 4.57	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	1039	\$ 1.35	\$ -	0.00%		\$ 0.0013	1039	\$ 1.35	\$ -	0.00%		\$ 0.0013	1039	\$ 1.35	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	1000	\$ 7.00	\$ -	0.00%		\$ 0.0070	1000	\$ 7.00	\$ -	0.00%		\$ 0.0070	1000	\$ 7.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	640	\$ 49.28	\$ -	0.00%		\$ 0.0770	640	\$ 49.28	\$ -	0.00%		\$ 0.0770	640	\$ 49.28	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	180	\$ 20.52	\$ -	0.00%		\$ 0.1140	180	\$ 20.52	\$ -	0.00%		\$ 0.1140	180	\$ 20.52	\$ -	0.00%
TOU - On Peak	\$ 0.1400	180	\$ 25.20	\$ -	0.00%		\$ 0.1400	180	\$ 25.20	\$ -	0.00%		\$ 0.1400	180	\$ 25.20	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	400	\$ 41.20	\$ -	0.00%		\$ 0.1030	400	\$ 41.20	\$ -	0.00%		\$ 0.1030	400	\$ 41.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 165.78	\$ 0.96	0.58%				\$ 166.72	\$ 0.94	0.57%				\$ 167.35	\$ 0.63	0.38%
HST	13%		\$ 21.55	\$ 0.12	0.58%		13%		\$ 21.67	\$ 0.12	0.57%		13%		\$ 21.75	\$ 0.08	0.38%
<b>Total Bill (including HST)</b>			\$ 187.33	\$ 1.08	0.58%				\$ 188.39	\$ 1.06	0.57%				\$ 189.10	\$ 0.71	0.38%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ 18.73	\$ 0.11	0.59%				\$ 18.84	\$ 0.11	0.59%				\$ 18.91	\$ 0.07	0.37%
<b>Total Bill on TOU (including OCEB)</b>			\$ 168.60	\$ 0.97	0.58%				\$ 169.55	\$ 0.95	0.56%				\$ 170.19	\$ 0.64	0.38%
<b>Total Bill on RPP (before Taxes)</b>			\$ 111.98	\$ 0.96	0.86%				\$ 112.92	\$ 0.94	0.84%				\$ 113.55	\$ 0.63	0.56%
HST	13%		\$ 14.56	\$ 0.12	0.86%		13%		\$ 14.68	\$ 0.12	0.84%		13%		\$ 14.76	\$ 0.08	0.56%
<b>Total Bill (including HST)</b>			\$ 126.53	\$ 1.08	0.86%				\$ 127.59	\$ 1.06	0.84%				\$ 128.31	\$ 0.71	0.56%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ 12.65	\$ 0.11	0.88%				\$ 12.76	\$ 0.11	0.87%				\$ 12.83	\$ 0.07	0.55%
<b>Total Bill on RPP (including OCEB)</b>			\$ 113.88	\$ 0.97	0.86%				\$ 114.83	\$ 0.95	0.84%				\$ 115.48	\$ 0.64	0.56%
<b>Loss Factor (%)</b>			3.93%						3.93%						3.93%		
<b>Distribution Excluding Rate Riders</b>																	
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Distribution Volumetric Rate	\$ 0.0116	1000	\$ 11.60	\$ 0.40	3.57%		\$ 0.0121	1000	\$ 12.10	\$ 0.50	4.31%		\$ 0.0125	1000	\$ 12.50	\$ 0.40	3.31%
<b>"Regular" Distribution Only</b>			\$ 39.76	\$ 0.96	2.47%				\$ 40.70	\$ 0.94	2.36%				\$ 41.33	\$ 0.63	1.55%

**Appendix 2-W  
Bill Impacts**

Customer Class: **General Service Less Than 50 kW**

**General Service Less Than 50 kW**

TOU / non-TOU: **TOU**

Consumption **2,000** kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 3.6500	1	\$ 3.65	\$ -	1	\$ -	\$ 3.65	-100.00%
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.4300	1	\$ 0.43	\$ 0.43	100.00%
Rate Rider Recovery of Stranded Meters (2016)	Monthly	\$ -	1	\$ -	\$ 1.8700	1	\$ 1.87	\$ 1.87	100.00%
			1	\$ -	\$ -	1	\$ -	\$ -	
			1	\$ -	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0106	2000	\$ 21.20	\$ 0.0109	2000	\$ 21.80	\$ 0.60	2.83%
Rate Rider Tax Change (2015)	per kWh	\$ 0.0001	2000	\$ 0.20	\$ -	2000	\$ -	\$ 0.20	-100.00%
LRAM VA (2016)	per kWh	\$ -	2000	\$ -	\$ 0.0008	2000	\$ 1.60	\$ 1.60	100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	2000	\$ -	\$ 0.0002	2000	\$ 0.40	\$ 0.40	100.00%
<b>Sub-Total A (excluding pass through)</b>				\$ 50.50			\$ 52.94	\$ 2.44	4.83%
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	2000	\$ -	\$ 0.0005	2000	\$ 1.00	\$ 1.00	100.00%
			2000	\$ -	\$ -	2000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	2000	\$ -	\$ 0.0015	2000	\$ 3.00	\$ 3.00	100.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kWh	\$ 0.0156	0	\$ -	\$ -	2000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kWh	\$ -	2000	\$ -	\$ 0.0137	0	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0006	2000	\$ 1.20	\$ 0.0011	2000	\$ 2.20	\$ 1.00	83.33%
Line Losses on Cost of Power	per kWh	\$ 0.0950	68.8	\$ 6.54	\$ 0.0950	78.6	\$ 7.47	\$ 0.93	14.24%
Smart Meter Entity Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 59.03			\$ 59.40	\$ 0.37	0.63%
RTSR - Network	per kWh	\$ 0.0060	2069	\$ 12.41	\$ 0.0063	2079	\$ 13.10	\$ 0.68	5.50%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0046	2069	\$ 9.52	\$ 0.0051	2079	\$ 10.60	\$ 1.08	11.39%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 80.96			\$ 83.09	\$ 2.14	2.64%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	2069	\$ 9.10	\$ 0.0044	2079	\$ 9.15	\$ 0.04	0.47%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	2069	\$ 2.69	\$ 0.0013	2079	\$ 2.70	\$ 0.01	0.47%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	2000	\$ 14.00	\$ 0.0070	2000	\$ 14.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	1280	\$ 98.56	\$ 0.0770	1280	\$ 98.56	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	360	\$ 41.04	\$ 0.1140	360	\$ 41.04	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	360	\$ 50.40	\$ 0.1400	360	\$ 50.40	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	1400	\$ 144.20	\$ 0.1030	1400	\$ 144.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$ 297.00			\$ 299.19	\$ 2.19	0.74%
HST		13%		\$ 38.61	13%		\$ 38.89	\$ 0.29	0.74%
<b>Total Bill (including HST)</b>				\$ 335.61			\$ 338.09	\$ 2.48	0.74%
<b>Ontario Clean Energy Benefit</b>				<b>-\$ 33.56</b>			<b>-\$ 33.81</b>	<b>-\$ 0.25</b>	<b>0.74%</b>
<b>Total Bill on TOU (including OCEB)</b>				<b>\$ 302.05</b>			<b>\$ 304.28</b>	<b>\$ 2.23</b>	<b>0.74%</b>
<b>Total Bill on RPP (before Taxes)</b>				<b>\$ 251.20</b>			<b>\$ 253.39</b>	<b>\$ 2.19</b>	<b>0.87%</b>
HST		13%		\$ 32.66	13%		\$ 32.94	\$ 0.29	0.87%
<b>Total Bill (including HST)</b>				\$ 283.85			\$ 286.33	\$ 2.48	0.87%
<b>Ontario Clean Energy Benefit</b>				<b>-\$ 28.39</b>			<b>-\$ 28.63</b>	<b>-\$ 0.24</b>	<b>0.85%</b>
<b>Total Bill on RPP (including OCEB)</b>				<b>\$ 255.46</b>			<b>\$ 257.70</b>	<b>\$ 2.24</b>	<b>0.88%</b>

Loss Factor (%) **3.44%**

**3.93%**

**3.93%**

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Distribution Volumetric Rate	per kWh	\$ 0.0106	2000	\$ 21.20	\$ 0.0109	2000	\$ 21.80	\$ 0.60	2.83%
<b>"Regular" Distribution Only</b>				<b>\$ 47.05</b>			<b>\$ 48.64</b>	<b>\$ 1.59</b>	<b>3.38%</b>

2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
\$ 27.6000	1	\$ 27.60	\$ 0.76	2.83%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ 0.43	-100.00%
\$ 1.8700	1	\$ 1.87	\$ -	0.00%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ -	
\$ 0.0112	2000	\$ 22.40	\$ 0.60	2.75%
\$ -	2000	\$ -	\$ -	
\$ -	2000	\$ -	\$ 1.60	-100.00%
\$ -	2000	\$ -	\$ 0.40	-100.00%
		\$ 51.87	<b>-\$ 1.07</b>	<b>-2.02%</b>
\$ -	2000	\$ -	\$ 1.00	-100.00%
	2000	\$ -	\$ -	
\$ 0.0015	2000	\$ 3.00	\$ -	0.00%
\$ -	2000	\$ -	\$ -	
\$ -	2000	\$ -	\$ -	
\$ 0.0011	2000	\$ 2.20	\$ -	0.00%
\$ 0.0950	78.6	\$ 7.47	\$ -	0.00%
\$ 0.7900	1	\$ 0.79	\$ -	0.00%
		\$ 59.33	<b>-\$ 0.07</b>	<b>-0.12%</b>
\$ 0.0063	2079	\$ 13.10	\$ -	0.00%
\$ 0.0051	2079	\$ 10.60	\$ -	0.00%
		\$ 83.02	<b>-\$ 0.07</b>	<b>-0.08%</b>
\$ 0.0044	2079	\$ 9.15	\$ -	0.00%
\$ 0.0013	2079	\$ 2.70	\$ -	0.00%
\$ 0.2500	1	\$ 0.25	\$ -	0.00%
\$ 0.0070	2000	\$ 14.00	\$ -	0.00%
\$ 0.0770	1280	\$ 98.56	\$ -	0.00%
\$ 0.1140	360	\$ 41.04	\$ -	0.00%
\$ 0.1400	360	\$ 50.40	\$ -	0.00%
\$ 0.0880	600	\$ 52.80	\$ -	0.00%
\$ 0.1030	1400	\$ 144.20	\$ -	0.00%
13%		\$ 299.12	<b>-\$ 0.07</b>	<b>-0.02%</b>
		\$ 38.89	<b>-\$ 0.01</b>	<b>-0.02%</b>
		\$ 338.01	<b>-\$ 0.08</b>	<b>-0.02%</b>
		<b>-\$ 33.80</b>	<b>\$ 0.01</b>	<b>-0.03%</b>
		<b>\$ 304.21</b>	<b>-\$ 0.07</b>	<b>-0.02%</b>
13%		\$ 253.32	<b>-\$ 0.07</b>	<b>-0.03%</b>
		\$ 32.93	<b>-\$ 0.01</b>	<b>-0.03%</b>
		\$ 286.25	<b>-\$ 0.08</b>	<b>-0.03%</b>
		<b>-\$ 28.63</b>	<b>\$ -</b>	<b>0.00%</b>
		<b>\$ 257.62</b>	<b>-\$ 0.08</b>	<b>-0.03%</b>

Customer Class:

General Service Less Than 50 kW

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters (2016)	\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0116	2000	\$ 23.20	\$ 0.80	3.57%		\$ 0.0121	2000	\$ 24.20	\$ 1.00	4.31%		\$ 0.0125	2000	\$ 25.00	\$ 0.80	3.31%
Rate Rider Tax Change (2015)	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
LRAM VA (2016)	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 53.23	\$ 1.36	2.62%				\$ 54.67	\$ 1.44	2.71%				\$ 55.70	\$ 1.03	1.88%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	\$ 0.0015	2000	\$ 3.00	\$ -	0.00%		\$ 0.0015	2000	\$ 3.00	\$ -	0.00%		\$ 0.0015	2000	\$ 3.00	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -			\$ -	2000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0011	2000	\$ 2.20	\$ -	0.00%		\$ 0.0011	2000	\$ 2.20	\$ -	0.00%		\$ 0.0011	2000	\$ 2.20	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	78.6	\$ 7.47	\$ -	0.00%		\$ 0.0950	78.6	\$ 7.47	\$ -	0.00%		\$ 0.0950	78.6	\$ 7.47	\$ -	0.00%
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 60.69	\$ 1.36	2.29%				\$ 62.13	\$ 1.44	2.37%				\$ 63.16	\$ 1.03	1.66%
RTSR - Network	\$ 0.0063	2079	\$ 13.10	\$ -	0.00%		\$ 0.0063	2079	\$ 13.10	\$ -	0.00%		\$ 0.0063	2079	\$ 13.10	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 0.0051	2079	\$ 10.60	\$ -	0.00%		\$ 0.0051	2079	\$ 10.60	\$ -	0.00%		\$ 0.0051	2079	\$ 10.60	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 84.38	\$ 1.36	1.64%				\$ 85.82	\$ 1.44	1.71%				\$ 86.85	\$ 1.03	1.20%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	2079	\$ 9.15	\$ -	0.00%		\$ 0.0044	2079	\$ 9.15	\$ -	0.00%		\$ 0.0044	2079	\$ 9.15	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	2079	\$ 2.70	\$ -	0.00%		\$ 0.0013	2079	\$ 2.70	\$ -	0.00%		\$ 0.0013	2079	\$ 2.70	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	2000	\$ 14.00	\$ -	0.00%		\$ 0.0070	2000	\$ 14.00	\$ -	0.00%		\$ 0.0070	2000	\$ 14.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	1280	\$ 98.56	\$ -	0.00%		\$ 0.0770	1280	\$ 98.56	\$ -	0.00%		\$ 0.0770	1280	\$ 98.56	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	360	\$ 41.04	\$ -	0.00%		\$ 0.1140	360	\$ 41.04	\$ -	0.00%		\$ 0.1140	360	\$ 41.04	\$ -	0.00%
TOU - On Peak	\$ 0.1400	360	\$ 50.40	\$ -	0.00%		\$ 0.1400	360	\$ 50.40	\$ -	0.00%		\$ 0.1400	360	\$ 50.40	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	1400	\$ 144.20	\$ -	0.00%		\$ 0.1030	1400	\$ 144.20	\$ -	0.00%		\$ 0.1030	1400	\$ 144.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 300.48	\$ 1.36	0.45%				\$ 301.92	\$ 1.44	0.48%				\$ 302.95	\$ 1.03	0.34%
HST	13%		\$ 39.06	\$ 0.18	0.45%		13%		\$ 39.25	\$ 0.19	0.48%		13%		\$ 39.38	\$ 0.13	0.34%
<b>Total Bill (including HST)</b>			\$ 339.54	\$ 1.54	0.45%				\$ 341.17	\$ 1.63	0.48%				\$ 342.33	\$ 1.16	0.34%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ 33.95	\$ 0.15	0.44%				\$ 34.12	\$ 0.17	0.50%				\$ 34.23	\$ 0.11	0.32%
<b>Total Bill on TOU (including OCEB)</b>			\$ 305.59	\$ 1.39	0.46%				\$ 307.05	\$ 1.46	0.48%				\$ 308.10	\$ 1.05	0.34%
<b>Total Bill on RPP (before Taxes)</b>			\$ 254.68	\$ 1.36	0.54%				\$ 256.12	\$ 1.44	0.57%				\$ 257.15	\$ 1.03	0.40%
HST	13%		\$ 33.11	\$ 0.18	0.54%		13%		\$ 33.30	\$ 0.19	0.57%		13%		\$ 33.43	\$ 0.13	0.40%
<b>Total Bill (including HST)</b>			\$ 287.79	\$ 1.54	0.54%				\$ 289.42	\$ 1.63	0.57%				\$ 290.58	\$ 1.16	0.40%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ 28.78	\$ 0.15	0.52%				\$ 28.94	\$ 0.16	0.56%				\$ 29.06	\$ 0.12	0.41%
<b>Total Bill on RPP (including OCEB)</b>			\$ 259.01	\$ 1.39	0.54%				\$ 260.48	\$ 1.47	0.57%				\$ 261.52	\$ 1.04	0.40%
<b>Loss Factor (%)</b>			3.93%						3.93%						3.93%		
<b>Distribution Excluding Rate Riders</b>																	
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Distribution Volumetric Rate	\$ 0.0116	2000	\$ 23.20	\$ 0.80	3.57%		\$ 0.0121	2000	\$ 24.20	\$ 1.00	4.31%		\$ 0.0125	2000	\$ 25.00	\$ 0.80	3.31%
<b>"Regular" Distribution Only</b>			\$ 51.36	\$ 1.36	2.72%				\$ 52.80	\$ 1.44	2.80%				\$ 53.83	\$ 1.03	1.95%

**Appendix 2-W  
Bill Impacts**

Customer Class: **General Service Less Than 50 kW**

**General Service Less Than 50 kW**

TOU / non-TOU: **TOU**

Consumption **5,000** kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 3.6500	1	\$ 3.65	\$ -	1	\$ -	\$ 3.65	-100.00%
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.4300	1	\$ 0.43	\$ 0.43	100.00%
Rate Rider Recovery of Stranded Meters (2016)	Monthly	\$ -	1	\$ -	\$ 1.8700	1	\$ 1.87	\$ 1.87	100.00%
			1	\$ -	\$ -	1	\$ -	\$ -	
			1	\$ -	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0106	5000	\$ 53.00	\$ 0.0109	5000	\$ 54.50	\$ 1.50	2.83%
Rate Rider Tax Change (2015)	per kWh	\$ 0.0001	5000	\$ 0.50	\$ -	5000	\$ -	\$ 0.50	-100.00%
LRAM VA (2016)	per kWh	\$ -	5000	\$ -	\$ 0.0008	5000	\$ 4.00	\$ 4.00	100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	5000	\$ -	\$ 0.0002	5000	\$ 1.00	\$ 1.00	100.00%
<b>Sub-Total A (excluding pass through)</b>				\$ 82.00			\$ 88.64	\$ 6.64	8.10%
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	5000	\$ -	\$ 0.0005	5000	\$ 2.50	\$ 2.50	100.00%
			5000	\$ -	\$ -	5000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	5000	\$ -	\$ 0.0015	5000	\$ 7.50	\$ 7.50	100.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kWh	\$ 0.0156	0	\$ -	\$ -	5000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kWh	\$ -	5000	\$ -	\$ 0.0137	0	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0006	5000	\$ 3.00	\$ 0.0011	5000	\$ 5.50	\$ 2.50	83.33%
Line Losses on Cost of Power	per kWh	\$ 0.0950	172	\$ 16.34	\$ 0.0950	196.5	\$ 18.67	\$ 2.33	14.24%
Smart Meter Entry Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 102.13			\$ 103.60	\$ 1.47	1.44%
RTSR - Network	per kWh	\$ 0.0060	5172	\$ 31.03	\$ 0.0063	5197	\$ 32.74	\$ 1.71	5.50%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0046	5172	\$ 23.79	\$ 0.0051	5197	\$ 26.50	\$ 2.71	11.39%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 156.95			\$ 162.84	\$ 5.88	3.75%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	5172	\$ 22.76	\$ 0.0044	5197	\$ 22.86	\$ 0.11	0.47%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	5172	\$ 6.72	\$ 0.0013	5197	\$ 6.76	\$ 0.03	0.47%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	5000	\$ 35.00	\$ 0.0070	5000	\$ 35.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	3200	\$ 246.40	\$ 0.0770	3200	\$ 246.40	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	900	\$ 102.60	\$ 0.1140	900	\$ 102.60	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	900	\$ 126.00	\$ 0.1400	900	\$ 126.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	4400	\$ 453.20	\$ 0.1030	4400	\$ 453.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$ 696.68			\$ 702.71	\$ 6.02	0.86%
HST		13%		\$ 90.57	13%		\$ 91.35	\$ 0.78	0.86%
<b>Total Bill (including HST)</b>				\$ 787.25			\$ 794.06	\$ 6.81	0.86%
<b>Ontario Clean Energy Benefit</b>				-\$ 78.73			-\$ 79.41	-\$ 0.68	0.86%
<b>Total Bill on TOU (including OCEB)</b>				\$ 708.52			\$ 714.65	\$ 6.13	0.86%
<b>Total Bill on RPP (before Taxes)</b>				\$ 674.88			\$ 680.91	\$ 6.02	0.89%
HST		13%		\$ 87.73	13%		\$ 88.52	\$ 0.78	0.89%
<b>Total Bill (including HST)</b>				\$ 762.62			\$ 769.43	\$ 6.81	0.89%
<b>Ontario Clean Energy Benefit</b>				-\$ 76.26			-\$ 76.94	-\$ 0.68	0.89%
<b>Total Bill on RPP (including OCEB)</b>				\$ 686.36			\$ 692.49	\$ 6.13	0.89%

Loss Factor (%) **3.44%**

**3.93%**

**3.93%**

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Distribution Volumetric Rate	per kWh	\$ 0.0106	5000	\$ 53.00	\$ 0.0109	5000	\$ 54.50	\$ 1.50	2.83%
<b>"Regular" Distribution Only</b>				\$ 78.85			\$ 81.34	\$ 2.49	3.16%

2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
\$ 27.6000	1	\$ 27.60	\$ 0.76	2.83%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ 0.43	-100.00%
\$ 1.8700	1	\$ 1.87	\$ -	0.00%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ -	
\$ 0.0112	5000	\$ 56.00	\$ 1.50	2.75%
\$ -	5000	\$ -	\$ -	
\$ -	5000	\$ -	\$ 4.00	-100.00%
\$ -	5000	\$ -	\$ 1.00	-100.00%
		\$ 85.47	-\$ 3.17	-3.56%
\$ -	5000	\$ -	\$ 2.50	-100.00%
\$ -	5000	\$ -	\$ -	
\$ 0.0015	5000	\$ 7.50	\$ -	0.00%
\$ -	5000	\$ -	\$ -	
\$ -	5000	\$ -	\$ -	
\$ 0.0011	5000	\$ 5.50	\$ -	0.00%
\$ 0.0950	196.5	\$ 18.67	\$ -	0.00%
\$ 0.7900	1	\$ 0.79	\$ -	0.00%
		\$ 102.93	-\$ 0.67	-0.65%
\$ 0.0063	5197	\$ 32.74	\$ -	0.00%
\$ 0.0051	5197	\$ 26.50	\$ -	0.00%
		\$ 162.17	-\$ 0.67	-0.41%
\$ 0.0044	5197	\$ 22.86	\$ -	0.00%
\$ 0.0013	5197	\$ 6.76	\$ -	0.00%
\$ 0.2500	1	\$ 0.25	\$ -	0.00%
\$ 0.0070	5000	\$ 35.00	\$ -	0.00%
\$ 0.0770	3200	\$ 246.40	\$ -	0.00%
\$ 0.1140	900	\$ 102.60	\$ -	0.00%
\$ 0.1400	900	\$ 126.00	\$ -	0.00%
\$ 0.0880	600	\$ 52.80	\$ -	0.00%
\$ 0.1030	4400	\$ 453.20	\$ -	0.00%
13%		\$ 702.04	-\$ 0.67	-0.10%
		\$ 91.26	\$ 0.09	-0.10%
		\$ 793.30	\$ 0.76	-0.10%
		-\$ 79.33	\$ 0.08	-0.10%
		\$ 713.97	-\$ 0.68	-0.09%
		\$ 680.24	-\$ 0.67	-0.10%
13%		\$ 88.43	\$ 0.09	-0.10%
		\$ 768.67	\$ 0.76	-0.10%
		-\$ 76.87	\$ 0.07	-0.09%
		\$ 691.80	-\$ 0.69	-0.10%

Customer Class:

General Service Less Than 50 kW

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters (2016)	\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0116	5000	\$ 58.00	\$ 2.00	3.57%		\$ 0.0121	5000	\$ 60.50	\$ 2.50	4.31%		\$ 0.0125	5000	\$ 62.50	\$ 2.00	3.31%
Rate Rider Tax Change (2015)	\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -	
LRAM VA (2016)	\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 88.03	\$ 2.56	3.00%				\$ 90.97	\$ 2.94	3.34%				\$ 93.20	\$ 2.23	2.45%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -	
	\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	\$ 0.0015	5000	\$ 7.50	\$ -	0.00%		\$ 0.0015	5000	\$ 7.50	\$ -	0.00%		\$ 0.0015	5000	\$ 7.50	\$ -	0.00%
	\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -			\$ -	5000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0011	5000	\$ 5.50	\$ -	0.00%		\$ 0.0011	5000	\$ 5.50	\$ -	0.00%		\$ 0.0011	5000	\$ 5.50	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	196.5	\$ 18.67	\$ -	0.00%		\$ 0.0950	196.5	\$ 18.67	\$ -	0.00%		\$ 0.0950	196.5	\$ 18.67	\$ -	0.00%
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 105.49	\$ 2.56	2.49%				\$ 108.43	\$ 2.94	2.79%				\$ 110.66	\$ 2.23	2.06%
RTSR - Network	\$ 0.0063	5197	\$ 32.74	\$ -	0.00%		\$ 0.0063	5197	\$ 32.74	\$ -	0.00%		\$ 0.0063	5197	\$ 32.74	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 0.0051	5197	\$ 26.50	\$ -	0.00%		\$ 0.0051	5197	\$ 26.50	\$ -	0.00%		\$ 0.0051	5197	\$ 26.50	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 164.73	\$ 2.56	1.58%				\$ 167.67	\$ 2.94	1.78%				\$ 169.90	\$ 2.23	1.33%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	5197	\$ 22.86	\$ -	0.00%		\$ 0.0044	5197	\$ 22.86	\$ -	0.00%		\$ 0.0044	5197	\$ 22.86	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	5197	\$ 6.76	\$ -	0.00%		\$ 0.0013	5197	\$ 6.76	\$ -	0.00%		\$ 0.0013	5197	\$ 6.76	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	5000	\$ 35.00	\$ -	0.00%		\$ 0.0070	5000	\$ 35.00	\$ -	0.00%		\$ 0.0070	5000	\$ 35.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	3200	\$ 246.40	\$ -	0.00%		\$ 0.0770	3200	\$ 246.40	\$ -	0.00%		\$ 0.0770	3200	\$ 246.40	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	900	\$ 102.60	\$ -	0.00%		\$ 0.1140	900	\$ 102.60	\$ -	0.00%		\$ 0.1140	900	\$ 102.60	\$ -	0.00%
TOU - On Peak	\$ 0.1400	900	\$ 126.00	\$ -	0.00%		\$ 0.1400	900	\$ 126.00	\$ -	0.00%		\$ 0.1400	900	\$ 126.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	4400	\$ 453.20	\$ -	0.00%		\$ 0.1030	4400	\$ 453.20	\$ -	0.00%		\$ 0.1030	4400	\$ 453.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 704.60	\$ 2.56	0.36%				\$ 707.54	\$ 2.94	0.42%				\$ 709.77	\$ 2.23	0.32%
HST	13%		\$ 91.60	\$ 0.33	0.36%		13%		\$ 91.98	\$ 0.38	0.42%		13%		\$ 92.27	\$ 0.29	0.32%
<b>Total Bill (including HST)</b>			\$ 796.20	\$ 2.89	0.36%				\$ 799.52	\$ 3.32	0.42%				\$ 802.04	\$ 2.52	0.32%
<b>Ontario Clean Energy Benefit</b>			\$ 79.62	\$ 0.29	0.37%				\$ 79.95	\$ 0.33	0.41%				\$ 80.20	\$ 0.25	0.31%
<b>Total Bill on TOU (including OCEB)</b>			\$ 716.58	\$ 2.60	0.36%				\$ 719.57	\$ 2.99	0.42%				\$ 721.84	\$ 2.27	0.32%
<b>Total Bill on RPP (before Taxes)</b>			\$ 682.80	\$ 2.56	0.38%				\$ 685.74	\$ 2.94	0.43%				\$ 687.97	\$ 2.23	0.33%
HST	13%		\$ 88.76	\$ 0.33	0.38%		13%		\$ 89.15	\$ 0.38	0.43%		13%		\$ 89.44	\$ 0.29	0.33%
<b>Total Bill (including HST)</b>			\$ 771.56	\$ 2.89	0.38%				\$ 774.88	\$ 3.32	0.43%				\$ 777.40	\$ 2.52	0.33%
<b>Ontario Clean Energy Benefit</b>			\$ 77.16	\$ 0.29	0.38%				\$ 77.49	\$ 0.33	0.43%				\$ 77.74	\$ 0.25	0.32%
<b>Total Bill on RPP (including OCEB)</b>			\$ 694.40	\$ 2.60	0.38%				\$ 697.39	\$ 2.99	0.43%				\$ 699.66	\$ 2.27	0.33%
<b>Loss Factor (%)</b>			3.93%						3.93%						3.93%		
<b>Distribution Excluding Rate Riders</b>																	
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Distribution Volumetric Rate	\$ 0.0116	5000	\$ 58.00	\$ 2.00	3.57%		\$ 0.0121	5000	\$ 60.50	\$ 2.50	4.31%		\$ 0.0125	5000	\$ 62.50	\$ 2.00	3.31%
<b>"Regular" Distribution Only</b>			\$ 86.16	\$ 2.56	3.06%				\$ 89.10	\$ 2.94	3.41%				\$ 91.33	\$ 2.23	2.50%

**Appendix 2-W  
Bill Impacts**

Customer Class: **General Service Less Than 50 kW**

**General Service Less Than 50 kW**

TOU / non-TOU: **TOU**

Consumption **10,000** kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 3.6500	1	\$ 3.65	\$ -	1	\$ -	\$ 3.65	-100.00%
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.4300	1	\$ 0.43	\$ 0.43	100.00%
Rate Rider Recovery of Stranded Meters (2016)	Monthly	\$ -	1	\$ -	\$ 1.8700	1	\$ 1.87	\$ 1.87	100.00%
			1	\$ -	\$ -	1	\$ -	\$ -	
			1	\$ -	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0106	10000	\$ 106.00	\$ 0.0109	10000	\$ 109.00	\$ 3.00	2.83%
Rate Rider Tax Change (2015)	per kWh	\$ 0.0001	10000	\$ 1.00	\$ -	10000	\$ -	\$ 1.00	-100.00%
LRAM VA (2016)	per kWh	\$ -	10000	\$ -	\$ 0.0008	10000	\$ 8.00	\$ 8.00	100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	10000	\$ -	\$ 0.0002	10000	\$ 2.00	\$ 2.00	100.00%
<b>Sub-Total A (excluding pass through)</b>				<b>\$ 134.50</b>			<b>\$ 148.14</b>	<b>\$ 13.64</b>	<b>10.14%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	10000	\$ -	\$ 0.0005	10000	\$ 5.00	\$ 5.00	100.00%
			10000	\$ -	\$ -	10000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	10000	\$ -	\$ 0.0015	10000	\$ 15.00	\$ 15.00	100.00%
			10000	\$ -	\$ -	10000	\$ -	\$ -	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kWh	\$ 0.0156	0	\$ -	\$ -	10000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kWh	\$ -	10000	\$ -	\$ 0.0137	0	\$ -	\$ -	
			10000	\$ -	\$ -	10000	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0006	10000	\$ 6.00	\$ 0.0011	10000	\$ 11.00	\$ 5.00	83.33%
Line Losses on Cost of Power	per kWh	\$ 0.0950	344	\$ 32.68	\$ 0.0950	393	\$ 37.33	\$ 4.65	14.24%
Smart Meter Entry Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				<b>\$ 173.97</b>			<b>\$ 177.27</b>	<b>\$ 3.29</b>	<b>1.89%</b>
RTSR - Network	per kWh	\$ 0.0060	10344	\$ 62.06	\$ 0.0063	10393	\$ 65.48	\$ 3.41	5.50%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0046	10344	\$ 47.58	\$ 0.0051	10393	\$ 53.00	\$ 5.42	11.39%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				<b>\$ 283.62</b>			<b>\$ 295.75</b>	<b>\$ 12.13</b>	<b>4.28%</b>
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	10344	\$ 45.51	\$ 0.0044	10393	\$ 45.73	\$ 0.22	0.47%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	10344	\$ 13.45	\$ 0.0013	10393	\$ 13.51	\$ 0.06	0.47%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	10000	\$ 70.00	\$ 0.0070	10000	\$ 70.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	6400	\$ 492.80	\$ 0.0770	6400	\$ 492.80	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	1800	\$ 205.20	\$ 0.1140	1800	\$ 205.20	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	1800	\$ 252.00	\$ 0.1400	1800	\$ 252.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	9400	\$ 968.20	\$ 0.1030	9400	\$ 968.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				<b>\$ 1,362.83</b>			<b>\$ 1,375.24</b>	<b>\$ 12.41</b>	<b>0.91%</b>
HST		13%		\$ 177.17	13%		\$ 178.78	\$ 1.61	0.91%
<b>Total Bill (including HST)</b>				<b>\$ 1,539.99</b>			<b>\$ 1,554.02</b>	<b>\$ 14.02</b>	<b>0.91%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				<b>-\$ 154.00</b>			<b>-\$ 155.40</b>	<b>-\$ 1.40</b>	<b>0.91%</b>
<b>Total Bill on TOU (including OCEB)</b>				<b>\$ 1,385.99</b>			<b>\$ 1,398.62</b>	<b>\$ 12.62</b>	<b>0.91%</b>
<b>Total Bill on RPP (before Taxes)</b>				<b>\$ 1,381.03</b>			<b>\$ 1,393.44</b>	<b>\$ 12.41</b>	<b>0.90%</b>
HST		13%		\$ 179.53	13%		\$ 181.15	\$ 1.61	0.90%
<b>Total Bill (including HST)</b>				<b>\$ 1,560.56</b>			<b>\$ 1,574.58</b>	<b>\$ 14.02</b>	<b>0.90%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				<b>-\$ 156.06</b>			<b>-\$ 157.46</b>	<b>-\$ 1.40</b>	<b>0.90%</b>
<b>Total Bill on RPP (including OCEB)</b>				<b>\$ 1,404.50</b>			<b>\$ 1,417.12</b>	<b>\$ 12.62</b>	<b>0.90%</b>

Loss Factor (%) **3.44%**

**3.93%**

**3.93%**

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Distribution Volumetric Rate	per kWh	\$ 0.0106	10000	\$ 106.00	\$ 0.0109	10000	\$ 109.00	\$ 3.00	2.83%
<b>"Regular" Distribution Only</b>				<b>\$ 131.85</b>			<b>\$ 135.84</b>	<b>\$ 3.99</b>	<b>3.03%</b>

2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
\$ 27.6000	1	\$ 27.60	\$ 0.76	2.83%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ 0.43	-100.00%
\$ 1.8700	1	\$ 1.87	\$ -	0.00%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ -	
\$ 0.0112	10000	\$ 112.00	\$ 3.00	2.75%
\$ -	10000	\$ -	\$ -	
\$ -	10000	\$ -	\$ 8.00	-100.00%
\$ -	10000	\$ -	\$ 2.00	-100.00%
		\$ 141.47	<b>-\$ 6.67</b>	<b>-4.50%</b>
\$ -	10000	\$ -	\$ 5.00	-100.00%
\$ -	10000	\$ -	\$ -	
\$ 0.0015	10000	\$ 15.00	\$ -	0.00%
\$ -	10000	\$ -	\$ -	
\$ -	10000	\$ -	\$ -	
\$ 0.0011	10000	\$ 11.00	\$ -	0.00%
\$ 0.0950	393	\$ 37.33	\$ -	0.00%
\$ 0.7900	1	\$ 0.79	\$ -	0.00%
		\$ 175.60	<b>-\$ 1.67</b>	<b>-0.94%</b>
\$ 0.0063	10393	\$ 65.48	\$ -	0.00%
\$ 0.0051	10393	\$ 53.00	\$ -	0.00%
		\$ 294.08	<b>-\$ 1.67</b>	<b>-0.56%</b>
\$ 0.0044	10393	\$ 45.73	\$ -	0.00%
\$ 0.0013	10393	\$ 13.51	\$ -	0.00%
\$ 0.2500	1	\$ 0.25	\$ -	0.00%
\$ 0.0070	10000	\$ 70.00	\$ -	0.00%
\$ 0.0770	6400	\$ 492.80	\$ -	0.00%
\$ 0.1140	1800	\$ 205.20	\$ -	0.00%
\$ 0.1400	1800	\$ 252.00	\$ -	0.00%
\$ 0.0880	600	\$ 52.80	\$ -	0.00%
\$ 0.1030	9400	\$ 968.20	\$ -	0.00%
13%		\$ 1,373.57	<b>-\$ 1.67</b>	<b>-0.12%</b>
		\$ 178.56	<b>-\$ 0.22</b>	<b>-0.12%</b>
		\$ 1,552.13	<b>-\$ 1.89</b>	<b>-0.12%</b>
		<b>-\$ 155.21</b>	<b>\$ 0.19</b>	<b>-0.12%</b>
		<b>\$ 1,396.92</b>	<b>-\$ 1.70</b>	<b>-0.12%</b>
13%		\$ 1,391.77	<b>-\$ 1.67</b>	<b>-0.12%</b>
		\$ 180.93	<b>-\$ 0.22</b>	<b>-0.12%</b>
		\$ 1,572.69	<b>-\$ 1.89</b>	<b>-0.12%</b>
		<b>-\$ 157.27</b>	<b>\$ 0.19</b>	<b>-0.12%</b>
		<b>\$ 1,415.42</b>	<b>-\$ 1.70</b>	<b>-0.12%</b>

Customer Class:

General Service Less Than 50 kW

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters (2016)	\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0116	10000	\$ 116.00	\$ 4.00	3.57%		\$ 0.0121	10000	\$ 121.00	\$ 5.00	4.31%		\$ 0.0125	10000	\$ 125.00	\$ 4.00	3.31%
Rate Rider Tax Change (2015)	\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -	
LRAM VA (2016)	\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 146.03	\$ 4.56	3.22%				\$ 151.47	\$ 5.44	3.73%				\$ 155.70	\$ 4.23	2.79%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -	
	\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	\$ 0.0015	10000	\$ 15.00	\$ -	0.00%		\$ 0.0015	10000	\$ 15.00	\$ -	0.00%		\$ 0.0015	10000	\$ 15.00	\$ -	0.00%
	\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -			\$ -	10000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0011	10000	\$ 11.00	\$ -	0.00%		\$ 0.0011	10000	\$ 11.00	\$ -	0.00%		\$ 0.0011	10000	\$ 11.00	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	393	\$ 37.33	\$ -	0.00%		\$ 0.0950	393	\$ 37.33	\$ -	0.00%		\$ 0.0950	393	\$ 37.33	\$ -	0.00%
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 180.16	\$ 4.56	2.60%				\$ 185.60	\$ 5.44	3.02%				\$ 189.83	\$ 4.23	2.28%
RTSR - Network	\$ 0.0063	10393	\$ 65.48	\$ -	0.00%		\$ 0.0063	10393	\$ 65.48	\$ -	0.00%		\$ 0.0063	10393	\$ 65.48	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 0.0051	10393	\$ 53.00	\$ -	0.00%		\$ 0.0051	10393	\$ 53.00	\$ -	0.00%		\$ 0.0051	10393	\$ 53.00	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 298.64	\$ 4.56	1.55%				\$ 304.08	\$ 5.44	1.82%				\$ 308.31	\$ 4.23	1.39%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	10393	\$ 45.73	\$ -	0.00%		\$ 0.0044	10393	\$ 45.73	\$ -	0.00%		\$ 0.0044	10393	\$ 45.73	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	10393	\$ 13.51	\$ -	0.00%		\$ 0.0013	10393	\$ 13.51	\$ -	0.00%		\$ 0.0013	10393	\$ 13.51	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	10000	\$ 70.00	\$ -	0.00%		\$ 0.0070	10000	\$ 70.00	\$ -	0.00%		\$ 0.0070	10000	\$ 70.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	6400	\$ 492.80	\$ -	0.00%		\$ 0.0770	6400	\$ 492.80	\$ -	0.00%		\$ 0.0770	6400	\$ 492.80	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	1800	\$ 205.20	\$ -	0.00%		\$ 0.1140	1800	\$ 205.20	\$ -	0.00%		\$ 0.1140	1800	\$ 205.20	\$ -	0.00%
TOU - On Peak	\$ 0.1400	1800	\$ 252.00	\$ -	0.00%		\$ 0.1400	1800	\$ 252.00	\$ -	0.00%		\$ 0.1400	1800	\$ 252.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	9400	\$ 968.20	\$ -	0.00%		\$ 0.1030	9400	\$ 968.20	\$ -	0.00%		\$ 0.1030	9400	\$ 968.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 1,378.13	\$ 4.56	0.33%				\$ 1,383.57	\$ 5.44	0.39%				\$ 1,387.80	\$ 4.23	0.31%
HST	13%		\$ 179.16	\$ 0.59	0.33%		13%		\$ 179.86	\$ 0.71	0.39%		13%		\$ 180.41	\$ 0.55	0.31%
<b>Total Bill (including HST)</b>			\$ 1,557.28	\$ 5.15	0.33%				\$ 1,563.43	\$ 6.15	0.39%				\$ 1,568.21	\$ 4.78	0.31%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>-\$ 155.73</b>	<b>-\$ 0.52</b>	<b>0.34%</b>				<b>-\$ 156.34</b>	<b>-\$ 0.61</b>	<b>0.39%</b>				<b>-\$ 156.82</b>	<b>-\$ 0.48</b>	<b>0.31%</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 1,401.55</b>	<b>\$ 4.63</b>	<b>0.33%</b>				<b>\$ 1,407.09</b>	<b>\$ 5.54</b>	<b>0.40%</b>				<b>\$ 1,411.39</b>	<b>\$ 4.30</b>	<b>0.31%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 1,396.33</b>	<b>\$ 4.56</b>	<b>0.33%</b>				<b>\$ 1,401.77</b>	<b>\$ 5.44</b>	<b>0.39%</b>				<b>\$ 1,406.00</b>	<b>\$ 4.23</b>	<b>0.30%</b>
HST	13%		\$ 181.52	\$ 0.59	0.33%		13%		\$ 182.23	\$ 0.71	0.39%		13%		\$ 182.78	\$ 0.55	0.30%
<b>Total Bill (including HST)</b>			\$ 1,577.85	\$ 5.15	0.33%				\$ 1,583.99	\$ 6.15	0.39%				\$ 1,588.77	\$ 4.78	0.30%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>-\$ 157.78</b>	<b>-\$ 0.51</b>	<b>0.32%</b>				<b>-\$ 158.40</b>	<b>-\$ 0.62</b>	<b>0.39%</b>				<b>-\$ 158.88</b>	<b>-\$ 0.48</b>	<b>0.30%</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 1,420.07</b>	<b>\$ 4.64</b>	<b>0.33%</b>				<b>\$ 1,425.59</b>	<b>\$ 5.53</b>	<b>0.39%</b>				<b>\$ 1,429.89</b>	<b>\$ 4.30</b>	<b>0.30%</b>
<b>Loss Factor (%)</b>			<b>3.93%</b>						<b>3.93%</b>						<b>3.93%</b>		
<b>Distribution Excluding Rate Riders</b>																	
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Distribution Volumetric Rate	\$ 0.0116	10000	\$ 116.00	\$ 4.00	3.57%		\$ 0.0121	10000	\$ 121.00	\$ 5.00	4.31%		\$ 0.0125	10000	\$ 125.00	\$ 4.00	3.31%
<b>"Regular" Distribution Only</b>			\$ 144.16	\$ 4.56	3.27%				\$ 149.60	\$ 5.44	3.77%				\$ 153.83	\$ 4.23	2.83%

**Appendix 2-W  
Bill Impacts**

Customer Class: **General Service Less Than 50 kW**

**General Service Less Than 50 kW**

TOU / non-TOU: **TOU**

Consumption **15,000** kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ 3.6500	1	\$ 3.65	\$ -	1	\$ -	\$ 3.65	-100.00%
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ 0.4300	1	\$ 0.43	\$ 0.43	100.00%
Rate Rider Recovery of Stranded Meters (2016)	Monthly	\$ -	1	\$ -	\$ 1.8700	1	\$ 1.87	\$ 1.87	100.00%
			1	\$ -	\$ -	1	\$ -	\$ -	
			1	\$ -	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0106	15000	\$ 159.00	\$ 0.0109	15000	\$ 163.50	\$ 4.50	2.83%
Rate Rider Tax Change (2015)	per kWh	\$ 0.0001	15000	\$ 1.50	\$ -	15000	\$ -	\$ 1.50	-100.00%
LRAM VA (2016)	per kWh	\$ -	15000	\$ -	\$ 0.0008	15000	\$ 12.00	\$ 12.00	100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kWh	\$ -	15000	\$ -	\$ 0.0002	15000	\$ 3.00	\$ 3.00	100.00%
<b>Sub-Total A (excluding pass through)</b>				<b>\$ 187.00</b>			<b>\$ 207.64</b>	<b>\$ 20.64</b>	<b>11.04%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	per kWh	\$ -	15000	\$ -	\$ 0.0005	15000	\$ 7.50	\$ 7.50	100.00%
Rate Rider CGAAP Account 1576 (2016)	per kWh	\$ -	15000	\$ -	\$ 0.0015	15000	\$ 22.50	\$ 22.50	100.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kWh	\$ 0.0156	0	\$ -	\$ -	15000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kWh	\$ -	15000	\$ -	\$ 0.0137	0	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0006	15000	\$ 9.00	\$ 0.0011	15000	\$ 16.50	\$ 7.50	83.33%
Line Losses on Cost of Power	per kWh	\$ 0.0950	516	\$ 49.02	\$ 0.0950	589.5	\$ 56.00	\$ 6.98	14.24%
Smart Meter Entry Charge	Monthly	\$ 0.7900	1	\$ 0.79	\$ 0.7900	1	\$ 0.79	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				<b>\$ 245.81</b>			<b>\$ 250.93</b>	<b>\$ 5.12</b>	<b>2.08%</b>
RTSR - Network	per kWh	\$ 0.0060	15516	\$ 93.10	\$ 0.0063	15590	\$ 98.21	\$ 5.12	5.50%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0046	15516	\$ 71.37	\$ 0.0051	15590	\$ 79.51	\$ 8.13	11.39%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				<b>\$ 410.28</b>			<b>\$ 428.65</b>	<b>\$ 18.37</b>	<b>4.48%</b>
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	15516	\$ 68.27	\$ 0.0044	15590	\$ 68.59	\$ 0.32	0.47%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	15516	\$ 20.17	\$ 0.0013	15590	\$ 20.27	\$ 0.10	0.47%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	15000	\$ 105.00	\$ 0.0070	15000	\$ 105.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	9600	\$ 739.20	\$ 0.0770	9600	\$ 739.20	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	2700	\$ 307.80	\$ 0.1140	2700	\$ 307.80	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	2700	\$ 378.00	\$ 0.1400	2700	\$ 378.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	14400	\$ 1,483.20	\$ 0.1030	14400	\$ 1,483.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				<b>\$ 2,028.97</b>			<b>\$ 2,047.76</b>	<b>\$ 18.79</b>	<b>0.93%</b>
HST		13%		\$ 263.77	13%		\$ 266.21	\$ 2.44	0.93%
<b>Total Bill (including HST)</b>				<b>\$ 2,292.74</b>			<b>\$ 2,313.97</b>	<b>\$ 21.24</b>	<b>0.93%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				<b>-\$ 229.27</b>			<b>-\$ 231.40</b>	<b>-\$ 2.13</b>	<b>0.93%</b>
<b>Total Bill on TOU (including OCEB)</b>				<b>\$ 2,063.47</b>			<b>\$ 2,082.57</b>	<b>\$ 19.11</b>	<b>0.93%</b>
<b>Total Bill on RPP (before Taxes)</b>				<b>\$ 2,087.17</b>			<b>\$ 2,105.96</b>	<b>\$ 18.79</b>	<b>0.90%</b>
HST		13%		\$ 271.33	13%		\$ 273.78	\$ 2.44	0.90%
<b>Total Bill (including HST)</b>				<b>\$ 2,358.50</b>			<b>\$ 2,379.74</b>	<b>\$ 21.24</b>	<b>0.90%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>				<b>-\$ 235.85</b>			<b>-\$ 237.97</b>	<b>-\$ 2.12</b>	<b>0.90%</b>
<b>Total Bill on RPP (including OCEB)</b>				<b>\$ 2,122.65</b>			<b>\$ 2,141.77</b>	<b>\$ 19.12</b>	<b>0.90%</b>

Loss Factor (%) **3.44%**

**3.93%**

**3.93%**

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 25.8500	1	\$ 25.85	\$ 26.8400	1	\$ 26.84	\$ 0.99	3.83%
Distribution Volumetric Rate	per kWh	\$ 0.0106	15000	\$ 159.00	\$ 0.0109	15000	\$ 163.50	\$ 4.50	2.83%
<b>"Regular" Distribution Only</b>				<b>\$ 184.85</b>			<b>\$ 190.34</b>	<b>\$ 5.49</b>	<b>2.97%</b>

2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
\$ 27.6000	1	\$ 27.60	\$ 0.76	2.83%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ 0.43	-100.00%
\$ 1.8700	1	\$ 1.87	\$ -	0.00%
\$ -	1	\$ -	\$ -	
\$ -	1	\$ -	\$ -	
\$ 0.0112	15000	\$ 168.00	\$ 4.50	2.75%
\$ -	15000	\$ -	\$ -	
\$ -	15000	\$ -	\$ 12.00	-100.00%
\$ -	15000	\$ -	\$ 3.00	-100.00%
		\$ 197.47	<b>-\$ 10.17</b>	<b>-4.90%</b>
\$ -	15000	\$ -	\$ 7.50	-100.00%
\$ -	15000	\$ -	\$ -	
\$ 0.0015	15000	\$ 22.50	\$ -	0.00%
\$ -	15000	\$ -	\$ -	
\$ -	15000	\$ -	\$ -	
\$ 0.0011	15000	\$ 16.50	\$ -	0.00%
\$ 0.0950	589.5	\$ 56.00	\$ -	0.00%
\$ 0.7900	1	\$ 0.79	\$ -	0.00%
		\$ 248.26	<b>-\$ 2.67</b>	<b>-1.06%</b>
\$ 0.0063	15590	\$ 98.21	\$ -	0.00%
\$ 0.0051	15590	\$ 79.51	\$ -	0.00%
		\$ 425.98	<b>-\$ 2.67</b>	<b>-0.62%</b>
\$ 0.0044	15590	\$ 68.59	\$ -	0.00%
\$ 0.0013	15590	\$ 20.27	\$ -	0.00%
\$ 0.2500	1	\$ 0.25	\$ -	0.00%
\$ 0.0070	15000	\$ 105.00	\$ -	0.00%
\$ 0.0770	9600	\$ 739.20	\$ -	0.00%
\$ 0.1140	2700	\$ 307.80	\$ -	0.00%
\$ 0.1400	2700	\$ 378.00	\$ -	0.00%
\$ 0.0880	600	\$ 52.80	\$ -	0.00%
\$ 0.1030	14400	\$ 1,483.20	\$ -	0.00%
13%		\$ 2,045.09	<b>-\$ 2.67</b>	<b>-0.13%</b>
		\$ 265.86	\$ 0.35	-0.13%
		\$ 2,310.96	<b>-\$ 3.02</b>	<b>-0.13%</b>
		<b>-\$ 231.10</b>	<b>\$ 0.30</b>	<b>-0.13%</b>
		<b>\$ 2,079.86</b>	<b>-\$ 2.72</b>	<b>-0.13%</b>
		\$ 2,103.29	<b>-\$ 2.67</b>	<b>-0.13%</b>
13%		\$ 273.43	\$ 0.35	-0.13%
		\$ 2,376.72	<b>-\$ 3.02</b>	<b>-0.13%</b>
		<b>-\$ 237.67</b>	<b>\$ 0.30</b>	<b>-0.13%</b>
		<b>\$ 2,139.05</b>	<b>-\$ 2.72</b>	<b>-0.13%</b>

Customer Class:

General Service Less Than 50 kW

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters (2016)	\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%		\$ 1.8700	1	\$ 1.87	\$ -	0.00%
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 0.0116	15000	\$ 174.00	\$ 6.00	3.57%		\$ 0.0121	15000	\$ 181.50	\$ 7.50	4.31%		\$ 0.0125	15000	\$ 187.50	\$ 6.00	3.31%
Rate Rider Tax Change (2015)	\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -	
LRAM VA (2016)	\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 204.03	\$ 6.56	3.32%				\$ 211.97	\$ 7.94	3.89%				\$ 218.20	\$ 6.23	2.94%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -	
			\$ -	\$ -					\$ -	\$ -					\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	\$ 0.0015	15000	\$ 22.50	\$ -	0.00%		\$ 0.0015	15000	\$ 22.50	\$ -	0.00%		\$ 0.0015	15000	\$ 22.50	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -			\$ -	15000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.0011	15000	\$ 16.50	\$ -	0.00%		\$ 0.0011	15000	\$ 16.50	\$ -	0.00%		\$ 0.0011	15000	\$ 16.50	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	589.5	\$ 56.00	\$ -	0.00%		\$ 0.0950	589.5	\$ 56.00	\$ -	0.00%		\$ 0.0950	589.5	\$ 56.00	\$ -	0.00%
Smart Meter Entity Charge	\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%		\$ 0.7900	1	\$ 0.79	\$ -	0.00%
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 254.82	\$ 6.56	2.64%				\$ 262.76	\$ 7.94	3.12%				\$ 268.99	\$ 6.23	2.37%
RTSR - Network	\$ 0.0063	15590	\$ 98.21	\$ -	0.00%		\$ 0.0063	15590	\$ 98.21	\$ -	0.00%		\$ 0.0063	15590	\$ 98.21	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 0.0051	15590	\$ 79.51	\$ -	0.00%		\$ 0.0051	15590	\$ 79.51	\$ -	0.00%		\$ 0.0051	15590	\$ 79.51	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 432.54	\$ 6.56	1.54%				\$ 440.48	\$ 7.94	1.84%				\$ 446.71	\$ 6.23	1.41%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	15590	\$ 68.59	\$ -	0.00%		\$ 0.0044	15590	\$ 68.59	\$ -	0.00%		\$ 0.0044	15590	\$ 68.59	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	15590	\$ 20.27	\$ -	0.00%		\$ 0.0013	15590	\$ 20.27	\$ -	0.00%		\$ 0.0013	15590	\$ 20.27	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	15000	\$ 105.00	\$ -	0.00%		\$ 0.0070	15000	\$ 105.00	\$ -	0.00%		\$ 0.0070	15000	\$ 105.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	9600	\$ 739.20	\$ -	0.00%		\$ 0.0770	9600	\$ 739.20	\$ -	0.00%		\$ 0.0770	9600	\$ 739.20	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	2700	\$ 307.80	\$ -	0.00%		\$ 0.1140	2700	\$ 307.80	\$ -	0.00%		\$ 0.1140	2700	\$ 307.80	\$ -	0.00%
TOU - On Peak	\$ 0.1400	2700	\$ 378.00	\$ -	0.00%		\$ 0.1400	2700	\$ 378.00	\$ -	0.00%		\$ 0.1400	2700	\$ 378.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	14400	\$ 1,483.20	\$ -	0.00%		\$ 0.1030	14400	\$ 1,483.20	\$ -	0.00%		\$ 0.1030	14400	\$ 1,483.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 2,051.65	\$ 6.56	0.32%				\$ 2,059.59	\$ 7.94	0.39%				\$ 2,065.82	\$ 6.23	0.30%
HST	13%		\$ 266.71	\$ 0.85	0.32%		13%		\$ 267.75	\$ 1.03	0.39%		13%		\$ 268.56	\$ 0.81	0.30%
<b>Total Bill (including HST)</b>			\$ 2,318.37	\$ 7.41	0.32%				\$ 2,327.34	\$ 8.97	0.39%				\$ 2,334.38	\$ 7.04	0.30%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ 231.84	\$ 0.74	0.32%				\$ 232.73	\$ 0.89	0.38%				\$ 233.44	\$ 0.71	0.31%
<b>Total Bill on TOU (including OCEB)</b>			\$ 2,086.53	\$ 6.67	0.32%				\$ 2,094.61	\$ 8.08	0.39%				\$ 2,100.94	\$ 6.33	0.30%
<b>Total Bill on RPP (before Taxes)</b>			\$ 2,109.85	\$ 6.56	0.31%				\$ 2,117.79	\$ 7.94	0.38%				\$ 2,124.02	\$ 6.23	0.29%
HST	13%		\$ 274.28	\$ 0.85	0.31%		13%		\$ 275.31	\$ 1.03	0.38%		13%		\$ 276.12	\$ 0.81	0.29%
<b>Total Bill (including HST)</b>			\$ 2,384.13	\$ 7.41	0.31%				\$ 2,393.11	\$ 8.97	0.38%				\$ 2,400.15	\$ 7.04	0.29%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ 238.41	\$ 0.74	0.31%				\$ 239.31	\$ 0.90	0.38%				\$ 240.01	\$ 0.70	0.29%
<b>Total Bill on RPP (including OCEB)</b>			\$ 2,145.72	\$ 6.67	0.31%				\$ 2,153.80	\$ 8.07	0.38%				\$ 2,160.14	\$ 6.34	0.29%
<b>Loss Factor (%)</b>			3.93%						3.93%						3.93%		
<b>Distribution Excluding Rate Riders</b>																	
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2020 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 28.1600	1	\$ 28.16	\$ 0.56	2.03%		\$ 28.6000	1	\$ 28.60	\$ 0.44	1.56%		\$ 28.8300	1	\$ 28.83	\$ 0.23	0.80%
Distribution Volumetric Rate	\$ 0.0116	15000	\$ 174.00	\$ 6.00	3.57%		\$ 0.0121	15000	\$ 181.50	\$ 7.50	4.31%		\$ 0.0125	15000	\$ 187.50	\$ 6.00	3.31%
<b>"Regular" Distribution Only</b>			\$ 202.16	\$ 6.56	3.35%				\$ 210.10	\$ 7.94	3.93%				\$ 216.33	\$ 6.23	2.97%

# Appendix 2-W Bill Impacts

Customer Class: **General Service 50 to 4,999 kW**

**General Service 50 to 4,999 kW**

TOU / non-TOU: **TOU**

Consumption Load **40,000 kWh** ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 280.0900	1	\$ 280.09	\$ 314.2800	1	\$ 314.28	\$ 34.19	12.21%	\$ 322.9900	1	\$ 322.99	\$ 8.71	2.77%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kW	\$ 2.0063	60	\$ 120.38	\$ 2.0517	60	\$ 123.10	\$ 2.72	2.26%	\$ 2.1314	60	\$ 127.88	\$ 4.78	3.88%
Rate Rider Tax Change (2015)	per kW	\$ 0.0099	60	\$ 0.59	\$ -	60	\$ -	\$ 0.59	-100.00%	\$ -	60	\$ -	\$ -	
LRAM VA (2016)	per kW	\$ -	60	\$ -	\$ 0.0293	60	\$ 1.76	\$ 1.76	100.00%	\$ -	60	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	per kW	\$ -	60	\$ -	\$ 0.0380	60	\$ 2.28	\$ 2.28	100.00%	\$ -	60	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>				\$ 399.87			\$ 441.42	\$ 41.55	10.39%			\$ 450.87	\$ 9.45	2.14%
Deferral/Variance Account Disposition Rate Rider (2016)	per kW	\$ -	60	\$ -	\$ 0.7402	60	\$ 44.41	\$ 44.41	100.00%	\$ -	60	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	per kW	\$ -	60	\$ -	\$ 1.1043	60	\$ 66.26	\$ 66.26	100.00%	\$ -	60	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kW	\$ -	60	\$ -	\$ 0.2245	60	\$ 13.47	\$ 13.47	100.00%	\$ 0.2245	60	\$ 13.47	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	per kW	\$ 5.7342		\$ -	\$ -	60	\$ -	\$ -		\$ -	60	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	per kW	\$ -	60	\$ -	\$ 4.9999		\$ -	\$ -		\$ -	60	\$ -	\$ -	
Low Voltage Service Charge	per kW	\$ 0.2520	60	\$ 15.12	\$ 0.4669	60	\$ 28.01	\$ 12.89	85.28%	\$ 0.4669	60	\$ 28.01	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	1,376	\$ 130.72	\$ 0.0950	1572	\$ 149.34	\$ 18.62	14.24%	\$ 0.0950	1572	\$ 149.34	\$ -	0.00%
Smart Meter Entity Charge		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 545.71			\$ 583.46	\$ 37.74	6.92%			\$ 614.76	\$ 31.30	5.36%
RTSR - Network	per kW	\$ 2.6313	60	\$ 157.88	\$ 2.7797	60	\$ 166.78	\$ 8.90	5.64%	\$ 2.7797	60	\$ 166.78	\$ -	0.00%
RTSR - Line and Transformation Connection	per kW	\$ 2.0128	60	\$ 120.77	\$ 2.2225	60	\$ 133.35	\$ 12.58	10.42%	\$ 2.2225	60	\$ 133.35	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 824.36			\$ 883.59	\$ 59.23	7.18%			\$ 914.89	\$ 31.30	3.54%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	41376	\$ 182.05	\$ 0.0044	41572	\$ 182.92	\$ 0.86	0.47%	\$ 0.0044	41572	\$ 182.92	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	41376	\$ 53.79	\$ 0.0013	41572	\$ 54.04	\$ 0.25	0.47%	\$ 0.0013	41572	\$ 54.04	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	40000	\$ 280.00	\$ 0.0070	40000	\$ 280.00	\$ -	0.00%	\$ 0.0070	40000	\$ 280.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	25600	\$ 1,971.20	\$ 0.0770	25600	\$ 1,971.20	\$ -	0.00%	\$ 0.0770	25600	\$ 1,971.20	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	7200	\$ 820.80	\$ 0.1140	7200	\$ 820.80	\$ -	0.00%	\$ 0.1140	7200	\$ 820.80	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	7200	\$ 1,008.00	\$ 0.1400	7200	\$ 1,008.00	\$ -	0.00%	\$ 0.1400	7200	\$ 1,008.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	39400	\$ 4,058.20	\$ 0.1030	39400	\$ 4,058.20	\$ -	0.00%	\$ 0.1030	39400	\$ 4,058.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$ 5,140.45			\$ 5,200.80	\$ 60.35	1.17%			\$ 5,232.10	\$ 31.30	0.60%
HST		13%		\$ 668.26	13%		\$ 676.10	\$ 7.85	1.17%	13%		\$ 680.17	\$ 4.07	0.60%
<b>Total Bill (including HST)</b>				\$ 5,808.71			\$ 5,876.90	\$ 68.19	1.17%			\$ 5,912.27	\$ 35.37	0.60%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>				\$ 5,808.71			\$ 5,876.90	\$ -				\$ 5,912.27	\$ -	
<b>Total Bill on TOU (including OCEB)</b>				\$ 5,808.71			\$ 5,876.90	\$ 68.19	1.17%			\$ 5,912.27	\$ 35.37	0.60%
<b>Total Bill on RPP (before Taxes)</b>				\$ 5,398.65			\$ 5,459.00	\$ 60.35	1.12%			\$ 5,490.30	\$ 31.30	0.57%
HST		13%		\$ 701.82	13%		\$ 709.67	\$ 7.85	1.12%	13%		\$ 713.74	\$ 4.07	0.57%
<b>Total Bill (including HST)</b>				\$ 6,100.48			\$ 6,168.67	\$ 68.19	1.12%			\$ 6,204.04	\$ 35.37	0.57%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>				\$ 6,100.48			\$ 6,168.67	\$ -				\$ 6,204.04	\$ -	
<b>Total Bill on RPP (including OCEB)</b>				\$ 6,100.48			\$ 6,168.67	\$ 68.19	1.12%			\$ 6,204.04	\$ 35.37	0.57%

Loss Factor (%) **3.44%**

**3.93%**

**3.93%**

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 280.09	1	\$ 280.09	\$ 314.28	1	\$ 314.28	\$ 34.19	12.21%	\$ 322.99	1	\$ 322.99	\$ 8.71	2.77%
Distribution Volumetric Rate	per kW	\$ 2.0063	60	\$ 120.38	\$ 2.0517	60	\$ 123.10	\$ 2.72	2.26%	\$ 2.1314	60	\$ 127.88	\$ 4.78	3.88%
<b>"Regular" Distribution Only</b>				\$ 400.47			\$ 437.38	\$ 36.91	9.22%			\$ 450.87	\$ 13.49	3.08%

Customer Class:

General Service 50 to 4,999 kW

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 330.5400	1	\$ 330.54	\$ 7.55	2.34%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.2143	60	\$ 132.86	\$ 4.97	3.89%
Rate Rider Tax Change (2015)	\$ -	60	\$ -	\$ -	
LRAM VA (2016)	\$ -	60	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	60	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 463.40	\$ 12.52	2.78%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	60	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	60	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.2245	60	-\$ 13.47	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	60	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	60	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	60	\$ 28.01	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	1572	\$ 149.34	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 627.28	\$ 12.52	2.04%
RTSR - Network	\$ 2.7797	60	\$ 166.78	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	60	\$ 133.35	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 927.41	\$ 12.52	1.37%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	41572	\$ 182.92	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	41572	\$ 54.04	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	40000	\$ 280.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	25600	\$ 1,971.20	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	7200	\$ 820.80	\$ -	0.00%
TOU - On Peak	\$ 0.1400	7200	\$ 1,008.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	39400	\$ 4,058.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 5,244.62	\$ 12.52	0.24%
HST	13%		\$ 681.80	\$ 1.63	0.24%
<b>Total Bill (including HST)</b>			\$ 5,926.43	\$ 14.15	0.24%
<i>Ontario Clean Energy Benefit<sup>1</sup></i>			\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>			\$ 5,926.43	\$ 14.15	0.24%
<b>Total Bill on RPP (before Taxes)</b>			\$ 5,502.82	\$ 12.52	0.23%
HST	13%		\$ 715.37	\$ 1.63	0.23%
<b>Total Bill (including HST)</b>			\$ 6,218.19	\$ 14.15	0.23%
<i>Ontario Clean Energy Benefit<sup>1</sup></i>			\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>			\$ 6,218.19	\$ 14.15	0.23%

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 330.54	1	\$ 330.54	\$ 7.55	2.34%
Distribution Volumetric Rate	\$ 2.2143	60	\$ 132.86	\$ 4.97	3.89%
<b>"Regular" Distribution Only</b>			\$ 463.40	\$ 12.52	2.78%

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 337.9000	1	\$ 337.90	\$ 7.36	2.23%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.2986	60	\$ 137.92	\$ 5.06	3.81%
Rate Rider Tax Change (2015)	\$ -	60	\$ -	\$ -	
LRAM VA (2016)	\$ -	60	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	60	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 475.82	\$ 12.42	2.68%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	60	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	60	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.2245	60	-\$ 13.47	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	60	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	60	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	60	\$ 28.01	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	1572	\$ 149.34	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 639.70	\$ 12.42	1.98%
RTSR - Network	\$ 2.7797	60	\$ 166.78	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	60	\$ 133.35	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 939.83	\$ 12.42	1.34%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	41572	\$ 182.92	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	41572	\$ 54.04	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	40000	\$ 280.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	25600	\$ 1,971.20	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	7200	\$ 820.80	\$ -	0.00%
TOU - On Peak	\$ 0.1400	7200	\$ 1,008.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	39400	\$ 4,058.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 5,257.04	\$ 12.42	0.24%
HST	13%		\$ 683.42	\$ 1.61	0.24%
<b>Total Bill (including HST)</b>			\$ 5,940.46	\$ 14.03	0.24%
<i>Ontario Clean Energy Benefit<sup>1</sup></i>			\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>			\$ 5,940.46	\$ 14.03	0.24%
<b>Total Bill on RPP (before Taxes)</b>			\$ 5,515.24	\$ 12.42	0.23%
HST	13%		\$ 716.98	\$ 1.61	0.23%
<b>Total Bill (including HST)</b>			\$ 6,232.22	\$ 14.03	0.23%
<i>Ontario Clean Energy Benefit<sup>1</sup></i>			\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>			\$ 6,232.22	\$ 14.03	0.23%

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 337.9000	1	\$ 337.90	\$ 7.36	2.23%
Distribution Volumetric Rate	\$ 2.2986	60	\$ 137.92	\$ 5.06	3.81%
<b>"Regular" Distribution Only</b>			\$ 475.82	\$ 12.42	2.68%

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 342.7500	1	\$ 342.75	\$ 4.85	1.44%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.3661	60	\$ 141.97	\$ 4.05	2.94%
Rate Rider Tax Change (2015)	\$ -	60	\$ -	\$ -	
LRAM VA (2016)	\$ -	60	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	60	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 484.72	\$ 8.90	1.87%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	60	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	60	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.2245	60	-\$ 13.47	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	60	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	60	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	60	\$ 28.01	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	1572	\$ 149.34	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 648.60	\$ 8.90	1.39%
RTSR - Network	\$ 2.7797	60	\$ 166.78	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	60	\$ 133.35	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 948.73	\$ 8.90	0.95%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	41572	\$ 182.92	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	41572	\$ 54.04	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	40000	\$ 280.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	25600	\$ 1,971.20	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	7200	\$ 820.80	\$ -	0.00%
TOU - On Peak	\$ 0.1400	7200	\$ 1,008.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	39400	\$ 4,058.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 5,265.94	\$ 8.90	0.17%
HST	13%		\$ 684.57	\$ 1.16	0.17%
<b>Total Bill (including HST)</b>			\$ 5,950.51	\$ 10.06	0.17%
<i>Ontario Clean Energy Benefit<sup>1</sup></i>			\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>			\$ 5,950.51	\$ 10.06	0.17%
<b>Total Bill on RPP (before Taxes)</b>			\$ 5,524.14	\$ 8.90	0.16%
HST	13%		\$ 718.14	\$ 1.16	0.16%
<b>Total Bill (including HST)</b>			\$ 6,242.28	\$ 10.06	0.16%
<i>Ontario Clean Energy Benefit<sup>1</sup></i>			\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>			\$ 6,242.28	\$ 10.06	0.16%

# Appendix 2-W Bill Impacts

Customer Class: **General Service 50 to 4,999 kW**

**General Service 50 to 4,999 kW**

TOU / non-TOU: **TOU**

Consumption Load **70,000 kWh** ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 280.0900	1	\$ 280.09	\$ 314.2800	1	\$ 314.28	\$ 34.19	12.21%	\$ 322.9900	1	\$ 322.99	\$ 8.71	2.77%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kW	\$ 2.0063	100	\$ 200.63	\$ 2.0517	100	\$ 205.17	\$ 4.54	2.26%	\$ 2.1314	100	\$ 213.14	\$ 7.97	3.88%
Rate Rider Tax Change (2015)	per kW	\$ 0.0099	100	\$ 0.99	\$ -	100	\$ -	\$ 0.99	-100.00%	\$ -	100	\$ -	\$ -	
LRAM VA (2016)	per kW	\$ -	100	\$ -	\$ 0.0293	100	\$ 2.93	\$ 2.93	100.00%	\$ -	100	\$ -	\$ -2.93	-100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kW	\$ -	100	\$ -	\$ 0.0380	100	\$ 3.80	\$ 3.80	100.00%	\$ -	100	\$ -	\$ -3.80	-100.00%
<b>Sub-Total A (excluding pass through)</b>				\$ 479.73			\$ 526.18	\$ 46.45	9.68%			\$ 536.13	\$ 9.95	1.89%
Deferral/Variance Account Disposition Rate Rider (2016)	per kW	\$ -	100	\$ -	\$ 0.7402	100	\$ 74.02	\$ 74.02	100.00%	\$ -	100	\$ -	\$ -74.02	-100.00%
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	per kW	\$ -	100	\$ -	\$ 1.1043	100	\$ 110.43	\$ 110.43	100.00%	\$ -	100	\$ -	\$ 110.43	-100.00%
Rate Rider CGAAP Account 1576 (2016)	per kW	\$ -	100	\$ -	\$ 0.2245	100	\$ 22.45	\$ 22.45	100.00%	\$ 0.2245	100	\$ 22.45	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	per kW	\$ 5.7342		\$ -	\$ -	100	\$ -	\$ -		\$ -	100	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	per kW	\$ -	100	\$ -	\$ 4.9999		\$ -	\$ -		\$ -	100	\$ -	\$ -	
Low Voltage Service Charge	per kW	\$ 0.2520	100	\$ 25.20	\$ 0.4669	100	\$ 46.69	\$ 21.49	85.28%	\$ 0.4669	100	\$ 46.69	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	2,408	\$ 228.76	\$ 0.0950	2751	\$ 261.34	\$ 32.58	14.24%	\$ 0.0950	2751	\$ 261.34	\$ -	0.00%
Smart Meter Entity Charge		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 733.69			\$ 775.35	\$ 41.66	5.68%			\$ 821.71	\$ 46.36	5.98%
RTSR - Network	per kW	\$ 2.6313	100	\$ 263.13	\$ 2.7797	100	\$ 277.97	\$ 14.84	5.64%	\$ 2.7797	100	\$ 277.97	\$ -	0.00%
RTSR - Line and Transformation Connection	per kW	\$ 2.0128	100	\$ 201.28	\$ 2.2225	100	\$ 222.25	\$ 20.97	10.42%	\$ 2.2225	100	\$ 222.25	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 1,198.10			\$ 1,275.58	\$ 77.47	6.47%			\$ 1,321.94	\$ 46.36	3.63%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	72408	\$ 318.60	\$ 0.0044	72751	\$ 320.10	\$ 1.51	0.47%	\$ 0.0044	72751	\$ 320.10	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	72408	\$ 94.13	\$ 0.0013	72751	\$ 94.58	\$ 0.45	0.47%	\$ 0.0013	72751	\$ 94.58	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	70000	\$ 490.00	\$ 0.0070	70000	\$ 490.00	\$ -	0.00%	\$ 0.0070	70000	\$ 490.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	44800	\$ 3,449.60	\$ 0.0770	44800	\$ 3,449.60	\$ -	0.00%	\$ 0.0770	44800	\$ 3,449.60	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	12600	\$ 1,436.40	\$ 0.1140	12600	\$ 1,436.40	\$ -	0.00%	\$ 0.1140	12600	\$ 1,436.40	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	12600	\$ 1,764.00	\$ 0.1400	12600	\$ 1,764.00	\$ -	0.00%	\$ 0.1400	12600	\$ 1,764.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	69400	\$ 7,148.20	\$ 0.1030	69400	\$ 7,148.20	\$ -	0.00%	\$ 0.1030	69400	\$ 7,148.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$ 8,751.08			\$ 8,830.51	\$ 79.43	0.91%			\$ 8,876.87	\$ 46.36	0.52%
HST		13%		\$ 1,137.64	13%		\$ 1,147.97	\$ 10.33	0.91%	13%		\$ 1,153.99	\$ 6.03	0.52%
<b>Total Bill (including HST)</b>				\$ 9,888.72			\$ 9,978.47	\$ 89.76	0.91%			\$ 10,030.86	\$ 52.39	0.52%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>				\$ -			\$ -	\$ -				\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>				\$ 9,888.72			\$ 9,978.47	\$ 89.76	0.91%			\$ 10,030.86	\$ 52.39	0.52%
<b>Total Bill on RPP (before Taxes)</b>				\$ 9,248.28			\$ 9,328.71	\$ 79.43	0.86%			\$ 9,375.07	\$ 46.36	0.50%
HST		13%		\$ 1,202.41	13%		\$ 1,212.73	\$ 10.33	0.86%	13%		\$ 1,218.76	\$ 6.03	0.50%
<b>Total Bill (including HST)</b>				\$ 10,451.68			\$ 10,541.44	\$ 89.76	0.86%			\$ 10,593.82	\$ 52.39	0.50%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>				\$ -			\$ -	\$ -				\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>				\$ 10,451.68			\$ 10,541.44	\$ 89.76	0.86%			\$ 10,593.82	\$ 52.39	0.50%

Loss Factor (%) **3.44%**

**3.93%**

**3.93%**

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 280.09	1	\$ 280.09	\$ 314.28	1	\$ 314.28	\$ 34.19	12.21%	\$ 322.99	1	\$ 322.99	\$ 8.71	2.77%
Distribution Volumetric Rate	per kW	\$ 2.0063	100	\$ 200.63	\$ 2.0517	100	\$ 205.17	\$ 4.54	2.26%	\$ 2.1314	100	\$ 213.14	\$ 7.97	3.88%
<b>"Regular" Distribution Only</b>				\$ 480.72			\$ 519.45	\$ 38.73	8.06%			\$ 536.13	\$ 16.68	3.21%

Customer Class:

General Service 50 to 4,999 kW

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 330.5400	1	\$ 330.54	\$ 7.55	2.34%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.2143	100	\$ 221.43	\$ 8.29	3.89%
Rate Rider Tax Change (2015)	\$ -	100	\$ -	\$ -	
LRAM VA (2016)	\$ -	100	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	100	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 551.97</b>	<b>\$ 15.84</b>	<b>2.95%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	100	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	100	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.2245	100	-\$ 22.45	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	100	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	100	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	100	\$ 46.69	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	2751	\$ 261.34	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 837.55</b>	<b>\$ 15.84</b>	<b>1.93%</b>
RTSR - Network	\$ 2.7797	100	\$ 277.97	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	100	\$ 222.25	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 1,337.78</b>	<b>\$ 15.84</b>	<b>1.20%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	72751	\$ 320.10	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	72751	\$ 94.58	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	70000	\$ 490.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	44800	\$ 3,449.60	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	12600	\$ 1,436.40	\$ -	0.00%
TOU - On Peak	\$ 0.1400	12600	\$ 1,764.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	69400	\$ 7,148.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 8,892.71</b>	<b>\$ 15.84</b>	<b>0.18%</b>
HST	13%		\$ 1,156.05	\$ 2.06	0.18%
<b>Total Bill (including HST)</b>			<b>\$ 10,048.76</b>	<b>\$ 17.90</b>	<b>0.18%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.18%</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 10,048.76</b>	<b>\$ 17.90</b>	<b>0.18%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 9,390.91</b>	<b>\$ 15.84</b>	<b>0.17%</b>
HST	13%		\$ 1,220.82	\$ 2.06	0.17%
<b>Total Bill (including HST)</b>			<b>\$ 10,611.72</b>	<b>\$ 17.90</b>	<b>0.17%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.17%</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 10,611.72</b>	<b>\$ 17.90</b>	<b>0.17%</b>

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 330.54	1	\$ 330.54	\$ 7.55	2.34%
Distribution Volumetric Rate	\$ 2.2143	100	\$ 221.43	\$ 8.29	3.89%
<b>"Regular" Distribution Only</b>			<b>\$ 551.97</b>	<b>\$ 15.84</b>	<b>2.95%</b>

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 337.9000	1	\$ 337.90	\$ 7.36	2.23%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.2986	100	\$ 229.86	\$ 8.43	3.81%
Rate Rider Tax Change (2015)	\$ -	100	\$ -	\$ -	
LRAM VA (2016)	\$ -	100	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	100	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 567.76</b>	<b>\$ 15.79</b>	<b>2.86%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	100	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	100	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.2245	100	-\$ 22.45	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	100	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	100	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	100	\$ 46.69	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	2751	\$ 261.34	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 853.34</b>	<b>\$ 15.79</b>	<b>1.89%</b>
RTSR - Network	\$ 2.7797	100	\$ 277.97	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	100	\$ 222.25	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 1,353.57</b>	<b>\$ 15.79</b>	<b>1.18%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	72751	\$ 320.10	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	72751	\$ 94.58	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	70000	\$ 490.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	44800	\$ 3,449.60	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	12600	\$ 1,436.40	\$ -	0.00%
TOU - On Peak	\$ 0.1400	12600	\$ 1,764.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	69400	\$ 7,148.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 8,908.50</b>	<b>\$ 15.79</b>	<b>0.18%</b>
HST	13%		\$ 1,158.10	\$ 2.05	0.18%
<b>Total Bill (including HST)</b>			<b>\$ 10,066.60</b>	<b>\$ 17.84</b>	<b>0.18%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.18%</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 10,066.60</b>	<b>\$ 17.84</b>	<b>0.18%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 9,406.70</b>	<b>\$ 15.79</b>	<b>0.17%</b>
HST	13%		\$ 1,222.67	\$ 2.05	0.17%
<b>Total Bill (including HST)</b>			<b>\$ 10,629.37</b>	<b>\$ 17.84</b>	<b>0.17%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.17%</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 10,629.37</b>	<b>\$ 17.84</b>	<b>0.17%</b>

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 337.9000	1	\$ 337.90	\$ 7.36	2.23%
Distribution Volumetric Rate	\$ 2.2986	100	\$ 229.86	\$ 8.43	3.81%
<b>"Regular" Distribution Only</b>			<b>\$ 567.76</b>	<b>\$ 15.79</b>	<b>2.86%</b>

	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 342.7500	1	\$ 342.75	\$ 4.85	1.44%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.3661	100	\$ 236.61	\$ 6.75	2.94%
Rate Rider Tax Change (2015)	\$ -	100	\$ -	\$ -	
LRAM VA (2016)	\$ -	100	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	100	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 579.36</b>	<b>\$ 11.60</b>	<b>2.04%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	100	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	100	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.2245	100	-\$ 22.45	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	100	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	100	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	100	\$ 46.69	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	2751	\$ 261.34	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 864.94</b>	<b>\$ 11.60</b>	<b>1.36%</b>
RTSR - Network	\$ 2.7797	100	\$ 277.97	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	100	\$ 222.25	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 1,365.17</b>	<b>\$ 11.60</b>	<b>0.86%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	72751	\$ 320.10	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	72751	\$ 94.58	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	70000	\$ 490.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	44800	\$ 3,449.60	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	12600	\$ 1,436.40	\$ -	0.00%
TOU - On Peak	\$ 0.1400	12600	\$ 1,764.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	69400	\$ 7,148.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 8,920.10</b>	<b>\$ 11.60</b>	<b>0.13%</b>
HST	13%		\$ 1,159.61	\$ 1.51	0.13%
<b>Total Bill (including HST)</b>			<b>\$ 10,079.71</b>	<b>\$ 13.11</b>	<b>0.13%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.13%</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 10,079.71</b>	<b>\$ 13.11</b>	<b>0.13%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 9,418.30</b>	<b>\$ 11.60</b>	<b>0.12%</b>
HST	13%		\$ 1,224.38	\$ 1.51	0.12%
<b>Total Bill (including HST)</b>			<b>\$ 10,642.67</b>	<b>\$ 13.11</b>	<b>0.12%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.12%</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 10,642.67</b>	<b>\$ 13.11</b>	<b>0.12%</b>

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 342.7500	1	\$ 342.75	\$ 4.85	1.44%
Distribution Volumetric Rate	\$ 2.3661	100	\$ 236.61	\$ 6.75	2.94%
<b>"Regular" Distribution Only</b>			<b>\$ 579.36</b>	<b>\$ 11.60</b>	<b>2.04%</b>

# Appendix 2-W Bill Impacts

Customer Class: **General Service 50 to 4,999 kW**

**General Service 50 to 4,999 kW**

TOU / non-TOU: **TOU**

Consumption Load **350,000 kWh** ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 280.0900	1	\$ 280.09	\$ 314.2800	1	\$ 314.28	\$ 34.19	12.21%	\$ 322.9900	1	\$ 322.99	\$ 8.71	2.77%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kW	\$ 2.0063	500	\$ 1,003.15	\$ 2.0517	500	\$ 1,025.85	\$ 22.70	2.26%	\$ 2.1314	500	\$ 1,065.70	\$ 39.85	3.88%
Rate Rider Tax Change (2015)	per kW	\$ 0.0099	500	\$ 4.95	\$ -	500	\$ -	\$ 4.95	-100.00%	\$ -	500	\$ -	\$ -	
LRAM VA (2016)	per kW	\$ -	500	\$ -	\$ 0.0293	500	\$ 14.65	\$ 14.65	100.00%	\$ -	500	\$ -	\$ -14.65	-100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kW	\$ -	500	\$ -	\$ 0.0380	500	\$ 19.00	\$ 19.00	100.00%	\$ -	500	\$ -	\$ -19.00	-100.00%
<b>Sub-Total A (excluding pass through)</b>				\$ 1,278.29			\$ 1,373.78	\$ 95.49	7.47%			\$ 1,388.69	\$ 14.91	1.09%
Deferral/Variance Account Disposition Rate Rider (2016)	per kW	\$ -	500	\$ -	\$ 0.7402	500	\$ 370.10	\$ 370.10	100.00%	\$ -	500	\$ -	\$ -370.10	-100.00%
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	per kW	\$ -	500	\$ -	\$ 1.1043	500	\$ 552.15	\$ 552.15	100.00%	\$ -	500	\$ -	\$ 552.15	-100.00%
Rate Rider CGAAP Account 1576 (2016)	per kW	\$ -	500	\$ -	\$ 0.2245	500	\$ 112.25	\$ 112.25	100.00%	\$ 0.2245	500	\$ 112.25	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	per kW	\$ 5.7342		\$ -	\$ -	500	\$ -	\$ -		\$ -	500	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	per kW	\$ -	500	\$ -	\$ 4.9999		\$ -	\$ -		\$ -	500	\$ -	\$ -	
Low Voltage Service Charge	per kW	\$ 0.2520	500	\$ 126.00	\$ 0.4669	500	\$ 233.45	\$ 107.45	85.28%	\$ 0.4669	500	\$ 233.45	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	12,040	\$ 1,143.80	\$ 0.0950	13755	\$ 1,306.72	\$ 162.92	14.24%	\$ 0.0950	13755	\$ 1,306.72	\$ -	0.00%
Smart Meter Entity Charge		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 2,548.09			\$ 2,619.65	\$ 71.56	2.81%			\$ 2,816.61	\$ 196.96	7.52%
RTSR - Network	per kW	\$ 2.6313	500	\$ 1,315.65	\$ 2.7797	500	\$ 1,389.85	\$ 74.20	5.64%	\$ 2.7797	500	\$ 1,389.85	\$ -	0.00%
RTSR - Line and Transformation Connection	per kW	\$ 2.0128	500	\$ 1,006.40	\$ 2.2225	500	\$ 1,111.25	\$ 104.85	10.42%	\$ 2.2225	500	\$ 1,111.25	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 4,870.14			\$ 5,120.75	\$ 250.61	5.15%			\$ 5,317.71	\$ 196.96	3.85%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	362040	\$ 1,592.98	\$ 0.0044	363755	\$ 1,600.52	\$ 7.55	0.47%	\$ 0.0044	363755	\$ 1,600.52	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	362040	\$ 470.65	\$ 0.0013	363755	\$ 472.88	\$ 2.23	0.47%	\$ 0.0013	363755	\$ 472.88	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	350000	\$ 2,450.00	\$ 0.0070	350000	\$ 2,450.00	\$ -	0.00%	\$ 0.0070	350000	\$ 2,450.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	224000	\$ 17,248.00	\$ 0.0770	224000	\$ 17,248.00	\$ -	0.00%	\$ 0.0770	224000	\$ 17,248.00	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	63000	\$ 7,182.00	\$ 0.1140	63000	\$ 7,182.00	\$ -	0.00%	\$ 0.1140	63000	\$ 7,182.00	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	63000	\$ 8,820.00	\$ 0.1400	63000	\$ 8,820.00	\$ -	0.00%	\$ 0.1400	63000	\$ 8,820.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	349400	\$ 35,988.20	\$ 0.1030	349400	\$ 35,988.20	\$ -	0.00%	\$ 0.1030	349400	\$ 35,988.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$ 42,634.02			\$ 42,894.41	\$ 260.39	0.61%			\$ 43,091.37	\$ 196.96	0.46%
HST		13%		\$ 5,542.42	13%		\$ 5,576.27	\$ 33.85	0.61%	13%		\$ 5,601.88	\$ 25.60	0.46%
<b>Total Bill (including HST)</b>				\$ 48,176.44			\$ 48,470.68	\$ 294.24	0.61%			\$ 48,693.25	\$ 222.56	0.46%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>				\$ -			\$ -	\$ -				\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>				\$ 48,176.44			\$ 48,470.68	\$ 294.24	0.61%			\$ 48,693.25	\$ 222.56	0.46%
<b>Total Bill on RPP (before Taxes)</b>				\$ 45,372.22			\$ 45,632.61	\$ 260.39	0.57%			\$ 45,829.57	\$ 196.96	0.43%
HST		13%		\$ 5,898.39	13%		\$ 5,932.24	\$ 33.85	0.57%	13%		\$ 5,957.84	\$ 25.60	0.43%
<b>Total Bill (including HST)</b>				\$ 51,270.61			\$ 51,564.85	\$ 294.24	0.57%			\$ 51,787.41	\$ 222.56	0.43%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>				\$ -			\$ -	\$ -				\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>				\$ 51,270.61			\$ 51,564.85	\$ 294.24	0.57%			\$ 51,787.41	\$ 222.56	0.43%
<b>Loss Factor (%)</b>			3.44%			3.93%					3.93%			
<b>Distribution Excluding Rate Riders</b>														
	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 280.09	1	\$ 280.09	\$ 314.28	1	\$ 314.28	\$ 34.19	12.21%	\$ 322.99	1	\$ 322.99	\$ 8.71	2.77%
Distribution Volumetric Rate	per kW	\$ 2.0063	500	\$ 1,003.15	\$ 2.0517	500	\$ 1,025.85	\$ 22.70	2.26%	\$ 2.1314	500	\$ 1,065.70	\$ 39.85	3.88%
<b>"Regular" Distribution Only</b>				\$ 1,283.24			\$ 1,340.13	\$ 56.89	4.43%			\$ 1,388.69	\$ 48.56	3.62%

Customer Class:

General Service 50 to 4,999 kW

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 330.5400	1	\$ 330.54	\$ 7.55	2.34%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.2143	500	\$ 1,107.15	\$ 41.45	3.89%
Rate Rider Tax Change (2015)	\$ -	500	\$ -	\$ -	
LRAM VA (2016)	\$ -	500	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	500	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 1,437.69	\$ 49.00	3.53%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	500	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	500	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	\$ 0.2245	500	\$ 112.25	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	500	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	500	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	500	\$ 233.45	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	13755	\$ 1,306.72	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 2,865.61	\$ 49.00	1.74%
RTSR - Network	\$ 2.7797	500	\$ 1,389.85	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	500	\$ 1,111.25	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 5,366.71	\$ 49.00	0.92%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	363755	\$ 1,600.52	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	363755	\$ 472.88	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	350000	\$ 2,450.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	224000	\$ 17,248.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	63000	\$ 7,182.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	63000	\$ 8,820.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	349400	\$ 35,988.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 43,140.37	\$ 49.00	0.11%
HST	13%		\$ 5,608.25	\$ 6.37	0.11%
<b>Total Bill (including HST)</b>			\$ 48,748.62	\$ 55.37	0.11%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>			\$ 48,748.62	\$ 55.37	0.11%
<b>Total Bill on RPP (before Taxes)</b>			\$ 45,878.57	\$ 49.00	0.11%
HST	13%		\$ 5,964.21	\$ 6.37	0.11%
<b>Total Bill (including HST)</b>			\$ 51,842.78	\$ 55.37	0.11%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>			\$ 51,842.78	\$ 55.37	0.11%

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 330.54	1	\$ 330.54	\$ 7.55	2.34%
Distribution Volumetric Rate	\$ 2.2143	500	\$ 1,107.15	\$ 41.45	3.89%
<b>"Regular" Distribution Only</b>			\$ 1,437.69	\$ 49.00	3.53%

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 337.9000	1	\$ 337.90	\$ 7.36	2.23%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.2986	500	\$ 1,149.30	\$ 42.15	3.81%
Rate Rider Tax Change (2015)	\$ -	500	\$ -	\$ -	
LRAM VA (2016)	\$ -	500	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	500	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 1,487.20	\$ 49.51	3.44%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	500	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	500	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	\$ 0.2245	500	\$ 112.25	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	500	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	500	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	500	\$ 233.45	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	13755	\$ 1,306.72	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 2,915.12	\$ 49.51	1.73%
RTSR - Network	\$ 2.7797	500	\$ 1,389.85	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	500	\$ 1,111.25	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 5,416.22	\$ 49.51	0.92%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	363755	\$ 1,600.52	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	363755	\$ 472.88	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	350000	\$ 2,450.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	224000	\$ 17,248.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	63000	\$ 7,182.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	63000	\$ 8,820.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	349400	\$ 35,988.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 43,189.88	\$ 49.51	0.11%
HST	13%		\$ 5,614.68	\$ 6.44	0.11%
<b>Total Bill (including HST)</b>			\$ 48,804.56	\$ 55.95	0.11%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>			\$ 48,804.56	\$ 55.95	0.11%
<b>Total Bill on RPP (before Taxes)</b>			\$ 45,928.08	\$ 49.51	0.11%
HST	13%		\$ 5,970.65	\$ 6.44	0.11%
<b>Total Bill (including HST)</b>			\$ 51,898.73	\$ 55.95	0.11%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>			\$ 51,898.73	\$ 55.95	0.11%

Loss Factor (%) 3.93%

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 337.9000	1	\$ 337.90	\$ 7.36	2.23%
Distribution Volumetric Rate	\$ 2.2986	500	\$ 1,149.30	\$ 42.15	3.81%
<b>"Regular" Distribution Only</b>			\$ 1,487.20	\$ 49.51	3.44%

	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 342.7500	1	\$ 342.75	\$ 4.85	1.44%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.3661	500	\$ 1,183.05	\$ 33.75	2.94%
Rate Rider Tax Change (2015)	\$ -	500	\$ -	\$ -	
LRAM VA (2016)	\$ -	500	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	500	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			\$ 1,525.80	\$ 38.60	2.60%
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	500	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	500	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	\$ 0.2245	500	\$ 112.25	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	500	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	500	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	500	\$ 233.45	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	13755	\$ 1,306.72	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 2,953.72	\$ 38.60	1.32%
RTSR - Network	\$ 2.7797	500	\$ 1,389.85	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	500	\$ 1,111.25	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 5,454.82	\$ 38.60	0.71%
Wholesale Market Service Charge (WMSC)	\$ 0.0044	363755	\$ 1,600.52	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	363755	\$ 472.88	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	350000	\$ 2,450.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	224000	\$ 17,248.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	63000	\$ 7,182.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	63000	\$ 8,820.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	349400	\$ 35,988.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			\$ 43,228.48	\$ 38.60	0.09%
HST	13%		\$ 5,619.70	\$ 5.02	0.09%
<b>Total Bill (including HST)</b>			\$ 48,848.18	\$ 43.62	0.09%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>			\$ 48,848.18	\$ 43.62	0.09%
<b>Total Bill on RPP (before Taxes)</b>			\$ 45,966.68	\$ 38.60	0.08%
HST	13%		\$ 5,975.67	\$ 5.02	0.08%
<b>Total Bill (including HST)</b>			\$ 51,942.35	\$ 43.62	0.08%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>			\$ 51,942.35	\$ 43.62	0.08%

Loss Factor (%) 3.93%

	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 342.7500	1	\$ 342.75	\$ 4.85	1.44%
Distribution Volumetric Rate	\$ 2.3661	500	\$ 1,183.05	\$ 33.75	2.94%
<b>"Regular" Distribution Only</b>			\$ 1,525.80	\$ 38.60	2.60%

# Appendix 2-W Bill Impacts

Customer Class: **General Service 50 to 4,999 kW**

**General Service 50 to 4,999 kW**

TOU / non-TOU: **TOU**

Consumption Load **800,000 kWh** ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 280.0900	1	\$ 280.09	\$ 314.2800	1	\$ 314.28	\$ 34.19	12.21%	\$ 322.9900	1	\$ 322.99	\$ 8.71	2.77%
Smart Meter (SMIRR) Rate Rider	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	Monthly	\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kW	\$ 2.0063	1,000	\$ 2,006.30	\$ 2.0517	1,000	\$ 2,051.70	\$ 45.40	2.26%	\$ 2.1314	1,000	\$ 2,131.40	\$ 79.70	3.88%
Rate Rider Tax Change (2015)	per kW	\$ 0.0099	1,000	\$ 9.90	\$ -	1,000	\$ -	\$ 9.90	-100.00%	\$ -	1,000	\$ -	\$ -	
LRAM VA (2016)	per kW	\$ -	1,000	\$ -	\$ 0.0293	1,000	\$ 29.30	\$ 29.30	100.00%	\$ -	1,000	\$ -	\$ -29.30	-100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kW	\$ -	1,000	\$ -	\$ 0.0380	1,000	\$ 38.00	\$ 38.00	100.00%	\$ -	1,000	\$ -	\$ -38.00	-100.00%
<b>Sub-Total A (excluding pass through)</b>				\$ 2,276.49			\$ 2,433.28	\$ 156.79	6.89%			\$ 2,454.39	\$ 21.11	0.87%
Deferral/Variance Account Disposition Rate Rider (2016)	per kW	\$ -	1,000	\$ -	\$ 0.7402	1,000	\$ 740.20	\$ 740.20	100.00%	\$ -	1,000	\$ -	\$ -740.20	-100.00%
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	per kW	\$ -	1,000	\$ -	\$ 1.1043	1,000	\$ 1,104.30	\$ 1,104.30	100.00%	\$ -	1,000	\$ -	\$ 1,104.30	-100.00%
Rate Rider CGAAP Account 1576 (2016)	per kW	\$ -	1,000	\$ -	\$ 0.2245	1,000	\$ 224.50	\$ 224.50	100.00%	\$ 0.2245	1,000	\$ 224.50	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	per kW	\$ 5.7342		\$ -	\$ -	1,000	\$ -	\$ -		\$ -	1,000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	per kW	\$ -	1,000	\$ -	\$ 4.9999		\$ -	\$ -		\$ -	1,000	\$ -	\$ -	
Low Voltage Service Charge	per kW	\$ 0.2520	1,000	\$ 252.00	\$ 0.4669	1,000	\$ 466.90	\$ 214.90	85.28%	\$ 0.4669	1,000	\$ 466.90	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	27,520	\$ 2,614.40	\$ 0.0950	31440	\$ 2,986.80	\$ 372.40	14.24%	\$ 0.0950	31440	\$ 2,986.80	\$ -	0.00%
Smart Meter Entity Charge		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 5,142.89			\$ 5,298.38	\$ 155.49	3.02%			\$ 5,683.59	\$ 385.21	7.27%
RTSR - Network	per kW	\$ 2.6313	1000	\$ 2,631.30	\$ 2.7797	1000	\$ 2,779.70	\$ 148.40	5.64%	\$ 2.7797	1000	\$ 2,779.70	\$ -	0.00%
RTSR - Line and Transformation Connection	per kW	\$ 2.0128	1000	\$ 2,012.80	\$ 2.2225	1000	\$ 2,222.50	\$ 209.70	10.42%	\$ 2.2225	1000	\$ 2,222.50	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 9,786.99			\$ 10,300.58	\$ 513.59	5.25%			\$ 10,685.79	\$ 385.21	3.74%
Wholesale Market Service Charge (WMSVC)	per kWh	\$ 0.0044	827520	\$ 3,641.09	\$ 0.0044	831440	\$ 3,658.34	\$ 17.25	0.47%	\$ 0.0044	831440	\$ 3,658.34	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	827520	\$ 1,075.78	\$ 0.0013	831440	\$ 1,080.87	\$ 5.10	0.47%	\$ 0.0013	831440	\$ 1,080.87	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	800000	\$ 5,600.00	\$ 0.0070	800000	\$ 5,600.00	\$ -	0.00%	\$ 0.0070	800000	\$ 5,600.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	512000	\$ 39,424.00	\$ 0.0770	512000	\$ 39,424.00	\$ -	0.00%	\$ 0.0770	512000	\$ 39,424.00	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	144000	\$ 16,416.00	\$ 0.1140	144000	\$ 16,416.00	\$ -	0.00%	\$ 0.1140	144000	\$ 16,416.00	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	144000	\$ 20,160.00	\$ 0.1400	144000	\$ 20,160.00	\$ -	0.00%	\$ 0.1400	144000	\$ 20,160.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	799400	\$ 82,338.20	\$ 0.1030	799400	\$ 82,338.20	\$ -	0.00%	\$ 0.1030	799400	\$ 82,338.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$ 96,104.10			\$ 96,640.04	\$ 535.93	0.56%			\$ 97,025.25	\$ 385.21	0.40%
HST			13%	\$ 12,493.53		13%	\$ 12,563.20	\$ 69.67	0.56%		13%	\$ 12,613.28	\$ 50.08	0.40%
<b>Total Bill (including HST)</b>				\$ 108,597.64			\$ 109,203.24	\$ 605.61	0.56%			\$ 109,638.53	\$ 435.29	0.40%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>				\$ -			\$ -	\$ -				\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>				\$ 108,597.64			\$ 109,203.24	\$ 605.61	0.56%			\$ 109,638.53	\$ 435.29	0.40%
<b>Total Bill on RPP (before Taxes)</b>				\$ 102,442.30			\$ 102,978.24	\$ 535.93	0.52%			\$ 103,363.45	\$ 385.21	0.37%
HST			13%	\$ 13,317.50		13%	\$ 13,387.17	\$ 69.67	0.52%		13%	\$ 13,437.25	\$ 50.08	0.37%
<b>Total Bill (including HST)</b>				\$ 115,759.80			\$ 116,365.41	\$ 605.61	0.52%			\$ 116,800.70	\$ 435.29	0.37%
<b>Ontario Clean Energy Benefit<sup>1</sup></b>				\$ -			\$ -	\$ -				\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>				\$ 115,759.80			\$ 116,365.41	\$ 605.61	0.52%			\$ 116,800.70	\$ 435.29	0.37%

Loss Factor (%) **3.44%**

**3.93%**

**3.93%**

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 280.09	1	\$ 280.09	\$ 314.28	1	\$ 314.28	\$ 34.19	12.21%	\$ 322.99	1	\$ 322.99	\$ 8.71	2.77%
Distribution Volumetric Rate	per kW	\$ 2.0063	1,000	\$ 2,006.30	\$ 2.0517	1,000	\$ 2,051.70	\$ 45.40	2.26%	\$ 2.1314	1,000	\$ 2,131.40	\$ 79.70	3.88%
<b>"Regular" Distribution Only</b>				\$ 2,286.39			\$ 2,365.98	\$ 79.59	3.48%			\$ 2,454.39	\$ 88.41	3.74%

Customer Class:

General Service 50 to 4,999 kW

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 330.5400	1	\$ 330.54	\$ 7.55	2.34%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.2143	1,000	\$ 2,214.30	\$ 82.90	3.89%
Rate Rider Tax Change (2015)	\$ -	1,000	\$ -	\$ -	
LRAM VA (2016)	\$ -	1,000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	1,000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 2,544.84</b>	<b>\$ 90.45</b>	<b>3.69%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	1,000	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	1,000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.2245	1,000	-\$ 224.50	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	1,000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	1,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	1,000	\$ 466.90	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	31440	\$ 2,986.80	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 5,774.04</b>	<b>\$ 90.45</b>	<b>1.59%</b>
RTSR - Network	\$ 2.7797	1000	\$ 2,779.70	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	1000	\$ 2,222.50	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 10,776.24</b>	<b>\$ 90.45</b>	<b>0.85%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	831440	\$ 3,658.34	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	831440	\$ 1,080.87	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	800000	\$ 5,600.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	512000	\$ 39,424.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	144000	\$ 16,416.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	144000	\$ 20,160.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	799400	\$ 82,338.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 97,115.70</b>	<b>\$ 90.45</b>	<b>0.09%</b>
HST	13%		\$ 12,625.04	\$ 11.76	0.09%
<b>Total Bill (including HST)</b>			<b>\$ 109,740.74</b>	<b>\$ 102.21</b>	<b>0.09%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.00%</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 109,740.74</b>	<b>\$ 102.21</b>	<b>0.09%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 103,453.90</b>	<b>\$ 90.45</b>	<b>0.09%</b>
HST	13%		\$ 13,449.01	\$ 11.76	0.09%
<b>Total Bill (including HST)</b>			<b>\$ 116,902.90</b>	<b>\$ 102.21</b>	<b>0.09%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.00%</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 116,902.90</b>	<b>\$ 102.21</b>	<b>0.09%</b>

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 330.54	1	\$ 330.54	\$ 7.55	2.34%
Distribution Volumetric Rate	\$ 2.2143	1,000	\$ 2,214.30	\$ 82.90	3.89%
<b>"Regular" Distribution Only</b>			<b>\$ 2,544.84</b>	<b>\$ 90.45</b>	<b>3.69%</b>

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 337.9000	1	\$ 337.90	\$ 7.36	2.23%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.2986	1,000	\$ 2,298.60	\$ 84.30	3.81%
Rate Rider Tax Change (2015)	\$ -	1,000	\$ -	\$ -	
LRAM VA (2016)	\$ -	1,000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	1,000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 2,636.50</b>	<b>\$ 91.66</b>	<b>3.60%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	1,000	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	1,000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.2245	1,000	-\$ 224.50	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	1,000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	1,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	1,000	\$ 466.90	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	31440	\$ 2,986.80	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 5,865.70</b>	<b>\$ 91.66</b>	<b>1.59%</b>
RTSR - Network	\$ 2.7797	1000	\$ 2,779.70	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	1000	\$ 2,222.50	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 10,867.90</b>	<b>\$ 91.66</b>	<b>0.85%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	831440	\$ 3,658.34	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	831440	\$ 1,080.87	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	800000	\$ 5,600.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	512000	\$ 39,424.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	144000	\$ 16,416.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	144000	\$ 20,160.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	799400	\$ 82,338.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 97,207.36</b>	<b>\$ 91.66</b>	<b>0.09%</b>
HST	13%		\$ 12,636.96	\$ 11.92	0.09%
<b>Total Bill (including HST)</b>			<b>\$ 109,844.31</b>	<b>\$ 103.58</b>	<b>0.09%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.00%</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 109,844.31</b>	<b>\$ 103.58</b>	<b>0.09%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 103,545.56</b>	<b>\$ 91.66</b>	<b>0.09%</b>
HST	13%		\$ 13,460.92	\$ 11.92	0.09%
<b>Total Bill (including HST)</b>			<b>\$ 117,006.48</b>	<b>\$ 103.58</b>	<b>0.09%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.00%</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 117,006.48</b>	<b>\$ 103.58</b>	<b>0.09%</b>

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 337.9000	1	\$ 337.90	\$ 7.36	2.23%
Distribution Volumetric Rate	\$ 2.2986	1,000	\$ 2,298.60	\$ 84.30	3.81%
<b>"Regular" Distribution Only</b>			<b>\$ 2,636.50</b>	<b>\$ 91.66</b>	<b>3.60%</b>

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 342.7500	1	\$ 342.75	\$ 4.85	1.44%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 2.3661	1,000	\$ 2,366.10	\$ 67.50	2.94%
Rate Rider Tax Change (2015)	\$ -	1,000	\$ -	\$ -	
LRAM VA (2016)	\$ -	1,000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	1,000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 2,708.85</b>	<b>\$ 72.35</b>	<b>2.74%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	1,000	\$ -	\$ -	
Deferral/Variance Account Disposition Rate Rider (2016), excluding Wholesale Market Participants	\$ -	1,000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.2245	1,000	-\$ 224.50	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	1,000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers, excluding Wholesale Market Participants	\$ -	1,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.4669	1,000	\$ 466.90	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	31440	\$ 2,986.80	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 5,938.05</b>	<b>\$ 72.35</b>	<b>1.23%</b>
RTSR - Network	\$ 2.7797	1000	\$ 2,779.70	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.2225	1000	\$ 2,222.50	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 10,940.25</b>	<b>\$ 72.35</b>	<b>0.67%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	831440	\$ 3,658.34	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	831440	\$ 1,080.87	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	800000	\$ 5,600.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	512000	\$ 39,424.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	144000	\$ 16,416.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	144000	\$ 20,160.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	799400	\$ 82,338.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 97,279.71</b>	<b>\$ 72.35</b>	<b>0.07%</b>
HST	13%		\$ 12,646.36	\$ 9.41	0.07%
<b>Total Bill (including HST)</b>			<b>\$ 109,926.07</b>	<b>\$ 81.76</b>	<b>0.07%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.00%</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 109,926.07</b>	<b>\$ 81.76</b>	<b>0.07%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 103,617.91</b>	<b>\$ 72.35</b>	<b>0.07%</b>
HST	13%		\$ 13,470.33	\$ 11.92	0.09%
<b>Total Bill (including HST)</b>			<b>\$ 117,088.24</b>	<b>\$ 81.76</b>	<b>0.07%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>0.00%</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 117,088.24</b>	<b>\$ 81.76</b>	<b>0.07%</b>

Loss Factor (%) 3.93%

Distribution Excluding Rate Riders

**Appendix 2-W  
Bill Impacts**

Customer Class: **Large Use**

**Large Use**

TOU / non-TOU: **TOU**

Consumption Load	Charge Unit	5,000,000 kWh		8,000 kW		May 1 - October 31		November 1 - April 30 (Select this radio button for applications filed after Oct 31)	
		2015 Current Board-Approved		2016 Test Year 1 Proposed		Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 5,164.00	1	\$ 5,164.00	\$ 5,734.00	1	\$ 5,734.00	\$ 570.00	11.04%
Smart Meter (SMIRR) Rate Rider		\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)		\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters		\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kW	\$ 1.0535	8,000	\$ 8,428.00	\$ 1.1818	8,000	\$ 9,454.40	\$ 1,026.40	12.18%
Rate Rider Tax Change (2015)	per kW	-\$ 0.0045	8,000	-\$ 36.00	\$ -	8,000	\$ -	\$ 36.00	-100.00%
LRAM VA (2016)	per kW	\$ -	8,000	\$ -	\$ 0.0277	8,000	\$ 221.60	\$ 221.60	
Rate Rider Incremental Capital 2012 True-Up (2016)	per kW	\$ -	8,000	\$ -	\$ 0.0182	8,000	\$ 145.60	\$ 145.60	
<b>Sub-Total A (excluding pass through)</b>				\$ 13,556.00			\$ 15,555.60	\$ 1,999.60	14.75%
Deferral/Variance Account Disposition Rate Rider (2016)	per kW	\$ -	8,000	\$ -	-\$ 0.5530	8,000	-\$ 4,424.00	-\$ 4,424.00	
Rate Rider CGAAP Account 1576 (2016)	per kW	\$ -	8,000	\$ -	-\$ 0.1073	8,000	-\$ 858.40	-\$ 858.40	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kW		8,000	\$ -		8,000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kW		8,000	\$ -		8,000	\$ -	\$ -	
Low Voltage Service Charge	per kW	\$ 0.3036	8,000	\$ 2,428.80	\$ 0.5625	8,000	\$ 4,500.00	\$ 2,071.20	85.28%
Line Losses on Cost of Power	per kWh	\$ 0.0950	90,000	\$ 8,550.00	\$ 0.0950	94,000	\$ 8,930.00	\$ 380.00	4.44%
Smart Meter Entity Charge		\$ -	1	\$ -	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 24,534.80			\$ 23,703.20	-\$ 831.60	-3.39%
RTSR - Network	per kW	\$ 3.1704	8,000	\$ 25,363.20	\$ 3.3492	8,000	\$ 26,793.60	\$ 1,430.40	5.64%
RTSR - Line and Transformation Connection	per kW	\$ 2.4253	8,000	\$ 19,402.40	\$ 2.6780	8,000	\$ 21,424.00	\$ 2,021.60	10.42%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 69,300.40			\$ 71,920.80	\$ 2,620.40	3.78%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	5090000	\$ 22,396.00	\$ 0.0044	5094000	\$ 22,413.60	\$ 17.60	0.08%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	5090000	\$ 6,617.00	\$ 0.0013	5094000	\$ 6,622.20	\$ 5.20	0.08%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	5000000	\$ 35,000.00	\$ 0.0070	5000000	\$ 35,000.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	3200000	\$246,400.00	\$ 0.0770	3200000	\$246,400.00	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	900000	\$102,600.00	\$ 0.1140	900000	\$102,600.00	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	900000	\$126,000.00	\$ 0.1400	900000	\$126,000.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	4999400	\$514,938.20	\$ 0.1030	4999400	\$514,938.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				\$608,313.65			\$610,956.85	\$ 2,643.20	0.43%
HST		13%		\$ 79,080.77	13%		\$ 79,424.39	\$ 343.62	0.43%
<b>Total Bill (including HST)</b>				\$687,394.42			\$690,381.24	\$ 2,986.82	0.43%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>							\$ -	\$ -	
<b>Total Bill on TOU (including OCEB)</b>				\$687,394.42			\$690,381.24	\$ 2,986.82	0.43%
<b>Total Bill on RPP (before Taxes)</b>				\$648,251.85			\$650,895.05	\$ 2,643.20	0.41%
HST		13%		\$ 84,272.74	13%		\$ 84,616.36	\$ 343.62	0.41%
<b>Total Bill (including HST)</b>				\$732,524.59			\$735,511.41	\$ 2,986.82	0.41%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>							\$ -	\$ -	
<b>Total Bill on RPP (including OCEB)</b>				\$732,524.59			\$735,511.41	\$ 2,986.82	0.41%

Loss Factor (%) **1.80%**

**1.88%**

**1.88%**

Distribution Excluding Rate Riders

Consumption Load	Charge Unit	2015 Current Board-Approved		2016 Test Year 1 Proposed		Impact 2016 TEST vs. 2015 Bridge	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)
		\$		\$	\$		\$
Monthly Service Charge	Monthly	\$ 5,164.00	1	\$ 5,164.00	\$ 5,734.00	1	\$ 5,734.00
Distribution Volumetric Rate	per kW	\$ 1.0535	8,000	\$ 8,428.00	\$ 1.1818	8,000	\$ 9,454.40
<b>"Regular" Distribution Only</b>				\$ 13,592.00			\$ 15,188.40

2017 Test Year 2 Proposed		Impact 2017 TEST 2 vs. 2016 Test 1	
Rate (\$)	Volume	Charge (\$)	% Change
\$ 5,880.00	1	\$ 5,880.00	2.55%
\$ 1.2250	8,000	\$ 9,800.00	3.66%
		\$ 15,680.00	3.24%

Customer Class:

Large Use

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 6,076.00	1	\$ 6,076.00	\$ 196.00	3.33%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 1.2597	8,000	\$ 10,077.60	\$ 277.60	2.83%
Rate Rider Tax Change (2015)	\$ -	8,000	\$ -	\$ -	
LRAM VA (2016)	\$ -	8,000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	8,000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 16,153.60</b>	<b>\$ 473.60</b>	<b>3.02%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	8,000	\$ -	\$ -	
		8,000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.1073	8,000	-\$ 858.40	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers		8,000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers		8,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.5625	8,000	\$ 4,500.00	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	94000	\$ 8,930.00	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 28,725.20</b>	<b>\$ 473.60</b>	<b>1.68%</b>
RTSR - Network	\$ 3.3492	8000	\$ 26,793.60	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.6780	8000	\$ 21,424.00	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 76,942.80</b>	<b>\$ 473.60</b>	<b>0.62%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	5094000	\$ 22,413.60	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	5094000	\$ 6,622.20	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	5000000	\$ 35,000.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	3200000	\$246,400.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	900000	\$102,600.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	900000	\$126,000.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	4999400	\$514,938.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$615,978.85</b>	<b>\$ 473.60</b>	<b>0.08%</b>
HST	13%		\$ 80,077.25	\$ 61.57	0.08%
<b>Total Bill (including HST)</b>			<b>\$696,056.10</b>	<b>\$ 535.17</b>	<b>0.08%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on TOU (including OCEB)</b>			<b>\$696,056.10</b>	<b>\$ 535.17</b>	<b>0.08%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$655,917.05</b>	<b>\$ 473.60</b>	<b>0.07%</b>
HST	13%		\$ 85,269.22	\$ 61.57	0.07%
<b>Total Bill (including HST)</b>			<b>\$741,186.27</b>	<b>\$ 535.17</b>	<b>0.07%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on RPP (including OCEB)</b>			<b>\$741,186.27</b>	<b>\$ 535.17</b>	<b>0.07%</b>

Loss Factor (%) 1.88%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 6,076.00	1	\$ 6,076.00	\$ 196.00	3.33%
Distribution Volumetric Rate	\$ 1.2597	8,000	\$ 10,077.60	\$ 277.60	2.83%
<b>"Regular" Distribution Only</b>			<b>\$ 16,153.60</b>	<b>\$ 473.60</b>	<b>3.02%</b>

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 6,275.85	1	\$ 6,275.85	\$ 199.85	3.29%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 1.2938	8,000	\$ 10,350.40	\$ 272.80	2.71%
Rate Rider Tax Change (2015)	\$ -	8,000	\$ -	\$ -	
LRAM VA (2016)	\$ -	8,000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	8,000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 16,626.25</b>	<b>\$ 472.65</b>	<b>2.93%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	8,000	\$ -	\$ -	
		8,000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.1073	8,000	-\$ 858.40	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers		8,000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers		8,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.5625	8,000	\$ 4,500.00	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	94000	\$ 8,930.00	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 29,197.85</b>	<b>\$ 472.65</b>	<b>1.65%</b>
RTSR - Network	\$ 3.3492	8000	\$ 26,793.60	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.6780	8000	\$ 21,424.00	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 77,415.45</b>	<b>\$ 472.65</b>	<b>0.61%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	5094000	\$ 22,413.60	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	5094000	\$ 6,622.20	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	5000000	\$ 35,000.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	3200000	\$246,400.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	900000	\$102,600.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	900000	\$126,000.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	4999400	\$514,938.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$616,451.50</b>	<b>\$ 472.65</b>	<b>0.08%</b>
HST	13%		\$ 80,138.70	\$ 61.44	0.08%
<b>Total Bill (including HST)</b>			<b>\$696,590.20</b>	<b>\$ 534.09</b>	<b>0.08%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on TOU (including OCEB)</b>			<b>\$696,590.20</b>	<b>\$ 534.09</b>	<b>0.08%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$656,389.70</b>	<b>\$ 472.65</b>	<b>0.07%</b>
HST	13%		\$ 85,330.66	\$ 61.44	0.07%
<b>Total Bill (including HST)</b>			<b>\$741,720.36</b>	<b>\$ 534.09</b>	<b>0.07%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on RPP (including OCEB)</b>			<b>\$741,720.36</b>	<b>\$ 534.09</b>	<b>0.07%</b>

Loss Factor (%) 1.88%

Distribution Excluding Rate Riders

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 6,275.85	1	\$ 6,275.85	\$ 199.85	3.29%
Distribution Volumetric Rate	\$ 1.2938	8,000	\$ 10,350.40	\$ 272.80	2.71%
<b>"Regular" Distribution Only</b>			<b>\$ 16,626.25</b>	<b>\$ 472.65</b>	<b>2.93%</b>

	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 6,430.75	1	\$ 6,430.75	\$ 154.90	2.47%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
		1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 1.3187	8,000	\$ 10,549.60	\$ 199.20	1.92%
Rate Rider Tax Change (2015)	\$ -	8,000	\$ -	\$ -	
LRAM VA (2016)	\$ -	8,000	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	8,000	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 16,980.35</b>	<b>\$ 354.10</b>	<b>2.13%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	8,000	\$ -	\$ -	
		8,000	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.1073	8,000	-\$ 858.40	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers		8,000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers		8,000	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.5625	8,000	\$ 4,500.00	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	94000	\$ 8,930.00	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 29,551.95</b>	<b>\$ 354.10</b>	<b>1.21%</b>
RTSR - Network	\$ 3.3492	8000	\$ 26,793.60	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 2.6780	8000	\$ 21,424.00	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 77,769.55</b>	<b>\$ 354.10</b>	<b>0.46%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	5094000	\$ 22,413.60	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	5094000	\$ 6,622.20	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	5000000	\$ 35,000.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	3200000	\$246,400.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	900000	\$102,600.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	900000	\$126,000.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	4999400	\$514,938.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$616,805.60</b>	<b>\$ 354.10</b>	<b>0.06%</b>
HST	13%		\$ 80,184.73	\$ 46.03	0.06%
<b>Total Bill (including HST)</b>			<b>\$696,990.33</b>	<b>\$ 400.13</b>	<b>0.06%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on TOU (including OCEB)</b>			<b>\$696,990.33</b>	<b>\$ 400.13</b>	<b>0.06%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$656,743.80</b>	<b>\$ 354.10</b>	<b>0.05%</b>
HST	13%		\$ 85,376.69	\$ 46.03	0.05%
<b>Total Bill (including HST)</b>			<b>\$742,120.49</b>	<b>\$ 400.13</b>	<b>0.05%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on RPP (including OCEB)</b>			<b>\$742,120.49</b>	<b>\$ 400.13</b>	<b>0.05%</b>

Loss Factor (%) 1.88%

Distribution Excluding Rate Riders

	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 6,430.75	1	\$ 6,430.75	\$ 154.90	2.47%
Distribution Volumetric Rate	\$ 1.3187	8,000	\$ 10,549.60	\$ 199.20	1.92%
<b>"Regular" Distribution Only</b>			<b>\$ 16,980.35</b>	<b>\$ 354.10</b>	<b>2.13%</b>

# Appendix 2-W Bill Impacts

Customer Class: **Large Use**

**Large Use**

TOU / non-TOU: **TOU**

Consumption Load **3,450,000 kWh** ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

Charge Unit		2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 5,164.00	1	\$ 5,164.00	\$ 5,734.00	1	\$ 5,734.00	\$ 570.00	11.04%	\$ 5,880.00	1	\$ 5,880.00	\$ 146.00	2.55%
Smart Meter (SMIRR) Rate Rider		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kW	\$ 1.0535	55,000	\$ 57,942.50	\$ 1.1818	55,000	\$ 64,999.00	\$ 7,056.50	12.18%	\$ 1.2250	55,000	\$ 67,375.00	\$ 2,376.00	3.66%
Rate Rider Tax Change (2015)	per kW	-\$ 0.0045	55,000	-\$ 247.50	\$ -	55,000	\$ -	\$ 247.50	-100.00%	\$ -	55,000	\$ -	\$ -	
LRAM VA (2016)	per kW	\$ -	55,000	\$ -	\$ 0.0277	55,000	\$ 1,523.50	\$ 1,523.50		\$ -	55,000	\$ -	-\$ 1,523.50	-100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kW	\$ -	55,000	\$ -	\$ 0.0182	55,000	\$ 1,001.00	\$ 1,001.00		\$ -	55,000	\$ -	-\$ 1,001.00	-100.00%
<b>Sub-Total A (excluding pass through)</b>				<b>\$ 62,859.00</b>			<b>\$ 73,257.50</b>	<b>\$ 10,398.50</b>	<b>16.54%</b>			<b>\$ 73,255.00</b>	<b>-\$ 2.50</b>	<b>0.00%</b>
Deferral/Variance Account Disposition Rate Rider (2016)	per kW	\$ -	55,000	\$ -	-\$ 0.5530	55,000	-\$ 30,415.00	-\$ 30,415.00		\$ -	55,000	\$ -	\$ 30,415.00	-100.00%
Rate Rider CGAAP Account 1576 (2016)	per kW	\$ -	55,000	\$ -	-\$ 0.1073	55,000	-\$ 5,901.50	-\$ 5,901.50		-\$ 0.1073	55,000	-\$ 5,901.50	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kW		55,000	\$ -		55,000	\$ -	\$ -			55,000	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kW		55,000	\$ -		55,000	\$ -	\$ -			55,000	\$ -	\$ -	
Low Voltage Service Charge	per kW	\$ 0.3036	55,000	\$ 16,698.00	\$ 0.5625	55,000	\$ 30,937.50	\$ 14,239.50	85.28%	\$ 0.5625	55,000	\$ 30,937.50	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	62,100	\$ 5,899.50	\$ 0.0950	64,860	\$ 6,161.70	\$ 262.20	4.44%	\$ 0.0950	64,860	\$ 6,161.70	\$ -	0.00%
Smart Meter Entity Charge		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				<b>\$ 85,456.50</b>			<b>\$ 74,040.20</b>	<b>-\$ 11,416.30</b>	<b>-13.36%</b>			<b>\$ 104,452.70</b>	<b>\$ 30,412.50</b>	<b>41.08%</b>
RTSR - Network	per kW	\$ 3.1704	55,000	\$ 174,372.00	\$ 3.3492	55,000	\$ 184,206.00	\$ 9,834.00	5.64%	\$ 3.3492	55,000	\$ 184,206.00	\$ -	0.00%
RTSR - Line and Transformation Connection	per kW	\$ 2.4253	55,000	\$ 133,391.50	\$ 2.6780	55,000	\$ 147,290.00	\$ 13,898.50	10.42%	\$ 2.6780	55,000	\$ 147,290.00	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				<b>\$ 393,220.00</b>			<b>\$ 405,536.20</b>	<b>\$ 12,316.20</b>	<b>3.13%</b>			<b>\$ 435,948.70</b>	<b>\$ 30,412.50</b>	<b>7.50%</b>
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	3512100	\$ 15,453.24	\$ 0.0044	3514860	\$ 15,465.38	\$ 12.14	0.08%	\$ 0.0044	3514860	\$ 15,465.38	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	3512100	\$ 4,565.73	\$ 0.0013	3514860	\$ 4,569.32	\$ 3.59	0.08%	\$ 0.0013	3514860	\$ 4,569.32	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	3450000	\$ 24,150.00	\$ 0.0070	3450000	\$ 24,150.00	\$ -	0.00%	\$ 0.0070	3450000	\$ 24,150.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	2208000	\$ 170,016.00	\$ 0.0770	2208000	\$ 170,016.00	\$ -	0.00%	\$ 0.0770	2208000	\$ 170,016.00	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	621000	\$ 70,794.00	\$ 0.1140	621000	\$ 70,794.00	\$ -	0.00%	\$ 0.1140	621000	\$ 70,794.00	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	621000	\$ 86,940.00	\$ 0.1400	621000	\$ 86,940.00	\$ -	0.00%	\$ 0.1400	621000	\$ 86,940.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	3449400	\$ 355,288.20	\$ 0.1030	3449400	\$ 355,288.20	\$ -	0.00%	\$ 0.1030	3449400	\$ 355,288.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				<b>\$ 765,139.22</b>			<b>\$ 777,471.15</b>	<b>\$ 12,331.93</b>	<b>1.61%</b>			<b>\$ 807,883.65</b>	<b>\$ 30,412.50</b>	<b>3.91%</b>
HST	13%			\$ 99,468.10	13%		\$ 101,071.25	\$ 1,603.15	1.61%	13%		\$ 105,024.87	\$ 3,953.63	3.91%
<b>Total Bill (including HST)</b>				<b>\$ 864,607.32</b>			<b>\$ 878,542.40</b>	<b>\$ 13,935.08</b>	<b>1.61%</b>			<b>\$ 912,908.53</b>	<b>\$ 34,366.13</b>	<b>3.91%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>								<b>\$ -</b>					<b>\$ -</b>	
<b>Total Bill on TOU (including OCEB)</b>				<b>\$ 864,607.32</b>			<b>\$ 878,542.40</b>	<b>\$ 13,935.08</b>	<b>1.61%</b>			<b>\$ 912,908.53</b>	<b>\$ 34,366.13</b>	<b>3.91%</b>
<b>Total Bill on RPP (before Taxes)</b>				<b>\$ 792,677.42</b>			<b>\$ 805,009.35</b>	<b>\$ 12,331.93</b>	<b>1.56%</b>			<b>\$ 835,421.85</b>	<b>\$ 30,412.50</b>	<b>3.78%</b>
HST	13%			\$ 103,048.06	13%		\$ 104,651.22	\$ 1,603.15	1.56%	13%		\$ 108,604.84	\$ 3,953.63	3.78%
<b>Total Bill (including HST)</b>				<b>\$ 895,725.48</b>			<b>\$ 909,660.57</b>	<b>\$ 13,935.08</b>	<b>1.56%</b>			<b>\$ 944,026.69</b>	<b>\$ 34,366.13</b>	<b>3.78%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>								<b>\$ -</b>					<b>\$ -</b>	
<b>Total Bill on RPP (including OCEB)</b>				<b>\$ 895,725.48</b>			<b>\$ 909,660.57</b>	<b>\$ 13,935.08</b>	<b>1.56%</b>			<b>\$ 944,026.69</b>	<b>\$ 34,366.13</b>	<b>3.78%</b>

Loss Factor (%) **1.80%**

**1.88%**

**1.88%**

Distribution Excluding Rate Riders

Charge Unit		2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 5,164.00	1	\$ 5,164.00	\$ 5,734.00	1	\$ 5,734.00	\$ 570.00	11.04%	\$ 5,880.00	1	\$ 5,880.00	\$ 146.00	2.55%
Distribution Volumetric Rate	per kW	\$ 1.0535	55,000	\$ 57,942.50	\$ 1.1818	55,000	\$ 64,999.00	\$ 7,056.50	12.18%	\$ 1.2250	55,000	\$ 67,375.00	\$ 2,376.00	3.66%
<b>"Regular" Distribution Only</b>				<b>\$ 63,106.50</b>			<b>\$ 70,733.00</b>	<b>\$ 7,626.50</b>	<b>12.09%</b>			<b>\$ 73,255.00</b>	<b>\$ 2,522.00</b>	<b>3.57%</b>

Customer Class:

Large Use

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 6,076.00	1	\$ 6,076.00	\$ 196.00	3.33%		\$ 6,275.85	1	\$ 6,275.85	\$ 199.85	3.29%		\$ 6,430.75	1	\$ 6,430.75	\$ 154.90	2.47%	
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
Distribution Volumetric Rate	\$ 1.2597	55,000	\$ 69,283.50	\$ 1,908.50	2.83%		\$ 1.2938	55,000	\$ 71,159.00	\$ 1,875.50	2.71%		\$ 1.3187	55,000	\$ 72,528.50	\$ 1,369.50	1.92%	
Rate Rider Tax Change (2015)	\$ -	55,000	\$ -	\$ -			\$ -	55,000	\$ -	\$ -			\$ -	55,000	\$ -	\$ -		
LRAM VA (2016)	\$ -	55,000	\$ -	\$ -			\$ -	55,000	\$ -	\$ -			\$ -	55,000	\$ -	\$ -		
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	55,000	\$ -	\$ -			\$ -	55,000	\$ -	\$ -			\$ -	55,000	\$ -	\$ -		
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 75,359.50</b>	<b>\$ 2,104.50</b>	<b>2.87%</b>				<b>\$ 77,434.85</b>	<b>\$ 2,075.35</b>	<b>2.75%</b>				<b>\$ 78,959.25</b>	<b>\$ 1,524.40</b>	<b>1.97%</b>	
Deferral/Variance Account Disposition Rate Rider (2016)	\$ -	55,000	\$ -	\$ -			\$ -	55,000	\$ -	\$ -			\$ -	55,000	\$ -	\$ -		
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.1073	55,000	-\$ 5,901.50	\$ -	0.00%		-\$ 0.1073	55,000	-\$ 5,901.50	\$ -	0.00%		-\$ 0.1073	55,000	-\$ 5,901.50	\$ -	0.00%	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers		55,000	\$ -	\$ -				55,000	\$ -	\$ -				55,000	\$ -	\$ -		
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers		55,000	\$ -	\$ -				55,000	\$ -	\$ -				55,000	\$ -	\$ -		
Low Voltage Service Charge	\$ 0.5625	55,000	\$ 30,937.50	\$ -	0.00%		\$ 0.5625	55,000	\$ 30,937.50	\$ -	0.00%		\$ 0.5625	55,000	\$ 30,937.50	\$ -	0.00%	
Line Losses on Cost of Power	\$ 0.0950	64860	\$ 6,161.70	\$ -	0.00%		\$ 0.0950	64860	\$ 6,161.70	\$ -	0.00%		\$ 0.0950	64860	\$ 6,161.70	\$ -	0.00%	
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 106,557.20</b>	<b>\$ 2,104.50</b>	<b>2.01%</b>				<b>\$ 108,632.55</b>	<b>\$ 2,075.35</b>	<b>1.95%</b>				<b>\$ 110,156.95</b>	<b>\$ 1,524.40</b>	<b>1.40%</b>	
RTSR - Network	\$ 3.3492	55000	\$ 184,206.00	\$ -	0.00%		\$ 3.3492	55000	\$ 184,206.00	\$ -	0.00%		\$ 3.3492	55000	\$ 184,206.00	\$ -	0.00%	
RTSR - Line and Transformation Connection	\$ 2.6780	55000	\$ 147,290.00	\$ -	0.00%		\$ 2.6780	55000	\$ 147,290.00	\$ -	0.00%		\$ 2.6780	55000	\$ 147,290.00	\$ -	0.00%	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 438,053.20</b>	<b>\$ 2,104.50</b>	<b>0.48%</b>				<b>\$ 440,128.55</b>	<b>\$ 2,075.35</b>	<b>0.47%</b>				<b>\$ 441,652.95</b>	<b>\$ 1,524.40</b>	<b>0.35%</b>	
Wholesale Market Service Charge (WMSC)	\$ 0.0044	3514860	\$ 15,465.38	\$ -	0.00%		\$ 0.0044	3514860	\$ 15,465.38	\$ -	0.00%		\$ 0.0044	3514860	\$ 15,465.38	\$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	3514860	\$ 4,569.32	\$ -	0.00%		\$ 0.0013	3514860	\$ 4,569.32	\$ -	0.00%		\$ 0.0013	3514860	\$ 4,569.32	\$ -	0.00%	
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
Debt Retirement Charge (DRC)	\$ 0.0070	3450000	\$ 24,150.00	\$ -	0.00%		\$ 0.0070	3450000	\$ 24,150.00	\$ -	0.00%		\$ 0.0070	3450000	\$ 24,150.00	\$ -	0.00%	
TOU - Off Peak	\$ 0.0770	2208000	\$ 170,016.00	\$ -	0.00%		\$ 0.0770	2208000	\$ 170,016.00	\$ -	0.00%		\$ 0.0770	2208000	\$ 170,016.00	\$ -	0.00%	
TOU - Mid Peak	\$ 0.1140	621000	\$ 70,794.00	\$ -	0.00%		\$ 0.1140	621000	\$ 70,794.00	\$ -	0.00%		\$ 0.1140	621000	\$ 70,794.00	\$ -	0.00%	
TOU - On Peak	\$ 0.1400	621000	\$ 86,940.00	\$ -	0.00%		\$ 0.1400	621000	\$ 86,940.00	\$ -	0.00%		\$ 0.1400	621000	\$ 86,940.00	\$ -	0.00%	
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%	
Energy - RPP - Tier 2	\$ 0.1030	3449400	\$ 355,288.20	\$ -	0.00%		\$ 0.1030	3449400	\$ 355,288.20	\$ -	0.00%		\$ 0.1030	3449400	\$ 355,288.20	\$ -	0.00%	
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 809,988.15</b>	<b>\$ 2,104.50</b>	<b>0.26%</b>				<b>\$ 812,063.50</b>	<b>\$ 2,075.35</b>	<b>0.26%</b>				<b>\$ 813,587.90</b>	<b>\$ 1,524.40</b>	<b>0.19%</b>	
HST	13%		\$ 105,298.46	\$ 273.58	0.26%		13%		\$ 105,568.26	\$ 269.80	0.26%		13%		\$ 105,766.43	\$ 198.17	0.19%	
<b>Total Bill (including HST)</b>			<b>\$ 915,286.61</b>	<b>\$ 2,378.08</b>	<b>0.26%</b>				<b>\$ 917,631.76</b>	<b>\$ 2,345.15</b>	<b>0.26%</b>				<b>\$ 919,354.33</b>	<b>\$ 1,722.57</b>	<b>0.19%</b>	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>					<b>\$ -</b>	<b>\$ -</b>					<b>\$ -</b>	<b>\$ -</b>		
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 915,286.61</b>	<b>\$ 2,378.08</b>	<b>0.26%</b>				<b>\$ 917,631.76</b>	<b>\$ 2,345.15</b>	<b>0.26%</b>				<b>\$ 919,354.33</b>	<b>\$ 1,722.57</b>	<b>0.19%</b>	
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 837,526.35</b>	<b>\$ 2,104.50</b>	<b>0.25%</b>				<b>\$ 839,601.70</b>	<b>\$ 2,075.35</b>	<b>0.25%</b>				<b>\$ 841,126.10</b>	<b>\$ 1,524.40</b>	<b>0.18%</b>	
HST	13%		\$ 108,878.43	\$ 273.59	0.25%		13%		\$ 109,148.22	\$ 269.80	0.25%		13%		\$ 109,346.39	\$ 198.17	0.18%	
<b>Total Bill (including HST)</b>			<b>\$ 946,404.78</b>	<b>\$ 2,378.09</b>	<b>0.25%</b>				<b>\$ 948,749.92</b>	<b>\$ 2,345.15</b>	<b>0.25%</b>				<b>\$ 950,472.50</b>	<b>\$ 1,722.57</b>	<b>0.18%</b>	
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>					<b>\$ -</b>	<b>\$ -</b>					<b>\$ -</b>	<b>\$ -</b>		
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 946,404.78</b>	<b>\$ 2,378.09</b>	<b>0.25%</b>				<b>\$ 948,749.92</b>	<b>\$ 2,345.15</b>	<b>0.25%</b>				<b>\$ 950,472.50</b>	<b>\$ 1,722.57</b>	<b>0.18%</b>	

Loss Factor (%)

1.88%

1.88%

1.88%

Distribution Excluding Rate Riders

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 6,076.00	1	\$ 6,076.00	\$ 196.00	3.33%		\$ 6,275.85	1	\$ 6,275.85	\$ 199.85	3.29%		\$ 6,430.75	1	\$ 6,430.75	\$ 154.90	2.47%	
Distribution Volumetric Rate	\$ 1.2597	55,000	\$ 69,283.50	\$ 1,908.50	2.83%		\$ 1.2938	55,000	\$ 71,159.00	\$ 1,875.50	2.71%		\$ 1.3187	55,000	\$ 72,528.50	\$ 1,369.50	1.92%	
<b>"Regular" Distribution Only</b>			<b>\$ 75,359.50</b>	<b>\$ 2,104.50</b>	<b>2.87%</b>				<b>\$ 77,434.85</b>	<b>\$ 2,075.35</b>	<b>2.75%</b>				<b>\$ 78,959.25</b>	<b>\$ 1,524.40</b>	<b>1.97%</b>	

# Appendix 2-W Bill Impacts

Customer Class: **Street Lighting**

**Street Lighting**

TOU / non-TOU: **TOU**

Lights **5,000** number of  
Consumption **150,000** kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)  
Load **375** kW

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge (per light)	Monthly	\$ 1.02	5,000	\$ 5,100.00	\$ 0.90	5,000	\$ 4,500.00	-\$ 600.00	-11.76%	\$ 1.03	5,000	\$ 5,150.00	\$ 650.00	14.44%
Smart Meter (SMIRR) Rate Rider		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kW	\$ 4.6750	375	\$ 1,753.13	\$ 9.5484	375	\$ 3,580.65	\$ 1,827.53	104.24%	\$ 10.9179	375	\$ 4,094.21	\$ 513.56	14.34%
Rate Rider Tax Change (2015)		-\$ 0.0278	375	-\$ 10.43	\$ -	375	\$ -	\$ 10.43	-100.00%	\$ -	375	\$ -	\$ -	
LRAM VA (2016)	per kW	\$ -	375	\$ -	\$ 6.6417	375	\$ 2,490.64	\$ 2,490.64		\$ -	375	\$ -	-\$ 2,490.64	-100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kW	\$ -	375	\$ -	\$ 0.2240	375	\$ 84.00	\$ 84.00		\$ -	375	\$ -	-\$ 84.00	-100.00%
<b>Sub-Total A (excluding pass through)</b>				<b>\$ 6,842.70</b>			<b>\$ 10,655.29</b>	<b>\$ 3,812.59</b>	<b>55.72%</b>			<b>\$ 9,244.21</b>	<b>-\$ 1,411.08</b>	<b>-13.24%</b>
Deferral/Variance Account Disposition	per kW	\$ -	375	\$ -	\$ 14.1931	375	\$ 5,322.41	\$ 5,322.41		\$ -	375	\$ -	-\$ 5,322.41	-100.00%
Rate Rider (2016)			375	\$ -		375	\$ -	\$ -			375	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kW	\$ -	375	\$ -	-\$ 1.3222	375	-\$ 495.83	-\$ 495.83		-\$ 1.3222	375	-\$ 495.83	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kW	\$ 5.5544		\$ -	\$ -	375	\$ -	\$ -		\$ -	375	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kW	\$ -	375	\$ -	\$ 4.9465		\$ -	\$ -		\$ -	375	\$ -	\$ -	
Low Voltage Service Charge	per kW	\$ 0.1820	375	\$ 68.25	\$ 0.3372	375	\$ 126.45	\$ 58.20	85.27%	\$ 0.3372	375	\$ 126.45	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	5160	\$ 490.20	\$ 0.0950	5895	\$ 560.02	\$ 69.82	14.24%	\$ 0.0950	5895	\$ 560.02	\$ -	0.00%
Smart Meter Entity Charge			1	\$ -	\$ -	1	\$ -	\$ -			1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				<b>\$ 7,401.15</b>			<b>\$ 16,168.35</b>	<b>\$ 8,767.20</b>	<b>118.46%</b>			<b>\$ 9,434.86</b>	<b>-\$ 6,733.49</b>	<b>-41.65%</b>
RTSR - Network	per kW	\$ 1.9006	375	\$ 712.73	\$ 2.0078	375	\$ 752.93	\$ 40.20	5.64%	\$ 2.0078	375	\$ 752.93	\$ -	0.00%
RTSR - Line and Transformation Connection	per kW	\$ 1.4538	375	\$ 545.18	\$ 1.6053	375	\$ 601.99	\$ 56.81	10.42%	\$ 1.6053	375	\$ 601.99	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				<b>\$ 8,659.05</b>			<b>\$ 17,523.26</b>	<b>\$ 8,864.21</b>	<b>102.37%</b>			<b>\$ 10,789.78</b>	<b>-\$ 6,733.49</b>	<b>-38.43%</b>
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	155160	\$ 682.70	\$ 0.0044	155895	\$ 685.94	\$ 3.23	0.47%	\$ 0.0044	155895	\$ 685.94	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	155160	\$ 201.71	\$ 0.0013	155895	\$ 202.66	\$ 0.96	0.47%	\$ 0.0013	155895	\$ 202.66	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	150000	\$ 1,050.00	\$ 0.0070	150000	\$ 1,050.00	\$ -	0.00%	\$ 0.0070	150000	\$ 1,050.00	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	96,000	\$ 7,392.00	\$ 0.0770	96000	\$ 7,392.00	\$ -	0.00%	\$ 0.0770	96000	\$ 7,392.00	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	27,000	\$ 3,078.00	\$ 0.1140	27000	\$ 3,078.00	\$ -	0.00%	\$ 0.1140	27000	\$ 3,078.00	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	27,000	\$ 3,780.00	\$ 0.1400	27000	\$ 3,780.00	\$ -	0.00%	\$ 0.1400	27000	\$ 3,780.00	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	600	\$ 52.80	\$ 0.0880	600	\$ 52.80	\$ -	0.00%	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	149400	\$ 15,388.20	\$ 0.1030	149400	\$ 15,388.20	\$ -	0.00%	\$ 0.1030	149400	\$ 15,388.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>				<b>\$ 24,843.71</b>			<b>\$ 33,712.11</b>	<b>\$ 8,868.40</b>	<b>35.70%</b>			<b>\$ 26,978.63</b>	<b>-\$ 6,733.49</b>	<b>-19.97%</b>
HST		13%		\$ 3,229.68	13%		\$ 4,382.57	\$ 1,152.89	35.70%	13%		\$ 3,507.22	-\$ 875.35	-19.97%
<b>Total Bill (including HST)</b>				<b>\$ 28,073.39</b>			<b>\$ 38,094.69</b>	<b>\$ 10,021.29</b>	<b>35.70%</b>			<b>\$ 30,485.85</b>	<b>-\$ 7,608.84</b>	<b>-19.97%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>								<b>\$ -</b>					<b>\$ -</b>	
<b>Total Bill on TOU (including OCEB)</b>				<b>\$ 28,073.39</b>			<b>\$ 38,094.69</b>	<b>\$ 10,021.29</b>	<b>35.70%</b>			<b>\$ 30,485.85</b>	<b>-\$ 7,608.84</b>	<b>-19.97%</b>
<b>Total Bill on RPP (before Taxes)</b>				<b>\$ 26,034.71</b>			<b>\$ 34,903.11</b>	<b>\$ 8,868.40</b>	<b>34.06%</b>			<b>\$ 28,169.63</b>	<b>-\$ 6,733.49</b>	<b>-19.29%</b>
HST		13%		\$ 3,384.51	13%		\$ 4,537.40	\$ 1,152.89	34.06%	13%		\$ 3,662.05	-\$ 875.35	-19.29%
<b>Total Bill (including HST)</b>				<b>\$ 29,419.22</b>			<b>\$ 39,440.52</b>	<b>\$ 10,021.29</b>	<b>34.06%</b>			<b>\$ 31,831.68</b>	<b>-\$ 7,608.84</b>	<b>-19.29%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>								<b>\$ -</b>					<b>\$ -</b>	
<b>Total Bill on RPP (including OCEB)</b>				<b>\$ 29,419.22</b>			<b>\$ 39,440.52</b>	<b>\$ 10,021.29</b>	<b>34.06%</b>			<b>\$ 31,831.68</b>	<b>-\$ 7,608.84</b>	<b>-19.29%</b>
<b>Loss Factor (%)</b>			<b>3.44%</b>				<b>3.93%</b>					<b>3.93%</b>		
<b>Distribution Excluding Rate Riders</b>														
	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 1.02	5,000	\$ 5,100.00	\$ 0.90	5,000	\$ 4,500.00	-\$ 600.00	-11.76%	\$ 1.03	5,000	\$ 5,150.00	\$ 650.00	14.44%
Distribution Volumetric Rate	per kW	\$ 4.6750	375	\$ 1,753.13	\$ 9.5484	375	\$ 3,580.65	\$ 1,827.53	104.24%	\$ 10.9179	375	\$ 4,094.21	\$ 513.56	14.34%
<b>"Regular" Distribution Only</b>				<b>\$ 6,853.13</b>			<b>\$ 8,080.65</b>	<b>\$ 1,227.53</b>	<b>17.91%</b>			<b>\$ 9,244.21</b>	<b>\$ 1,163.56</b>	<b>14.40%</b>

Customer Class:

Street Lighting

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge (per light)	\$ 1.16	5,000	\$ 5,800.00	\$ 650.00	12.62%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 12.2662	375	\$ 4,599.83	\$ 505.61	12.35%
Rate Rider Tax Change (2015)	\$ -	375	\$ -	\$ -	
LRAM VA (2016)	\$ -	375	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	375	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 10,399.83</b>	<b>\$1,155.61</b>	<b>12.50%</b>
Deferral/Variance Account Disposition	\$ -	375	\$ -	\$ -	
Rate Rider (2016)		375	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 1.3222	375	-\$ 495.83	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	375	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	375	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.3372	375	\$ 126.45	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	5895	\$ 560.02	\$ -	0.00%
Smart Meter Entry Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 10,590.48</b>	<b>\$1,155.61</b>	<b>12.25%</b>
RTSR - Network	\$ 2.0078	375	\$ 752.93	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 1.6053	375	\$ 601.99	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 11,945.39</b>	<b>\$1,155.61</b>	<b>10.71%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	155895	\$ 685.94	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	155895	\$ 202.66	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	150000	\$ 1,050.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	96000	\$ 7,392.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	27000	\$ 3,078.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	27000	\$ 3,780.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	149400	\$ 15,388.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 28,134.24</b>	<b>\$1,155.61</b>	<b>4.28%</b>
HST	13%		\$ 3,657.45	\$ 150.23	4.28%
<b>Total Bill (including HST)</b>			<b>\$ 31,791.69</b>	<b>\$1,305.84</b>	<b>4.28%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 31,791.69</b>	<b>\$1,305.84</b>	<b>4.28%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 29,325.24</b>	<b>\$1,155.61</b>	<b>4.10%</b>
HST	13%		\$ 3,812.28	\$ 150.23	4.10%
<b>Total Bill (including HST)</b>			<b>\$ 33,137.52</b>	<b>\$1,305.84</b>	<b>4.10%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 33,137.52</b>	<b>\$1,305.84</b>	<b>4.10%</b>
<b>Loss Factor (%)</b>	3.93%			3.93%	
<b>Distribution Excluding Rate Riders</b>					
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 1.16	5,000	\$ 5,800.00	\$ 650.00	12.62%
Distribution Volumetric Rate	\$ 12.2662	375	\$ 4,599.83	\$ 505.61	12.35%
<b>"Regular" Distribution Only</b>			<b>\$ 10,399.83</b>	<b>\$1,155.61</b>	<b>12.50%</b>

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge (per light)	\$ 1.28	5,000	\$ 6,400.00	\$ 600.00	10.34%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 13.5517	375	\$ 5,081.89	\$ 482.06	10.48%
Rate Rider Tax Change (2015)	\$ -	375	\$ -	\$ -	
LRAM VA (2016)	\$ -	375	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	375	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 11,481.89</b>	<b>\$1,082.06</b>	<b>10.40%</b>
Deferral/Variance Account Disposition	\$ -	375	\$ -	\$ -	
Rate Rider (2016)		375	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 1.3222	375	-\$ 495.83	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	375	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	375	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.3372	375	\$ 126.45	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	5895	\$ 560.02	\$ -	0.00%
Smart Meter Entry Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 11,672.54</b>	<b>\$1,082.06</b>	<b>10.22%</b>
RTSR - Network	\$ 2.0078	375	\$ 752.93	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 1.6053	375	\$ 601.99	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 13,027.45</b>	<b>\$1,082.06</b>	<b>9.06%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	155895	\$ 685.94	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	155895	\$ 202.66	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	150000	\$ 1,050.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	96000	\$ 7,392.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	27000	\$ 3,078.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	27000	\$ 3,780.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	149400	\$ 15,388.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 29,216.30</b>	<b>\$1,082.06</b>	<b>3.85%</b>
HST	13%		\$ 3,798.12	\$ 140.67	3.85%
<b>Total Bill (including HST)</b>			<b>\$ 33,014.42</b>	<b>\$1,222.73</b>	<b>3.85%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 33,014.42</b>	<b>\$1,222.73</b>	<b>3.85%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 30,407.30</b>	<b>\$1,082.06</b>	<b>3.69%</b>
HST	13%		\$ 3,952.95	\$ 140.67	3.69%
<b>Total Bill (including HST)</b>			<b>\$ 34,360.25</b>	<b>\$1,222.73</b>	<b>3.69%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 34,360.25</b>	<b>\$1,222.73</b>	<b>3.69%</b>
<b>Loss Factor (%)</b>	3.93%			3.93%	
<b>Distribution Excluding Rate Riders</b>					
	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 1.39	5,000	\$ 6,950.00	\$ 550.00	8.59%
Distribution Volumetric Rate	\$ 14.7615	375	\$ 5,535.56	\$ 453.68	8.93%
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 12,485.56</b>	<b>\$1,003.68</b>	<b>8.74%</b>
Deferral/Variance Account Disposition	\$ -	375	\$ -	\$ -	
Rate Rider (2016)		375	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 1.3222	375	-\$ 495.83	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	375	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	375	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.3372	375	\$ 126.45	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	5895	\$ 560.02	\$ -	0.00%
Smart Meter Entry Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 12,676.21</b>	<b>\$1,003.68</b>	<b>8.60%</b>
RTSR - Network	\$ 2.0078	375	\$ 752.93	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 1.6053	375	\$ 601.99	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 14,031.13</b>	<b>\$1,003.68</b>	<b>7.70%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	155895	\$ 685.94	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	155895	\$ 202.66	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	150000	\$ 1,050.00	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	96000	\$ 7,392.00	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	27000	\$ 3,078.00	\$ -	0.00%
TOU - On Peak	\$ 0.1400	27000	\$ 3,780.00	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	149400	\$ 15,388.20	\$ -	0.00%
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 30,219.98</b>	<b>\$1,003.68</b>	<b>3.44%</b>
HST	13%		\$ 3,928.60	\$ 130.48	3.44%
<b>Total Bill (including HST)</b>			<b>\$ 34,148.57</b>	<b>\$1,134.15</b>	<b>3.44%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 34,148.57</b>	<b>\$1,134.15</b>	<b>3.44%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 31,410.98</b>	<b>\$1,003.68</b>	<b>3.30%</b>
HST	13%		\$ 4,083.43	\$ 130.48	3.30%
<b>Total Bill (including HST)</b>			<b>\$ 35,494.40</b>	<b>\$1,134.15</b>	<b>3.30%</b>
<b>Ontario Clean Energy Benefit <sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 35,494.40</b>	<b>\$1,134.15</b>	<b>3.30%</b>
<b>Loss Factor (%)</b>	3.93%			3.93%	
<b>Distribution Excluding Rate Riders</b>					
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 1.16	5,000	\$ 5,800.00	\$ 650.00	12.62%
Distribution Volumetric Rate	\$ 12.2662	375	\$ 4,599.83	\$ 505.61	12.35%
<b>"Regular" Distribution Only</b>			<b>\$ 10,399.83</b>	<b>\$1,155.61</b>	<b>12.50%</b>

# Appendix 2-W Bill Impacts

Customer Class: **Street Lighting**

**Street Lighting**

TOU / non-TOU: **TOU**

Lights **15** number of  
Consumption **400** kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)  
Load **1** kW

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge (per light)	Monthly	\$ 1.02	15	\$ 15.30	\$ 0.90	15	\$ 13.50	-\$ 1.80	-11.76%	\$ 1.03	15	\$ 15.45	\$ 1.95	14.44%
Smart Meter (SMIRR) Rate Rider		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
		\$ -	1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kW	\$ 4.6750	1	\$ 4.68	\$ 9.5484	1	\$ 9.55	\$ 4.87	104.24%	\$ 10.9179	1	\$ 10.92	\$ 1.37	14.34%
Rate Rider Tax Change (2015)		-\$ 0.0278	1	\$ 0.03	\$ -	1	\$ -	\$ 0.03	-100.00%	\$ -	1	\$ -	\$ -	
LRAM VA (2016)	per kW	\$ -	1	\$ -	\$ 6.6417	1	\$ 6.64	\$ 6.64		\$ -	1	\$ -	-\$ 6.64	-100.00%
Rate Rider Incremental Capital 2012 True-Up (2016)	per kW	\$ -	1	\$ -	\$ 0.2240	1	\$ 0.22	\$ 0.22		\$ -	1	\$ -	-\$ 0.22	-100.00%
<b>Sub-Total A (excluding pass through)</b>				\$ 19.95			\$ 29.91	\$ 9.97	49.97%			\$ 26.37	-\$ 3.55	-11.85%
Deferral/Variance Account Disposition	per kW	\$ -	1	\$ -	\$ 14.1931	1	\$ 14.19	\$ 14.19		\$ -	1	\$ -	-\$ 14.19	-100.00%
Rate Rider (2016)			1	\$ -		1	\$ -	\$ -			1	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	per kW	\$ -	1	\$ -	-\$ 1.3222	1	\$ 1.32	-\$ 1.32		-\$ 1.3222	1	\$ 1.32	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	per kW	\$ 5.5544		\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	per kW	\$ -	1	\$ -	\$ 4.9465		\$ -	\$ -		\$ -	1	\$ -	\$ -	
Low Voltage Service Charge	per kW	\$ 0.1820	1	\$ 0.18	\$ 0.3372	1	\$ 0.34	\$ 0.16	85.27%	\$ 0.3372	1	\$ 0.34	\$ -	0.00%
Line Losses on Cost of Power	per kWh	\$ 0.0950	13.76	\$ 1.31	\$ 0.0950	15.72	\$ 1.49	\$ 0.19	14.24%	\$ 0.0950	15.72	\$ 1.49	\$ -	0.00%
Smart Meter Entity Charge			1	\$ -	\$ -	1	\$ -	\$ -		\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>				\$ 21.44			\$ 44.62	\$ 23.18	108.13%			\$ 26.88	-\$ 17.74	-39.76%
RTSR - Network	per kW	\$ 1.9006	1	\$ 1.90	\$ 2.0078	1	\$ 2.01	\$ 0.11	5.64%	\$ 2.0078	1	\$ 2.01	\$ -	0.00%
RTSR - Line and Transformation Connection	per kW	\$ 1.4538	1	\$ 1.45	\$ 1.6053	1	\$ 1.61	\$ 0.15	10.42%	\$ 1.6053	1	\$ 1.61	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>				\$ 24.79			\$ 48.23	\$ 23.44	94.54%			\$ 30.49	-\$ 17.74	-36.78%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0044	414	\$ 1.82	\$ 0.0044	416	\$ 1.83	\$ 0.01	0.47%	\$ 0.0044	416	\$ 1.83	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	414	\$ 0.54	\$ 0.0013	416	\$ 0.54	\$ 0.00	0.47%	\$ 0.0013	416	\$ 0.54	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	400	\$ 2.80	\$ 0.0070	400	\$ 2.80	\$ -	0.00%	\$ 0.0070	400	\$ 2.80	\$ -	0.00%
TOU - Off Peak	per kWh	\$ 0.0770	256	\$ 19.71	\$ 0.0770	256	\$ 19.71	\$ -	0.00%	\$ 0.0770	256	\$ 19.71	\$ -	0.00%
TOU - Mid Peak	per kWh	\$ 0.1140	72	\$ 8.21	\$ 0.1140	72	\$ 8.21	\$ -	0.00%	\$ 0.1140	72	\$ 8.21	\$ -	0.00%
TOU - On Peak	per kWh	\$ 0.1400	72	\$ 10.08	\$ 0.1400	72	\$ 10.08	\$ -	0.00%	\$ 0.1400	72	\$ 10.08	\$ -	0.00%
Energy - RPP - Tier 1	per kWh	\$ 0.0880	400	\$ 35.20	\$ 0.0880	400	\$ 35.20	\$ -	0.00%	\$ 0.0880	400	\$ 35.20	\$ -	0.00%
Energy - RPP - Tier 2	per kWh	\$ 0.1030	0	\$ -	\$ 0.1030	0	\$ -	\$ -		\$ 0.1030	0	\$ -	\$ -	
<b>Total Bill on TOU (before Taxes)</b>				\$ 68.20			\$ 91.65	\$ 23.45	34.38%			\$ 73.91	-\$ 17.74	-19.36%
HST		13%		\$ 8.87	13%		\$ 11.91	\$ 3.05	34.38%	13%		\$ 9.61	-\$ 2.31	-19.36%
<b>Total Bill (including HST)</b>				\$ 77.07			\$ 103.56	\$ 26.50	34.38%			\$ 83.52	-\$ 20.05	-19.36%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>								\$ -					\$ -	
<b>Total Bill on TOU (including OCEB)</b>				\$ 77.07			\$ 103.56	\$ 26.50	34.38%			\$ 83.52	-\$ 20.05	-19.36%
<b>Total Bill on RPP (before Taxes)</b>				\$ 65.40			\$ 88.85	\$ 23.45	35.86%			\$ 71.11	-\$ 17.74	-19.97%
HST		13%		\$ 8.50	13%		\$ 11.55	\$ 3.05	35.86%	13%		\$ 9.24	-\$ 2.31	-19.97%
<b>Total Bill (including HST)</b>				\$ 73.90			\$ 100.40	\$ 26.50	35.86%			\$ 80.35	-\$ 20.05	-19.97%
<b>Ontario Clean Energy Benefit <sup>1</sup></b>								\$ -					\$ -	
<b>Total Bill on RPP (including OCEB)</b>				\$ 73.90			\$ 100.40	\$ 26.50	35.86%			\$ 80.35	-\$ 20.05	-19.97%

Loss Factor (%)

3.44%

3.93%

3.93%

Distribution Excluding Rate Riders

	Charge Unit	2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 1.02	15	\$ 15.30	\$ 0.90	15	\$ 13.50	-\$ 1.80	-11.76%	\$ 1.03	15	\$ 15.45	\$ 1.95	14.44%
Distribution Volumetric Rate	per kW	\$ 4.6750	1	\$ 4.68	\$ 9.5484	1	\$ 9.55	\$ 4.87	104.24%	\$ 10.9179	1	\$ 10.92	\$ 1.37	14.34%
<b>"Regular" Distribution Only</b>				\$ 19.98			\$ 23.05	\$ 3.07	15.39%			\$ 26.37	\$ 3.32	14.40%

Customer Class:

Street Lighting

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge (per light)	\$ 1.16	15	\$ 17.40	\$ 1.95	12.62%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 12.2662	1	\$ 12.27	\$ 1.35	12.35%
Rate Rider Tax Change (2015)	\$ -	1	\$ -	\$ -	
LRAM VA (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	1	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 29.67</b>	<b>\$ 3.30</b>	<b>12.51%</b>
Deferral/Variance Account Disposition	\$ -	1	\$ -	\$ -	
Rate Rider (2016)		1	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 1.3222	1	-\$ 1.32	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	1	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	1	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.3372	1	\$ 0.34	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	15.72	\$ 1.49	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 30.17</b>	<b>\$ 3.30</b>	<b>12.27%</b>
RTSR - Network	\$ 2.0078	1	\$ 2.01	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 1.6053	1	\$ 1.61	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 33.79</b>	<b>\$ 3.30</b>	<b>10.82%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	416	\$ 1.83	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	416	\$ 0.54	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	400	\$ 2.80	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	256	\$ 19.71	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	72	\$ 8.21	\$ -	0.00%
TOU - On Peak	\$ 0.1400	72	\$ 10.08	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	400	\$ 35.20	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	0	\$ -	\$ -	
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 77.21</b>	<b>\$ 3.30</b>	<b>4.46%</b>
HST	13%		\$ 10.04	\$ 0.43	4.46%
<b>Total Bill (including HST)</b>			<b>\$ 87.24</b>	<b>\$ 3.73</b>	<b>4.46%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 87.24</b>	<b>\$ 3.73</b>	<b>4.46%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 74.41</b>	<b>\$ 3.30</b>	<b>4.64%</b>
HST	13%		\$ 9.67	\$ 0.43	4.64%
<b>Total Bill (including HST)</b>			<b>\$ 84.08</b>	<b>\$ 3.73</b>	<b>4.64%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 84.08</b>	<b>\$ 3.73</b>	<b>4.64%</b>
<b>Loss Factor (%)</b>	3.93%				
<b>Distribution Excluding Rate Riders</b>					
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 1.16	15	\$ 17.40	\$ 1.95	12.62%
Distribution Volumetric Rate	\$ 12.2662	1	\$ 12.27	\$ 1.35	12.35%
<b>"Regular" Distribution Only</b>			<b>\$ 29.67</b>	<b>\$ 3.30</b>	<b>12.51%</b>

	2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge (per light)	\$ 1.28	15	\$ 19.20	\$ 1.80	10.34%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 13.5517	1	\$ 13.55	\$ 1.29	10.48%
Rate Rider Tax Change (2015)	\$ -	1	\$ -	\$ -	
LRAM VA (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	1	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 32.75</b>	<b>\$ 3.09</b>	<b>10.40%</b>
Deferral/Variance Account Disposition	\$ -	1	\$ -	\$ -	
Rate Rider (2016)		1	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 1.3222	1	-\$ 1.32	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	1	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	1	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.3372	1	\$ 0.34	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	15.72	\$ 1.49	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 33.26</b>	<b>\$ 3.09</b>	<b>10.23%</b>
RTSR - Network	\$ 2.0078	1	\$ 2.01	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 1.6053	1	\$ 1.61	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 36.87</b>	<b>\$ 3.09</b>	<b>9.13%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	416	\$ 1.83	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	416	\$ 0.54	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	400	\$ 2.80	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	256	\$ 19.71	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	72	\$ 8.21	\$ -	0.00%
TOU - On Peak	\$ 0.1400	72	\$ 10.08	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	400	\$ 35.20	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	0	\$ -	\$ -	
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 80.29</b>	<b>\$ 3.09</b>	<b>4.00%</b>
HST	13%		\$ 10.44	\$ 0.40	4.00%
<b>Total Bill (including HST)</b>			<b>\$ 90.73</b>	<b>\$ 3.49</b>	<b>4.00%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 90.73</b>	<b>\$ 3.49</b>	<b>4.00%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 77.49</b>	<b>\$ 3.09</b>	<b>4.15%</b>
HST	13%		\$ 10.07	\$ 0.40	4.15%
<b>Total Bill (including HST)</b>			<b>\$ 87.57</b>	<b>\$ 3.49</b>	<b>4.15%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 87.57</b>	<b>\$ 3.49</b>	<b>4.15%</b>
<b>Loss Factor (%)</b>	3.93%				
<b>Distribution Excluding Rate Riders</b>					
	2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge (per light)	\$ 1.39	15	\$ 20.85	\$ 1.65	8.59%
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -	
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -	
	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	\$ 14.7615	1	\$ 14.76	\$ 1.21	8.93%
Rate Rider Tax Change (2015)	\$ -	1	\$ -	\$ -	
LRAM VA (2016)	\$ -	1	\$ -	\$ -	
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	1	\$ -	\$ -	
<b>Sub-Total A (excluding pass through)</b>			<b>\$ 35.61</b>	<b>\$ 2.86</b>	<b>8.73%</b>
Deferral/Variance Account Disposition	\$ -	1	\$ -	\$ -	
Rate Rider (2016)		1	\$ -	\$ -	
Rate Rider CGAAP Account 1576 (2016)	-\$ 1.3222	1	-\$ 1.32	\$ -	0.00%
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	1	\$ -	\$ -	
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	1	\$ -	\$ -	
Low Voltage Service Charge	\$ 0.3372	1	\$ 0.34	\$ -	0.00%
Line Losses on Cost of Power	\$ 0.0950	15.72	\$ 1.49	\$ -	0.00%
Smart Meter Entity Charge	\$ -	1	\$ -	\$ -	
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			<b>\$ 36.12</b>	<b>\$ 2.86</b>	<b>8.60%</b>
RTSR - Network	\$ 2.0078	1	\$ 2.01	\$ -	0.00%
RTSR - Line and Transformation Connection	\$ 1.6053	1	\$ 1.61	\$ -	0.00%
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			<b>\$ 39.73</b>	<b>\$ 2.86</b>	<b>7.76%</b>
Wholesale Market Service Charge (WMSC)	\$ 0.0044	416	\$ 1.83	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	416	\$ 0.54	\$ -	0.00%
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	\$ 0.0070	400	\$ 2.80	\$ -	0.00%
TOU - Off Peak	\$ 0.0770	256	\$ 19.71	\$ -	0.00%
TOU - Mid Peak	\$ 0.1140	72	\$ 8.21	\$ -	0.00%
TOU - On Peak	\$ 0.1400	72	\$ 10.08	\$ -	0.00%
Energy - RPP - Tier 1	\$ 0.0880	400	\$ 35.20	\$ -	0.00%
Energy - RPP - Tier 2	\$ 0.1030	0	\$ -	\$ -	
<b>Total Bill on TOU (before Taxes)</b>			<b>\$ 83.15</b>	<b>\$ 2.86</b>	<b>3.56%</b>
HST	13%		\$ 10.81	\$ 0.37	3.56%
<b>Total Bill (including HST)</b>			<b>\$ 93.96</b>	<b>\$ 3.23</b>	<b>3.56%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on TOU (including OCEB)</b>			<b>\$ 93.96</b>	<b>\$ 3.23</b>	<b>3.56%</b>
<b>Total Bill on RPP (before Taxes)</b>			<b>\$ 80.35</b>	<b>\$ 2.86</b>	<b>3.69%</b>
HST	13%		\$ 10.45	\$ 0.37	3.69%
<b>Total Bill (including HST)</b>			<b>\$ 90.80</b>	<b>\$ 3.23</b>	<b>3.69%</b>
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Total Bill on RPP (including OCEB)</b>			<b>\$ 90.80</b>	<b>\$ 3.23</b>	<b>3.69%</b>
<b>Loss Factor (%)</b>	3.93%				
<b>Distribution Excluding Rate Riders</b>					
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2	
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$ 1.16	15	\$ 17.40	\$ 1.95	12.62%
Distribution Volumetric Rate	\$ 12.2662	1	\$ 12.27	\$ 1.35	12.35%
<b>"Regular" Distribution Only</b>			<b>\$ 29.67</b>	<b>\$ 3.30</b>	<b>12.51%</b>

Customer Class:	Unmetered Scattered Load	Unmetered Scattered Load
TOU / non-TOU:	TOU	

**Consumption**  kWh ☒ May 1 - October ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

[illegible]

Loss Factor (%)	3.44%	3.93%	3.93%
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Distribution Excluding Rate Riders		2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 Test vs. 2015 Bridge			2017 Test Year 2 Proposed			Impact 2017 Test 2 vs. 2016 Test 1		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		
Monthly Service Charge	Monthly	\$ 11.5500	1	\$ 11.55	\$ 6.1500	1	\$ 6.15	-\$ 5.40	-46.75%	\$ 6.3500	1	\$ 6.35	\$ 0.20	3.25%		
Distribution Volumetric Rate	per kWh	\$ 0.0141	150	\$ 2.12	\$ 0.0122	150	\$ 1.83	-\$ 0.29	-13.48%	\$ 0.0127	150	\$ 1.91	\$ 0.08	4.10%		
<b>Regular Distribution Only</b>				\$ 13.67			\$ 7.98	<b>-\$ 5.69</b>	<b>-41.60%</b>			\$ 8.26	<b>\$ 0.27</b>	<b>3.45%</b>		

Customer Class:

Unmetered Scattered Load

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 6.5600	1	\$ 6.56	\$ 0.21	3.31%		\$ 6.7300	1	\$ 6.73	\$ 0.17	2.59%		\$ 6.8500	1	\$ 6.85	\$ 0.12	1.78%	
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
Distribution Volumetric Rate	\$ 0.0130	150	\$ 1.95	\$ 0.04	2.36%		\$ 0.0133	150	\$ 2.00	\$ 0.04	2.31%		\$ 0.0136	150	\$ 2.04	\$ 0.05	2.26%	
Rate Rider Tax Charge (2015)	\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -		
LRAM VA (2016)	\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -		
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -		
		150	\$ -	\$ -				150	\$ -	\$ -				150	\$ -	\$ -		
		150	\$ -	\$ -				150	\$ -	\$ -				150	\$ -	\$ -		
		150	\$ -	\$ -				150	\$ -	\$ -				150	\$ -	\$ -		
		150	\$ -	\$ -				150	\$ -	\$ -				150	\$ -	\$ -		
		150	\$ -	\$ -				150	\$ -	\$ -				150	\$ -	\$ -		
		150	\$ -	\$ -				150	\$ -	\$ -				150	\$ -	\$ -		
<b>Sub-Total A (excluding pass through)</b>			\$ 8.51	\$ 0.26	3.09%				\$ 8.73	\$ 0.22	2.53%				\$ 8.89	\$ 0.17	1.89%	
Deferral/Variance Account Disposition	\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -		
Rate Rider (2016)		150	\$ -	\$ -				150	\$ -	\$ -				150	\$ -	\$ -		
Rate Rider CGAAP Account 1576 (2016)	\$ 0.0013	150	\$ 0.20	\$ -	0.00%		\$ 0.0013	150	\$ 0.20	\$ -	0.00%		\$ 0.0013	150	\$ 0.20	\$ -	0.00%	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -		
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -			\$ -	150	\$ -	\$ -		
Low Voltage Service Charge	\$ 0.0012	150	\$ 0.18	\$ -	0.00%		\$ 0.0012	150	\$ 0.18	\$ -	0.00%		\$ 0.0012	150	\$ 0.18	\$ -	0.00%	
Line Losses on Cost of Power	\$ 0.0950	5.895	\$ 0.56	\$ -	0.00%		\$ 0.0950	5.895	\$ 0.56	\$ -	0.00%		\$ 0.0950	5.895	\$ 0.56	\$ -	0.00%	
Smart Meter Entry Charge	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 9.06	\$ 0.26	2.90%				\$ 9.27	\$ 0.22	2.37%				\$ 9.44	\$ 0.17	1.78%	
RTSR - Network	\$ 0.0071	156	\$ 1.11	\$ -	0.00%		\$ 0.0071	156	\$ 1.11	\$ -	0.00%		\$ 0.0071	156	\$ 1.11	\$ -	0.00%	
RTSR - Line and Transformation Connection	\$ 0.0056	156	\$ 0.87	\$ -	0.00%		\$ 0.0056	156	\$ 0.87	\$ -	0.00%		\$ 0.0056	156	\$ 0.87	\$ -	0.00%	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 11.03	\$ 0.25	2.37%				\$ 11.25	\$ 0.22	1.95%				\$ 11.41	\$ 0.17	1.47%	
Wholesale Market Service Charge (WMSC)	\$ 0.0044	156	\$ 0.69	\$ -	0.00%		\$ 0.0044	156	\$ 0.69	\$ -	0.00%		\$ 0.0044	156	\$ 0.69	\$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	156	\$ 0.20	\$ -	0.00%		\$ 0.0013	156	\$ 0.20	\$ -	0.00%		\$ 0.0013	156	\$ 0.20	\$ -	0.00%	
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
Debt Retirement Charge (DRC)	\$ 0.0070	150	\$ 1.05	\$ -	0.00%		\$ 0.0070	150	\$ 1.05	\$ -	0.00%		\$ 0.0070	150	\$ 1.05	\$ -	0.00%	
TOU - Off Peak	\$ 0.0770	96	\$ 7.39	\$ -	0.00%		\$ 0.0770	96	\$ 7.39	\$ -	0.00%		\$ 0.0770	96	\$ 7.39	\$ -	0.00%	
TOU - Mid Peak	\$ 0.1140	27	\$ 3.08	\$ -	0.00%		\$ 0.1140	27	\$ 3.08	\$ -	0.00%		\$ 0.1140	27	\$ 3.08	\$ -	0.00%	
TOU - On Peak	\$ 0.1400	27	\$ 3.78	\$ -	0.00%		\$ 0.1400	27	\$ 3.78	\$ -	0.00%		\$ 0.1400	27	\$ 3.78	\$ -	0.00%	
Energy - RPP - Tier 1	\$ 0.0880	150	\$ 13.20	\$ -	0.00%		\$ 0.0880	150	\$ 13.20	\$ -	0.00%		\$ 0.0880	150	\$ 13.20	\$ -	0.00%	
Energy - RPP - Tier 2	\$ 0.1030	0	\$ -	\$ -			\$ 0.1030	0	\$ -	\$ -			\$ 0.1030	0	\$ -	\$ -		
<b>Total Bill on TOU (before Taxes)</b>			\$ 27.47	\$ 0.25	0.94%				\$ 27.69	\$ 0.22	0.78%				\$ 27.85	\$ 0.17	0.60%	
HST	13%		\$ 3.57	\$ 0.03	0.94%		13%		\$ 3.60	\$ 0.03	0.78%		13%		\$ 3.62	\$ 0.02	0.60%	
<b>Total Bill (including HST)</b>			\$ 31.05	\$ 0.29	0.94%				\$ 31.29	\$ 0.24	0.78%				\$ 31.47	\$ 0.19	0.60%	
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -					\$ -	\$ -					\$ -	\$ -		
<b>Total Bill on TOU (including OCEB)</b>			\$ 31.05	\$ 0.29	0.94%				\$ 31.29	\$ 0.24	0.78%				\$ 31.47	\$ 0.19	0.60%	
<b>Total Bill on RPP (before Taxes)</b>			\$ 26.42	\$ 0.25	0.97%				\$ 26.64	\$ 0.22	0.81%				\$ 26.80	\$ 0.17	0.62%	
HST	13%		\$ 3.44	\$ 0.03	0.97%		13%		\$ 3.46	\$ 0.03	0.81%		13%		\$ 3.48	\$ 0.02	0.62%	
<b>Total Bill (including HST)</b>			\$ 29.86	\$ 0.29	0.97%				\$ 30.10	\$ 0.24	0.81%				\$ 30.29	\$ 0.19	0.62%	
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -					\$ -	\$ -					\$ -	\$ -		
<b>Total Bill on RPP (including OCEB)</b>			\$ 29.86	\$ 0.29	0.97%				\$ 30.10	\$ 0.24	0.81%				\$ 30.29	\$ 0.19	0.62%	
<b>Loss Factor (%)</b>		3.93%						3.93%						3.93%				
<b>Distribution Excluding Rate Riders</b>																		
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 6.5600	1	\$ 6.56	\$ 0.21	3.31%		\$ 6.7300	1	\$ 6.73	\$ 0.17	2.59%		\$ 6.8500	1	\$ 6.85	\$ 0.12	1.78%	
Distribution Volumetric Rate	\$ 0.0130	150	\$ 1.95	\$ 0.04	2.36%		\$ 0.0133	150	\$ 2.00	\$ 0.04	2.31%		\$ 0.0136	150	\$ 2.04	\$ 0.05	2.26%	
<b>"Regular" Distribution Only</b>			\$ 8.51	\$ 0.26	3.09%				\$ 8.73	\$ 0.22	2.53%				\$ 8.89	\$ 0.17	1.89%	

Customer Class:	Unmetered Scattered Load	Unmetered Scattered Load
TOU / non-TOU:	TOU	

**Consumption**  kWh ☒ May 1 - October ☐ November 1 - April 30 (Select this radio button for applications filed after Oct 31)

[illegible]

Loss Factor (%)	3.44%	3.93%	3.93%
-----------------	-------	-------	-------

Distribution Excluding Rate Riders		2015 Current Board-Approved			2016 Test Year 1 Proposed			Impact 2016 TEST vs. 2015 Bridge		2017 Test Year 2 Proposed			Impact 2017 TEST 2 vs. 2016 Test 1	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 11.5500	1	\$ 11.55	\$ 6.1500	1	\$ 6.15	-\$ 5.40	-46.75%	\$ 6.3500	1	\$ 6.35	\$ 0.20	3.25%
Distribution Volumetric Rate	per kWh	\$ 0.0141	750	\$ 10.58	\$ 0.0122	750	\$ 9.15	-\$ 1.43	-13.48%	\$ 0.0127	750	\$ 9.53	\$ 0.38	4.10%
Regular Distribution Only				\$ 22.13			\$ 15.30	-\$ 6.83	-30.85%			\$ 15.88	\$ 0.57	3.76%

Customer Class:

Unmetered Scattered Load

TOU / non-TOU:

	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 6.5600	1	\$ 6.56	\$ 0.21	3.31%		\$ 6.7300	1	\$ 6.73	\$ 0.17	2.59%		\$ 6.8500	1	\$ 6.85	\$ 0.12	1.78%	
Smart Meter (SMIRR) Rate Rider	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Smart Meters Capital (2016)	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
Rate Rider Recovery of Stranded Meters	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
		1	\$ -	\$ -				1	\$ -	\$ -				1	\$ -	\$ -		
Distribution Volumetric Rate	\$ 0.0130	750	\$ 9.75	\$ 0.23	2.36%		\$ 0.0133	750	\$ 9.98	\$ 0.23	2.31%		\$ 0.0136	750	\$ 10.20	\$ 0.23	2.26%	
Rate Rider Tax Charge (2015)	\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -		
LRAM VA (2016)	\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -		
Rate Rider Incremental Capital 2012 True-Up (2016)	\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -		
		750	\$ -	\$ -				750	\$ -	\$ -				750	\$ -	\$ -		
		750	\$ -	\$ -				750	\$ -	\$ -				750	\$ -	\$ -		
		750	\$ -	\$ -				750	\$ -	\$ -				750	\$ -	\$ -		
		750	\$ -	\$ -				750	\$ -	\$ -				750	\$ -	\$ -		
		750	\$ -	\$ -				750	\$ -	\$ -				750	\$ -	\$ -		
		750	\$ -	\$ -				750	\$ -	\$ -				750	\$ -	\$ -		
<b>Sub-Total A (excluding pass through)</b>			\$ 16.31	\$ 0.43	2.74%				\$ 16.71	\$ 0.40	2.42%				\$ 17.05	\$ 0.34	2.07%	
Deferral/Variance Account Disposition	\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -		
Rate Rider (2016)		750	\$ -	\$ -				750	\$ -	\$ -				750	\$ -	\$ -		
Rate Rider CGAAP Account 1576 (2016)	-\$ 0.0013	750	-\$ 0.98	\$ -	0.00%		-\$ 0.0013	750	-\$ 0.98	\$ -	0.00%		-\$ 0.0013	750	-\$ 0.98	\$ -	0.00%	
Disposition of Global Adjustment (2015) Applicable to Non-RPP Customers	\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -		
Disposition of Global Adjustment (2016) Applicable to Non-RPP Customers	\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -			\$ -	750	\$ -	\$ -		
Low Voltage Service Charge	\$ 0.0012	750	\$ 0.90	\$ -	0.00%		\$ 0.0012	750	\$ 0.90	\$ -	0.00%		\$ 0.0012	750	\$ 0.90	\$ -	0.00%	
Line Losses on Cost of Power	\$ 0.0950	29.475	\$ 2.80	\$ -	0.00%		\$ 0.0950	29.475	\$ 2.80	\$ -	0.00%		\$ 0.0950	29.475	\$ 2.80	\$ -	0.00%	
Smart Meter Entry Charge	\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -			\$ -	1	\$ -	\$ -		
<b>Sub-Total B - Distribution (includes Sub-Total A)</b>			\$ 19.04	\$ 0.43	2.34%				\$ 19.43	\$ 0.40	2.08%				\$ 19.78	\$ 0.34	1.78%	
RTSR - Network	\$ 0.0071	779	\$ 5.53	\$ -	0.00%		\$ 0.0071	779	\$ 5.53	\$ -	0.00%		\$ 0.0071	779	\$ 5.53	\$ -	0.00%	
RTSR - Line and Transformation Connection	\$ 0.0056	779	\$ 4.37	\$ -	0.00%		\$ 0.0056	779	\$ 4.37	\$ -	0.00%		\$ 0.0056	779	\$ 4.37	\$ -	0.00%	
<b>Sub-Total C - Delivery (including Sub-Total B)</b>			\$ 28.93	\$ 0.43	1.53%				\$ 29.33	\$ 0.40	1.37%				\$ 29.67	\$ 0.34	1.18%	
Wholesale Market Service Charge (WMSC)	\$ 0.0044	779	\$ 3.43	\$ -	0.00%		\$ 0.0044	779	\$ 3.43	\$ -	0.00%		\$ 0.0044	779	\$ 3.43	\$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	779	\$ 1.01	\$ -	0.00%		\$ 0.0013	779	\$ 1.01	\$ -	0.00%		\$ 0.0013	779	\$ 1.01	\$ -	0.00%	
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%		\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
Debt Retirement Charge (DRC)	\$ 0.0070	750	\$ 5.25	\$ -	0.00%		\$ 0.0070	750	\$ 5.25	\$ -	0.00%		\$ 0.0070	750	\$ 5.25	\$ -	0.00%	
TOU - Off Peak	\$ 0.0770	480	\$ 36.96	\$ -	0.00%		\$ 0.0770	480	\$ 36.96	\$ -	0.00%		\$ 0.0770	480	\$ 36.96	\$ -	0.00%	
TOU - Mid Peak	\$ 0.1140	135	\$ 15.39	\$ -	0.00%		\$ 0.1140	135	\$ 15.39	\$ -	0.00%		\$ 0.1140	135	\$ 15.39	\$ -	0.00%	
TOU - On Peak	\$ 0.1400	135	\$ 18.90	\$ -	0.00%		\$ 0.1400	135	\$ 18.90	\$ -	0.00%		\$ 0.1400	135	\$ 18.90	\$ -	0.00%	
Energy - RPP - Tier 1	\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%		\$ 0.0880	600	\$ 52.80	\$ -	0.00%	
Energy - RPP - Tier 2	\$ 0.1030	150	\$ 15.45	\$ -	0.00%		\$ 0.1030	150	\$ 15.45	\$ -	0.00%		\$ 0.1030	150	\$ 15.45	\$ -	0.00%	
<b>Total Bill on TOU (before Taxes)</b>			\$ 110.13	\$ 0.44	0.40%				\$ 110.52	\$ 0.39	0.36%				\$ 110.87	\$ 0.34	0.31%	
HST	13%		\$ 14.32	\$ 0.06	0.40%		13%		\$ 14.37	\$ 0.05	0.36%		13%		\$ 14.41	\$ 0.04	0.31%	
<b>Total Bill (including HST)</b>			\$ 124.44	\$ 0.49	0.40%				\$ 124.89	\$ 0.45	0.36%				\$ 125.28	\$ 0.39	0.31%	
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -					\$ -	\$ -					\$ -	\$ -		
<b>Total Bill on TOU (including OCEB)</b>			\$ 124.44	\$ 0.49	0.40%				\$ 124.89	\$ 0.45	0.36%				\$ 125.28	\$ 0.39	0.31%	
<b>Total Bill on RPP (before Taxes)</b>			\$ 107.13	\$ 0.44	0.41%				\$ 107.52	\$ 0.39	0.37%				\$ 107.87	\$ 0.34	0.32%	
HST	13%		\$ 13.93	\$ 0.06	0.41%		13%		\$ 13.98	\$ 0.05	0.37%		13%		\$ 14.02	\$ 0.04	0.32%	
<b>Total Bill (including HST)</b>			\$ 121.05	\$ 0.49	0.41%				\$ 121.50	\$ 0.45	0.37%				\$ 121.89	\$ 0.39	0.32%	
<b>Ontario Clean Energy Benefit<sup>1</sup></b>			\$ -	\$ -					\$ -	\$ -					\$ -	\$ -		
<b>Total Bill on RPP (including OCEB)</b>			\$ 121.05	\$ 0.49	0.41%				\$ 121.50	\$ 0.45	0.37%				\$ 121.89	\$ 0.39	0.32%	
<b>Loss Factor (%)</b>			3.93%						3.93%						3.93%			
<b>Distribution Excluding Rate Riders</b>																		
	2018 Test Year 3 Proposed			Impact 2018 TEST 3 vs. 2017 Test 2			2019 Test Year 4 Proposed			Impact 2019 TEST 4 vs. 2018 Test 3			2020 Test Year 5 Proposed			Impact 2019 TEST 5 vs. 2019 Test 4		
	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 6.5600	1	\$ 6.56	\$ 0.21	3.31%		\$ 6.7300	1	\$ 6.73	\$ 0.17	2.59%		\$ 6.8500	1	\$ 6.85	\$ 0.12	1.78%	
Distribution Volumetric Rate	\$ 0.0130	750	\$ 9.75	\$ 0.23	2.36%		\$ 0.0133	750	\$ 9.98	\$ 0.23	2.31%		\$ 0.0136	750	\$ 10.20	\$ 0.23	2.26%	
<b>"Regular" Distribution Only</b>			\$ 16.31	\$ 0.43	2.74%				\$ 16.71	\$ 0.40	2.42%				\$ 17.05	\$ 0.34	2.07%	

---

**EXHIBIT 1 - ADMINISTRATION****Response to Ontario Energy Board Staff Interrogatory 1-Staff-5****Interrogatory:**

**Ref: Exhibit 1, Tab 3, Schedule 1 and Letter from the OEB: Allowance for Working Capital for Electricity Distribution Rate Applications**

In a letter, issued June 3, 2015, the OEB provided an update to its policy for calculating the allowance for working capital for electricity rate applications. The OEB determined a new default value of 7.5% of the sum of the cost of power and operating, maintenance and administration (OM&A) costs. For a custom incentive rate-setting (Custom IR) application distributors are expected to file robust evidence of costs and revenues in support of their requested working capital allowance.

In its letter, the OEB also stated that while the use of the default value will no longer be applicable to Custom IR applications, given the timing of this new policy, distributors that have filed a Custom IR application for rates effective January 1, 2016 may use the 7.5% default value to calculate their working capital allowance rather than file a lead-lag study as part of their application.

Kingston Hydro calculated its working capital allowance using the former default value of 13%.

- a) Please confirm whether Kingston Hydro wishes to adopt the 7.5% value or whether it will be providing a lead-lag study to support Kingston Hydro's proposed working capital allowance.

---

29 **Response:**

30

31 Kingston Hydro is planning to provide a Lead-Lag Study to support its Working Capital  
32 Allowance. A lead-lag study is expected to be filed, as soon as it is finalized, hopefully  
33 in the next 7 to 10 days.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Customer Engagement**

4  
5 **Response to Ontario Energy Board Interrogatory 1-Staff-6**

6  
7 **Ref: Exhibit 1, Tab 4, Schedule 1 p. 4**

8  
9 **Interrogatory:**

10  
11 Chapter 2 of the Filing Requirements states, “The RRFE Report contemplates  
12 **enhanced** engagement between distributors and their customers to provide better  
13 alignment between distributor operational plans and customer needs and expectations.”  
14 (Emphasis added)

15  
16 Please describe the differences between customer engagement conducted in  
17 preparation for the current application and previous customer engagement. Please  
18 explain how customer engagement has been enhanced.

19  
20 **Response:**

21  
22 The previous customer engagement conducted by Kingston Hydro through Utilities  
23 Kingston is summarized in Exhibit 1 Tab 4 Schedule 1, in the section Traditional  
24 Customer Communications.

25  
26 As outlined in Exhibit 1 Tab 4 Schedule 1, Kingston Hydro communications with  
27 customers have been evolving from reactive (e.g., response to outages) to a more  
28 proactive outreach (e.g., providing helpful information before it is requested).

---

29 The customer engagement conducted in preparation for the current application built in  
30 an increased level of face-to-face meetings to personally converse with targeted  
31 customer groups in order to educate them about the rate application process and the  
32 investments needed to ensure the continued safety and reliability of the electricity  
33 system. These meetings are summarized in Appendix 5 of the Distribution System Plan  
34 (Exhibit 2 Tab 2 Schedule 1 Attachment 1).

35  
36 As part of this engagement exercise, Kingston Hydro evaluated its customers by type  
37 and then customized the communications to be meaningful to that segment. We then  
38 actively reached out to customers directly or through associations (e.g., Kingston  
39 Accommodation Partners, Chamber of Commerce, etc.), explained the purpose and  
40 arranged convenient locations and times to meet.

41  
42 The emphasis was that our customers' time is valuable and that we wished to ensure  
43 they found the information useful. We let our customers know we were preparing a rate  
44 application and that we would like their feedback. We also provided information about  
45 CDM programs to assist them in reducing their energy consumption. As we were  
46 concurrently preparing our next multi-year CDM plan, we used this opportunity to  
47 discuss if there were potential CDM programs customers might find helpful.

48  
49 The outreach efforts extended beyond even the previous level of 'proactive'  
50 communication. We believe that 'engagement' must include two way communications,  
51 going beyond simply providing information and must be seen as providing value. This  
52 exercise has opened the door to future interactions with our customers. Talking one-on-  
53 one with our customers on their experience with our utility was rewarding. They told us  
54 that they would like to meet with us regularly; we look forward to scheduled interactions  
55 with consumers.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Ontario Energy Board Staff Interrogatory 1-Staff-7**

4  
5 **Ref: Exhibit 1, Tab 4, Schedule 1**

6 **Exhibit 2, Tab 2, Schedule 1, Appendix 5**

7  
8 **Interrogatory:**

9  
10 In these Exhibits, Kingston Hydro provides information on its customer engagement  
11 activities and customer engagement surveys. Please provide a program or investment  
12 project roadmap that directly connects Kingston Hydro's future plans with the findings of  
13 its customer engagement surveys.

14  
15 **Response:**

16  
17 Results from customer engagement activities and the customer engagement survey are  
18 relevant to capital works planning, as well as corporate strategies for customer  
19 engagement and communications.

20  
21 A high level summary of the feedback customers provided identified their support for:

- 22  
23 • Capital improvements that improve reliability  
24 • Pacing the investment for rate stability  
25 • Rate setting for a five-year period  
26 • The commitment to keep operating costs below the actual inflation rate  
27 • Maintaining levels of customer service, including the one bill for all utilities  
28 • Expanding service throughout the municipality

- 
- Enhancing in-person support and assistance with conservation initiatives

These principles were already considered in capital planning processes and are reflected in the distribution systems plan and capital budgets.

As part of the rate-setting engagement process, we found that talking one-on-one with our customers on their experience with our utility was rewarding. They told us that they would like to meet with us regularly; we look forward to more regular, scheduled interactions with consumers.

To leverage the value of this exercise, the feedback that has been collected from customers will be used to further our multi-year customer engagement plan that will transform our approach to customer engagement beyond simply 'informing' our customers to a new level of working with empowered, knowledgeable customers.

At page 14 of the Distribution System Plan (Exhibit 2, Tab 2, Schedule 1, Attachment 1 Appendix 5) the final objective in the plan is:

10. Based on feedback from customer outreach, develop a long term plan for customer engagement to 2020. **Target Date:** Year end 2015

This exercise is just commencing and the long term plan is not yet available.

1 **EXHIBIT 1 – ADMINISTRATION**

2  
3 **CUSTOM APPLICATION and RRFE ISSUES**

4  
5 **Response to Ontario Energy Board Staff Interrogatory 1-Staff-8**

6  
7 **Ref: Exhibit 1, Tab 3, Schedule 1**

8  
9 **Interrogatory:**

- 10
- 11 a) Please provide Kingston Hydro's rational for choosing the Custom IR
- 12 methodology versus Price Cap IR using the advanced capital module (ACM)
- 13 option to address its capital needs over the next 5 years.
- 14
- 15 b) Please detail how this methodology achieves objectives of a customer focus
- 16 approach as well as the promotion of economic efficiency and cost
- 17 effectiveness.
- 18
- 19 c) Please provide a table comparing Kingston Hydro's projected rate of return on
- 20 equity and annual net income from 2016-2020, using a forward looking test year
- 21 followed by a 4-year IRM period, and compare this under the Custom IR
- 22 methodology over the same period.
- 23
- 24 d) Are there any capital investments that Kingston Hydro has included in this
- 25 application that it would not pursue under a PriceCap IR? Please detail the
- 26 impact on its service reliability indicators.

---

**Response:**

- a) Kingston Hydro chose to submit a Custom IR due to the need for ongoing year over year capital investment to replace infrastructure that is beyond the end of its useful life. (Ex.1/T2/S1/p.4). This requirement is supported by a proposed ratio of capital expenditures to depreciation of just over 2 (Ex.1/T2/S1/p.6). Kingston Hydro notes how this application is compliant with the RRFE requirements for Custom IR in the Administration section of the application (Ex.1/T2/S1/p2).

The Report of the Board New Policy Options for the Funding of Capital Investments: The Advanced Capital Module (EB-2014-0219) issued September 18, 2014 supports that a Custom IR application is best suited to meet the required level of capital spending for the projects contemplated in the next five years. From the report at page 4:

“Distributors that have specific needs for capital funding that cannot be accommodated under Price Cap IR, should consider whether their specific circumstances would be best addressed through an application for a 5-year Custom IR plan.”

And further at page 14:

“The Board will make a determination on whether projects are discrete on a case by case basis. However, there must be a clear distinction between a cost of service application under the Price Cap IR option (with ACM proposals beyond the test year), and the Custom IR method. The use of an ACM is most appropriate for a distributor that:

- does not have multiple discrete projects for each of the four IR years for which it requires incremental capital funding;
- is not seeking funding for a series of projects that are more related to recurring capital programs for replacements or refurbishments (i.e. “business as usual” type projects); or
- is not proposing to use the entire eligible incremental capital envelope available for a particular year.”

Kingston Hydro Custom IR application does include multiple discrete projects as well as projects that are more related to recurring capital programs.

At page 18 of the report it states that “Applicants should note that custom approaches to rate-setting should be addressed through selecting the Custom IR option, not by customizing an ACM or ICM proposal.”

Therefore it was concluded that the Custom IR was the most suitable rate setting methodology.

In addition, it has been the practice of Utilities Kingston to seek approval for multi-year (four year) capital budgets and rates for the water and sewer assets it manages for the City of Kingston. We are currently working on our third multi-year plan, that was approved by the current Council of the City of Kingston within three months of them being elected. Our experience with this multi-year approach has shown that it improves coordination, allows for better and earlier communications to our customers, and saves money as a result of the coordination and the contracting community being better able to plan for upcoming contracts being tendered over the four year period. Adopting the Custom IR builds on this practice and allows for long term planning,

communications, coordination savings and rate setting for all our customer accounts.

b) Kingston Hydro's Custom IR application achieves the objectives noted under the Renewed Regulatory Framework as illustrated in our application at Exhibit 1, Tab 2, Schedule 1 starting at page 8.

c) Please see table below.

As filed		2016	2017	2018	2019	2020
Rate Base		58,467,509	60,646,857	62,111,293	64,190,756	66,209,781
Equity	40%	23,387,004	24,258,743	24,844,517	25,676,302	26,483,912
Dist Revenue		12,253,671	12,704,032	13,141,422	13,583,955	13,935,749
Other Revenue		576,998	583,921	580,278	590,370	600,697
Total Revenue		12,830,669	13,287,953	13,721,700	14,174,325	14,536,446
OM+A Expenses		6,992,675	7,112,867	7,235,146	7,359,547	7,486,110
Property taxes		138,135	140,484	142,872	145,301	147,771
Opex		7,130,810	7,253,351	7,378,018	7,504,848	7,633,881
Depreciation/Amortization		1,825,384	1,967,120	2,101,260	2,193,526	2,240,240
Interest		1,487,697	1,565,740	1,617,512	1,715,308	1,780,665
PILs		211,786	245,679	314,370	372,747	418,657
Net income		2,174,992	2,256,063	2,310,540	2,387,896	2,463,003
ROE		9.30%	9.30%	9.30%	9.30%	9.30%
4-Year IRM		2016	2017	2018	2019	2020
Rate Base		58,467,509	60,646,857	62,111,293	64,190,756	66,209,781
Equity	40%	23,387,004	24,258,743	24,844,517	25,676,302	26,483,912
Dist Revenue		12,253,671	12,461,983	12,673,837	12,889,292	13,108,410
Other Revenue		576,998	583,921	580,278	590,370	600,697
Total Revenue		12,830,669	13,045,904	13,254,115	13,479,662	13,709,107
OM+A Expenses		6,992,675	7,112,867	7,235,146	7,359,547	7,486,110
Property taxes		138,135	140,484	142,872	145,301	147,771
Opex		7,130,810	7,253,351	7,378,018	7,504,848	7,633,881
Depreciation/Amortization		1,825,384	1,967,120	2,101,260	2,193,526	2,240,240
Interest		1,487,697	1,565,740	1,617,512	1,715,308	1,780,665
PILs		211,786	245,679	314,370	372,747	418,657
Net income		2,174,992	2,014,014	1,842,955	1,693,233	1,635,664
ROE		9.30%	8.30%	7.42%	6.59%	6.18%

- 
- 93 d) Kingston Hydro's Distribution System Plan details work that is required to  
94 upgrade assets that are beyond end of life and is necessary to ensure continued  
95 reliability of service. It is Kingston Hydro's intention to complete the work  
96 identified in the plan. Achieving the required capital investment under a price  
97 cap IR would result in the erosion of Kingston Hydro's rate of return.

---

**EXHIBIT 1 - ADMINISTRATION****Response to Ontario Energy Board Staff Interrogatory 1-Staff-9****Ref: Exhibit 1, Tab 3, Schedule 1****Interrogatory:**

In its RRFE report, the OEB determined that a comprehensive approach to rate- setting, recognizing the interrelationship between capital expenditures and OM&A expenditures. Rate-setting that is comprehensive creates stronger and more balanced incentives and is more compatible with the Board's implementation of an outcome-based framework.

Under a Price Cap IR, productivity determination relies on the index-based approach. As a result, base rates under the IRM mechanism are adjusted annually by an inflation factor minus an x-factor, which consists of an empirically derived industry productivity factor of zero and a utility-specific stretch factor.

In developing its Custom IR application, Kingston Hydro elected to index only its OM&A costs annually, using the IRM price cap mechanism.

a) What productivity factor or efficiency gains are built into Kingston Hydro's capital program over the next 5 years and how does that compare to an x- factor treatment of the incentive rate-setting mechanism?

b) If Kingston Hydro has not included any productivity measures, please explain why.

---

**Response:**

a) Kingston Hydro refers to Appendix 9 of the DSP, 2015 – 2020 Forecast Capital Project Description in which each project description includes a summary “Consequence for System O&M Costs”. In summary, where possible, Kingston Hydro has been able to quantify potential O&M savings as in the case of Substation 1 with the future elimination of water cooled transformers (\$33,000/year when replaced). In other capital projects, such as with the Deteriorated Overhead Infrastructure Program, there is no material impact on O&M costs. In still other areas, such as the 44KV Motor Operated Switch Upgrade, where 2 switches are planned to be replaced, Kingston Hydro notes “motor operated switches will reduce switching times and impacts to customers, however field staff will still need to patrol lines before and after switching to verify the state of the distribution system so a reduction in O&M costs is difficult to quantify”. Similarly, pad mount switch gear replacement will decrease O&M costs by creating simplified switching procedures and reduced inspection frequency, but is again difficult to quantify. Kingston Hydro, however, submits that in recognition that the capital program will yield positive outcomes in O&M activity and costs has stated that future increase in this area will incorporate a productivity factor.

This compares to the x- factor treatment of the incentive rate-setting mechanism in that in requesting only a 2016 OM&A approval, Kingston Hydro would then be subject to annual updates for its OM&A which would include a productivity factor. The savings noted above would then be realized in order to assist Kingston Hydro in achieving its allowable rate of return.

b) N/A

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Ontario Energy Board Interrogatory 1-Staff-10**

4  
5 **Ref: Exhibit 1, Attachment 1-14, OEB Issued KHC Scorecard**

6  
7 **PEG Report to the Ontario Energy Board, Empirical Research in Support of**  
8 **Incentive Rate Setting: 2013 Benchmarking Update, July 2014**

9  
10 **EB-2010-0379, Spreadsheet Model for Benchmarking Ontario Power Distributors,**  
11 **May 7, 2015**

12  
13 **Interrogatory:**

14  
15 Kingston Hydro's scorecard shows that Kingston Hydro has been assigned to Group 3  
16 for Efficiency Assessment, based on the PEG July 2014 report. PEG has also provided  
17 LDCs with a spreadsheet that enables them to project future cost performance.

- 18  
19 a) Did Kingston Hydro forecast any future cost performance for 2016-2020 based on  
20 the information provided in this application?  
21 b) If so, please provide the results.  
22 c) If not, please complete the forecast model, provide the results, any assumptions  
23 made and if Kingston Hydro's efficiency assessment is forecasted to worsen, then  
24 please provide an explanation on why this is the case.

25  
26 **Response:**

- 27  
28 a) Kingston Hydro provided forecasted numbers on page 15 of 29 of Exhibit 1, Tab

---

29           2, Schedule 1.

30

31   b)   Please find attached the detailed results from the forecasting model which  
32       indicates that Kingston's efficiency assessment is expected to decrease to -  
33       10.06% in 2019 and -12.34% in 2020. Kingston should be in a position to move to  
34       Group II cohort with a stretch factor of 0.15%. Kingston Hydro's actual costs are  
35       forecasted to be lower than projected for the period 2014-2020.

Response to Ontario Energy Board Staff  
Interrogatory 1-Staff-10

Attachment 1

# Benchmarking Calculations for LDC Forecasting

Selected LDC:

Kingston Hydro Corporation

Line  
Reference  
Number

Account

2013

2014

2015

2016

2017

2018

2019

2020

## Section 1: Source Data and OMA& Calculations

### OM&A Data (Detail may be hidden or expanded using the +/- buttons to the left of the row numbers)

1	5005	Operation Supervision and Engineering	757,739	326,733	251,562	259,109	263,513	267,993	272,549	277,182
2	5010	Load Dispatching	556,090	542,919	506,507	521,702	530,571	539,591	548,764	558,093
3	5012	Station Buildings and Fixtures	74,184	92,827	93,430	96,233	97,869	99,533	101,225	102,946
4	5014	Transformer Station Equipment - Operation Labor	-	-	-	-	-	-	-	-
5	5015	Transformer Station Equipment - Operation Supplies and Expenses	-	-	-	-	-	-	-	-
6	5016	Distribution Station Equipment - Operation Labor	57,108	28,625	32,024	32,985	33,545	34,116	34,696	35,286
7	5017	Distribution Station Equipment - Operation Supplies and Expenses	(16,838)	19,664	26,659	27,458	27,925	28,400	28,883	29,374
8	5020	Overhead Distribution Lines and Feeders - Operation Labor	316,993	152,718	137,267	141,385	143,789	146,233	148,719	151,247
9	5025	Overhead Distribution Lines and Feeders - Operation Supplies and Expenses	79,561	29,265	58,412	60,164	61,187	62,227	63,285	64,361
10	5035	Overhead Distribution Transformers - Operation	8,375	4,072	7,828	8,063	8,200	8,340	8,481	8,626
11	5040	Underground Distribution Lines and Feeders - Operation Labor	7,958	92,541	112,897	116,284	118,260	120,277	122,315	124,395
12	5045	Underground Distribution Lines and Feeders - Operation Supplies and Expenses	15,350	13,607	60,952	62,781	63,848	64,933	66,037	67,160
13	5055	Overhead Distribution Lines and Feeders	4,792	9,707	-	-	-	-	-	-
14	5065	Meter Expense	564,964	408,043	390,635	402,354	409,194	416,150	423,225	430,420
15	5070	Customer Premises - Operation Labor	332,018	135,373	119,442	123,026	125,117	127,244	129,407	131,607
16	5075	Customer Premises - Operation Materials and Supplies	23,184	16,288	23,637	24,346	24,760	25,181	25,609	26,044
17	5085	Miscellaneous Distribution Expense	121,363	113,494	140,487	144,702	148,608	152,621	156,742	160,974
18	5090	Underground Distribution Lines and Feeders - Rental Paid	-	-	-	-	-	-	-	-
19	5095	Overhead Distribution Lines and Feeders - Rental Paid	1,445	27,801	45,000	46,350	47,601	48,887	50,207	51,562
20	5096	Other Rent (Distribution)	-	-	-	-	-	-	-	-
21		<b>Subtotal: Operation</b>	<b>2,904,286</b>	<b>2,013,678</b>	<b>2,006,738</b>	<b>2,066,941</b>	<b>2,103,989</b>	<b>2,141,719</b>	<b>2,180,143</b>	<b>2,219,276</b>
22	5105	Maintenance Supervision and Engineering	3,860	40,434	84,219	86,746	88,221	89,720	91,246	92,797
23	5110	Maintenance of Buildings and Fixtures	41,360	60,735	65,242	67,199	68,342	69,504	70,685	71,887
24	5112	Maintenance of Transformer Station Equipment	-	-	-	-	-	-	-	-
25	5114	Maintenance of Distribution Station Equipment	148,541	272,78	255,237	262,894	267,363	271,909	276,531	281,232
26	5120	Maintenance of Poles, Towers and Fixtures	27,810	37,999	67,259	69,277	70,455	71,653	72,871	74,110
27	5125	Maintenance of Overhead Conductors and Devices	229,581	156,430	166,161	171,146	174,055	177,014	180,023	183,084
28	5130	Maintenance of Overhead Services	24,540	37,752	71,130	73,264	75,176	76,947	78,685	80,396
29	5135	Overhead Distribution Lines and Feeders - Right of Way	242,587	192,300	286,938	295,547	300,571	305,681	310,877	316,162
30	5145	Maintenance of Underground Conduit	86,720	63,339	63,910	65,828	66,942	68,085	69,247	70,420
31	5150	Maintenance of Underground Conductors and Devices	137,382	145,482	158,078	162,820	165,588	168,403	171,266	174,177
32	5155	Maintenance of Underground Services	15,146	20,154	38,877	40,043	40,724	41,416	42,120	42,836
33	5160	Maintenance of Line Transformers	1,497	4,507	37,753	38,885	39,546	40,219	40,902	41,598
34	5175	Maintenance of Meters	16,769	6,149	30,000	30,900	31,425	31,960	32,503	33,055
35		<b>Subtotal: Maintenance</b>	<b>983,793</b>	<b>1,037,660</b>	<b>1,324,806</b>	<b>1,364,649</b>	<b>1,387,746</b>	<b>1,411,338</b>	<b>1,436,331</b>	<b>1,469,732</b>
36	5305	Supervision (Billing and Collection)	-	-	-	-	-	-	-	-
37	5310	Meter Reading Expense	189,285	180,413	192,019	197,779	201,142	204,561	208,039	211,575
38	5315	Customer Billing	484,272	356,828	411,184	423,520	430,719	438,042	445,488	453,062
39	5320	Collecting	131,757	137,871	133,094	137,087	139,417	141,787	144,198	146,649
40	5325	Collecting - Cash Over and Short	-	-	-	-	-	-	-	-
41	5330	Collection Charges	-	-	-	-	-	-	-	-
42	5340	Miscellaneous Customer Account Expenses	-	-	-	-	-	-	-	-
43		<b>Subtotal: Billing and Collections</b>	<b>806,314</b>	<b>676,112</b>	<b>736,297</b>	<b>768,386</b>	<b>771,278</b>	<b>784,390</b>	<b>797,724</b>	<b>811,286</b>
44	5405	Supervision (Community Relations)	-	-	-	-	-	-	-	-
45	5410	Community Relations - Sundry	-	-	-	-	-	-	-	-
46	5420	Community Safety Program	230	-	1,659	1,709	1,738	1,768	1,798	1,828
47	5425	Miscellaneous Customer Service and Informational Expenses	111,851	68,322	90,493	93,413	95,299	96,939	98,599	100,279
48		<b>Subtotal: Community Relations</b>	<b>112,086</b>	<b>68,322</b>	<b>92,382</b>	<b>95,123</b>	<b>96,740</b>	<b>98,384</b>	<b>100,057</b>	<b>101,758</b>
49	5605	Executive Salaries and Expenses	139,925	152,294	155,423	160,086	162,808	165,575	168,390	171,253
50	5610	Management Salaries and Expenses	79,426	85,293	87,045	89,657	91,181	92,731	94,307	95,911
51	5615	General Administrative Salaries and Expenses	284,880	718,152	494,700	509,542	518,204	527,013	535,972	545,084
52	5620	Office Supplies	142,604	171,029	243,310	250,609	254,869	259,202	263,609	268,090
53	5625	Administrative Expense Transferred - Credit	-	-	-	-	-	-	-	-
54	5630	Outside Services Employed	481,854	479,241	562,357	579,228	599,075	599,089	609,273	619,631
55	5640	Injuries and Damages	34,304	36,557	53,541	55,147	56,084	57,038	58,007	58,993
56	5645	OMERS Pensions and Benefits	54,265	52,394	57,995	59,734	60,750	61,783	62,833	63,901
57	5646	Employee Pensions and OPEB	-	-	-	-	-	-	-	-
58	5647	Employee Sick Leave	-	-	-	-	-	-	-	-
59	5650	Franchise Requirements	-	-	-	-	-	-	-	-
60	5655	Regulatory Expenses	146,662	184,176	166,753	239,858	242,648	245,493	248,396	251,356
61	5665	Miscellaneous General Expenses	4,864	31,138	4,600	4,738	4,819	4,900	4,984	5,069
62	5670	Rent (Administrative and General)	232,328	232,328	303,722	312,834	318,152	323,560	329,061	334,655
63	5672	Lease Payment Expense	-	-	-	-	-	-	-	-
64	5675	Maintenance of General Plant	-	-	-	-	-	-	-	-
65	5680	Electrical Safety Authority Fees	11,678	13,111	15,000	15,450	15,713	15,980	16,251	16,528
66		<b>Subtotal: A&amp;G Expenses</b>	<b>1,612,790</b>	<b>2,156,713</b>	<b>2,144,446</b>	<b>2,276,882</b>	<b>2,314,301</b>	<b>2,362,365</b>	<b>2,391,084</b>	<b>2,430,470</b>
67	5635	Property Insurance	225,001	183,348	158,492	163,247	166,022	168,844	171,715	174,634
68	6210	Life Insurance	-	-	-	-	-	-	-	-
69		<b>Subtotal: Insurance</b>	<b>225,001</b>	<b>183,348</b>	<b>158,492</b>	<b>163,247</b>	<b>166,022</b>	<b>168,844</b>	<b>171,715</b>	<b>174,634</b>
70	5515	Advertising	-	-	-	-	-	-	-	-
71		<b>Subtotal Advertising</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
72		<b>Total of Above Accounts Used for Benchmarking</b>	<b>6,643,269</b>	<b>6,133,833</b>	<b>6,463,130</b>	<b>6,725,126</b>	<b>6,840,076</b>	<b>6,957,040</b>	<b>7,076,054</b>	<b>7,197,154</b>
73										
74										
75		<b>Adjustments to OM&amp;A for Benchmarking</b>								
76	5014		-	-	-	-	-	-	-	-
77	5015		-	-	-	-	-	-	-	-
78	5112		-	-	-	-	-	-	-	-
79		Subtotal: HV Adjustment (to subtract from cost)	-	-	-	-	-	-	-	-
80		LV Adjustment	-	-	-	-	-	-	-	-
81		Total Adjusted OM&A Expense	6,643,269	6,133,833	6,463,130	6,725,126	6,840,076	6,957,040	7,076,054	7,197,154
82										
83		<b>Gross Capital Cost Additions Data</b>								
84		Total Gross Capital Additions	5,035,388	3,549,151	3,499,700	8,177,593	2,899,771	4,290,000	4,149,000	4,402,550
85		HV Gross Capital Additions	-	-	-	-	-	-	-	-
86										
87		<b>Output and Other Business Conditions</b>								
88		Number of Customers	27,098	27,232	27,338	27,447	27,558	27,672	27,787	27,904
89		Delivery Volume	707,469,590	709,014,281	709,392,585	701,789,925	693,869,027	685,574,821	677,008,244	668,120,260
90		Annual Peak Demand	133,035	133,035	133,035	133,035	133,035	133,035	133,035	133,035
91		Distribution Circuit km	362	362	362	362	362	362	362	362
92										
93										

## Section 2: Actual Cost Calculations

### Actual Cost

94	OM&A	6,643,269	6,133,832.99	6,463,130.03	6,725,126.20	6,840,076.00	6,957,039.97	7,076,053.82	7,197,153.97
95									
96									
97									
98	Capital								
99	Rate of Return	5.96%	6.74%	6.74%	6.24%	6.28%	6.31%	6.38%	6.39%
100	Depreciation Rate	4.59%	4.59%	4.59%	4.59%	4.59%	4.59%	4.59%	4.59%
101	Construction Cost Index	160.30	165.18	170.21	175.40	180.74	186.24	191.91	197.76
102	Capital Price	16.99	18.39	18.95	18.67	19.31	19.95	20.69	21.34
103	Gross Plant Additions	5,035,388	3,549,151	3,499,700	8,177,593	2,899,771	4,290,000	4,149,000	4,402,550
104	HV Capital Additions								
105	Quantity of Capital Additions	31,412	21,486	20,561	46,624	16,044	23,035	21,619	22,262
106	Quantity of Capital Removed	19,314	19,869	19,943	19,971	21,195	20,958	21,054	21,080
107	Capital Quantity	432,872	434,490	435,108	461,760	456,610	458,686	459,251	460,434
108	Capital Cost	7,354,110	7,988,523	8,243,514	8,621,913	8,817,424	9,152,140	9,502,363	9,828,806
109									
110	Total Actual Cost	13,997,379	14,122,356	14,706,644	15,347,039	15,657,500	16,109,180	16,578,417	17,022,960
111	Total Cost Per Customer	\$ 516.55	\$ 518.59	\$ 537.96	\$ 559.15	\$ 568.17	\$ 582.16	\$ 596.62	\$ 610.05
112	Total Cost Per km of line	\$ 38,667	\$ 39,012	\$ 40,626	\$ 42,395	\$ 43,263	\$ 44,500	\$ 45,797	\$ 47,025

112	Predicted Cost									
113	Output Quantity									
114	Number of Customers	27,098	27,232	27,338	27,447	27,558	27,672	27,787	27,904	
115	Delivery Volume	707,469,590	709,014,281	709,392,585	701,789,925	693,869,027	685,574,821	677,008,244	668,120,260	
116	Annual Peak Demand	133,035	133,035	133,035	133,035	133,035	133,035	133,035	133,035	
117	Capacity Proxy	147,462	147,462	147,462	147,462	147,462	147,462	147,462	147,462	
118										
119	Input Prices									
120	GDP IPI [30% Weight]	110.9	114.3	117.8	121.3	125.0	128.8	132.8	136.8	
121	Average Hourly Earnings Growth [70% Weight]	920.12	948.14	977.02	1,006.77	1,037.43	1,069.03	1,101.58	1,135.13	
122	OM&A Price Index Growth [30% GDPPI growth + 70% AWE Growth]	1.55%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
123	OM&A Price Index Level	109.6	113.0	116.4	120.0	123.6	127.4	131.3	135.3	
124										
125	Capital Price Index	16.99	18.39	18.95	18.67	19.31	19.95	20.69	21.34	
126										
127	Business Conditions									
128	2013 Line km	362.00	362.00	362.00	362.00	362.00	362.00	362.00	362.00	
129	2002-2013 Average Line km	356.40	356.87	357.29	357.69	358.05	358.38	358.68	358.95	
130	Customers Ten Years Ago	26,358	26,477	26,265	26,525	26,632	26,940	26,832	26,944	
131	Ten Year Customer Growth Percentage	2.81%	2.85%	4.09%	3.48%	3.48%	2.72%	3.56%	3.56%	
132										
133	(Details of the predicted cost calculations may be hidden by using the +/- button to the left of row 248)									
134										
135	Company Values for Variables Used in the Prediction Equation									
136										
137	Constant	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
138	Capital Price / OM&A Price (WK)	0.1550	0.1627	0.1627	0.1556	0.1562	0.1566	0.1576	0.1578	
139	Customers (Y1)	27,098	27,232	27,338	27,447	27,558	27,672	27,787	27,904	
140	Capacity (Y2)	147,462	147,462	147,462	147,462	147,462	147,462	147,462	147,462	
141	Deliveries (Y3)	707,469,590	709,014,281	709,392,585	701,789,925	693,869,027	685,574,821	677,008,244	668,120,260	
142	Average Line Length	356.4	356.9	357.3	357.7	358.0	358.4	358.7	359.0	
143	Customers Added in last 10 years	2.81%	2.85%	4.09%	3.48%	3.48%	2.72%	3.56%	3.56%	
144	Trend	7	8	9	10	11	12	13	14	
145										
146	Company-Specific Parameter Estimates*									
147										
148	Constant	12.8141	12.8141	12.8141	12.8141	12.8141	12.8141	12.8141	12.8141	
149	Capital Price / OM&A Price (WK)	0.6290	0.6290	0.6290	0.6290	0.6290	0.6290	0.6290	0.6290	
150	Customers (Y1)	0.4429	0.4429	0.4429	0.4429	0.4429	0.4429	0.4429	0.4429	
151	Capacity (Y2)	0.1630	0.1630	0.1630	0.1630	0.1630	0.1630	0.1630	0.1630	
152	Deliveries (Y3)	0.1052	0.1052	0.1052	0.1052	0.1052	0.1052	0.1052	0.1052	
153	WKWK	0.1331	0.1331	0.1331	0.1331	0.1331	0.1331	0.1331	0.1331	
154	Y1Y1	(0.3714)	(0.3714)	(0.3714)	(0.3714)	(0.3714)	(0.3714)	(0.3714)	(0.3714)	
155	Y2Y2	0.1888	0.1888	0.1888	0.1888	0.1888	0.1888	0.1888	0.1888	
156	Y3Y3	0.1666	0.1666	0.1666	0.1666	0.1666	0.1666	0.1666	0.1666	
157	WKY1	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	
158	WKY2	0.0101	0.0101	0.0101	0.0101	0.0101	0.0101	0.0101	0.0101	
159	WKY3	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	
160	Y1Y2	0.1402	0.1402	0.1402	0.1402	0.1402	0.1402	0.1402	0.1402	
161	Y1Y3	0.0629	0.0629	0.0629	0.0629	0.0629	0.0629	0.0629	0.0629	
162	Y2Y3	(0.1965)	(0.1965)	(0.1965)	(0.1965)	(0.1965)	(0.1965)	(0.1965)	(0.1965)	
163	Average Line Length	0.2846	0.2846	0.2846	0.2846	0.2846	0.2846	0.2846	0.2846	
164	Customers Added in last 10 years	1.65%	1.65%	1.65%	1.65%	1.65%	1.65%	1.65%	1.65%	
165	Trend	0.0171	0.0171	0.0171	0.0171	0.0171	0.0171	0.0171	0.0171	
166										
167	Sample Mean Values									
168										
169	Constant	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
170	Capital Price / OM&A Price (WK)	0.164	0.1644	0.1644	0.1644	0.1644	0.1644	0.1644	0.1644	
171	Customers (Y1)	63,422,312	63,422,3118	63,422,3118	63,422,3118	63,422,3118	63,422,3118	63,422,3118	63,422,3118	
172	Capacity (Y2)	345,129	345,129,0146	345,129,0146	345,129,0146	345,129,0146	345,129,0146	345,129,0146	345,129,0146	
173	Deliveries (Y3)	1,630,327,994	1,630,327,994	1,630,327,994	1,630,327,994	1,630,327,994	1,630,327,994	1,630,327,994	1,630,327,994	
174	WKWK	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
175	Y1Y1	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
176	Y2Y2	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
177	Y3Y3	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
178	WKY1	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
179	WKY2	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
180	WKY3	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
181	Y1Y2	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
182	Y1Y3	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
183	Y2Y3	1.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
184	Average Line Length	2.723	2.723	2.723	2.723	2.723	2.723	2.723	2.723	
185	Customers Added in last 10 years	12.86%	12.86%	12.86%	12.86%	12.86%	12.86%	12.86%	12.86%	
186										
187										
188	2013 Values Logged and Mean Scaled (where applicable)									
189										
190										
191	Constant	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
192	Capital Price / OM&A Price (WK)	(0.0592)	(0.0102)	(0.0102)	(0.0547)	(0.0511)	(0.0484)	(0.0421)	(0.0412)	
193	Customers (Y1)	(0.8504)	(0.8454)	(0.8415)	(0.8376)	(0.8335)	(0.8294)	(0.8252)	(0.8210)	
194	Capacity (Y2)	(0.8503)	(0.8503)	(0.8503)	(0.8503)	(0.8503)	(0.8503)	(0.8503)	(0.8503)	
195	Deliveries (Y3)	(0.8348)	(0.8327)	(0.8321)	(0.8429)	(0.8543)	(0.8663)	(0.8789)	(0.8921)	
196	WKWK	0.0018	0.0001	0.0001	0.0015	0.0013	0.0012	0.0009	0.0008	
197	Y1Y1	0.3616	0.3574	0.3541	0.3508	0.3474	0.3439	0.3405	0.3371	
198	Y2Y2	0.3615	0.3615	0.3615	0.3615	0.3615	0.3615	0.3615	0.3615	
199	Y3Y3	0.3485	0.3467	0.3462	0.3552	0.3649	0.3752	0.3862	0.3979	
200	WKY1	0.0503	0.0086	0.0086	0.0458	0.0426	0.0401	0.0347	0.0338	
201	WKY2	0.0503	0.0086	0.0086	0.0465	0.0435	0.0411	0.0358	0.0350	
202	WKY3	0.0494	0.0085	0.0085	0.0461	0.0437	0.0419	0.0370	0.0367	
203	Y1Y2	0.7231	0.7189	0.7156	0.7122	0.7088	0.7053	0.7017	0.6982	
204	Y1Y3	0.7099	0.7040	0.7003	0.7060	0.7120	0.7185	0.7253	0.7324	
205	Y2Y3	0.7099	0.7081	0.7076	0.7168	0.7264	0.7366	0.7473	0.7586	
206	Average Line Length	(2.0334)	(2.0321)	(2.0309)	(2.0298)	(2.0288)	(2.0278)	(2.0270)	(2.0262)	
207	Customers Added in last 10 years	21.83%	22.17%	31.77%	27.03%	27.04%	21.13%	27.68%	27.71%	
208	Trend	7	8	9	10	11	12	13	14	
209										
210	Product of Parameter and 2013 Values									
211										
212	Constant	12.814	12.814	12.814	12.814	12.814	12.814	12.814	12.814	
213	Capital Price / OM&A Price (WK)	(0.0377)	(0.006)	(0.006)	(0.034)	(0.032)	(0.030)	(0.026)	(0.026)	
214	Customers (Y1)	(0.377)	(0.374)	(0.373)	(0.371)	(0.369)	(0.367)	(0.366)	(0.364)	
215	Capacity (Y2)	(0.139)	(0.139)	(0.139)	(0.139)	(0.139)	(0.139)	(0.139)	(0.139)	
216	Deliveries (Y3)	(0.088)	(0.088)	(0.088)	(0.089)	(0.090)	(0.091)	(0.092)	(0.094)	
217	WKWK	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
218	Y1Y1	(0.134)	(0.133)	(0.132)	(0.130)	(0.129)	(0.128)	(0.126)	(0.125)	
219	Y2Y2	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	
220	Y3Y3	0.058	0.058	0.058	0.059	0.061	0.063	0.064	0.066	
221	WKY1	0.003	0.000	0.000	0.002	0.002	0.002	0.002	0.002	
222	WKY2	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
223	WKY3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
224	Y1Y2	0.101	0.101	0.100	0.100	0.099	0.099	0.098	0.098	
225	Y1Y3	0.045	0.044	0.044	0.044	0.044	0.044	0.044	0.044	
226	Y2Y3	(0.140)	(0.139)	(0.139)	(0.141)	(0.143)	(0.145)	(0.147)	(0.149)	
227	Average Line Length	(0.579)	(0.578)	(0.578)	(0.578)	(0.577)	(0.577)	(0.577)	(0.577)	
228	Customers Added in last 10 years	0.36%	0.37%	0.52%	0.45%	0.45%	0.35%	0.46%	0.46%	
229	Trend	0.120	0.137	0.154	0.171	0.188	0.205	0.223	0.240	
230										
231	Log of Predicted Total Cost / OM&A Price	11.7206	11.7691	11.7905	11.7832	11.8041	11.8235	11.8470	11.8663	
232	Real Predicted Total Cost / OM&A Price	123,078	129,203	131,992	131,026	133,796	136,420	139,661	142,382	
233	OM&A Price	199.64	119.98	116.42	119.97	123.62	127.38	131.26	135.26	
234	Predicted Total Cost	13,494,373	14,597,378	15,366,650	15,718,690	16,539,871	17,377,745	18,332,454	19,258,862	
235										
236										

238	Predicted Cost	13,494,373	14,597,378	15,366,650	15,718,690	16,539,871	17,377,745	18,332,454	19,258,862
239	Actual less Predicted Cost	503,006	(475,023)	(660,006)	(371,651)	(882,371)	(1,268,565)	(1,754,037)	(2,235,901)
240	Percentage Difference (Arithmetic for Comparison)	3.73%	-3.25%	-4.30%	-2.36%	-5.33%	-7.30%	-9.57%	-11.61%
241									
242	<b>Percent Difference (Logarithmic)</b>	<b>3.66%</b>	<b>-3.31%</b>	<b>-4.39%</b>	<b>-2.39%</b>	<b>-5.48%</b>	<b>-7.58%</b>	<b>-10.06%</b>	<b>-12.34%</b>
243									
244									
245									
246	Three Year Average								
247	Current Year	3.66%	-3.31%	-4.39%	-2.39%	-5.48%	-7.58%	-10.06%	-12.34%
248	Previous Year	2.39%	3.66%	-3.31%	-4.39%	-2.39%	-5.48%	-7.58%	-10.06%
249	Two Years Ago	2.23%	2.39%	3.66%	-3.31%	-4.39%	-2.39%	-5.48%	-7.58%
250	<b>Three Year Average Performance</b>	<b>2.76%</b>	<b>0.91%</b>	<b>-1.35%</b>	<b>-3.36%</b>	<b>-4.09%</b>	<b>-5.15%</b>	<b>-7.71%</b>	<b>-9.99%</b>

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Ontario Energy Board Staff Interrogatory 1-Staff-11**

4  
5 **Ref: Exhibit 1, Tab 2, Schedule 1**

6  
7 **Interrogatory:**

8  
9 Kingston Hydro has detailed the value of its Shared Service Model. Please provide  
10 detailed information of how Kingston Hydro proposes to provide further value to its  
11 customers. In particular:

- 12
- 13 a) What specific outcomes does Kingston Hydro target for its planned OM&A  
14 and capital spending over the five year plan term (e.g. reduction in unit cost to  
15 targeted level, reduction in outage length by x%)?  
16
  - 17 b) How is progress toward the targeted outcomes to be quantified?  
18
  - 19 c) By what metric of performance will success in achieving the outcome be  
20 demonstrated?  
21
  - 22 d) How is the value to customers of the proposed spending over the plan term to  
23 be demonstrated?  
24
  - 25 e) What consequences should occur if targeted outcomes are exceeded? If  
26 targeted outcomes are not achieved?  
27
  - 28 f) Please describe how each of the targeted outcomes aligns with customer

preferences identified by Kingston Hydro, with reference to the evidence in this application.

**Response:**

a) In addition to the measures identified in the Board Scorecard, Kingston Hydro plans to manage OM&A for the years 2017-2020 to within actual inflation less a productivity factor in order to meet its allowable ROE. The outcomes for capital spending are identified in the Distribution System Plan 5.2.3 (a) (Exhibit 1 Tab 8 Schedule 1) beginning at page 24.

b) The OM&A productivity results will be measured in part by analyzing the reasons for the actual ROE on a yearly basis as well as monitoring the other scorecard metrics for total cost. In addition, Kingston Hydro will analyze annual results reported by the PEG Group in its "spreadsheet model for benchmarking Ontario Power Distributors", to quantify results.

c) In addition to the analysis reported by the PEG Group, Kingston Hydro will also continue to monitor and report on its Scorecard results for all years.

d) Kingston Hydro refers to OEB Staff Interrogatory 2-Staff 22 e) response and to Section 5.4.1.f) of the DSP in response. Given the emphasis on System Renewal as one of the primary drivers for investment, Kingston Hydro would expect to see general improvements to various reliability measures as being indicative of the value received by our customers.

e) Kingston Hydro's recent history of achieving its results it had planned. Kingston Hydro does not foresee results differing from plan in a material

57           way.

58

59    f)     Kingston Hydro would reference the DSP: Section 5.4.1f) for customer  
60           preferences, Section 5.4.5 investment Summary and 5.4.1c) Capital  
61           Expenditure by Category.

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**EXHIBIT 1 - ADMINISTRATION****Response to Ontario Energy Board Staff Interrogatory 1-Staff-12****Ref: Exhibit 1, Tab 2, Schedule 1****Interrogatory:**

Please provide details about what other outcome measures Kingston Hydro considered and why they are not being proposed.

**Response:**

As outlined at Exhibit 1 Tab 8 Schedule 1 page 1, Kingston Hydro has focused on the performance outcomes that were identified in the 'Renewed Regulatory Framework for Electricity Distributors: A Performance-Based Approach', dated October 18, 2012.

Many of these outcomes were subsequently captured in the work of the Board to develop the Scorecard, first reported in 2013.

There are additional outcomes measures beyond the Scorecard measures outlined in 5.2.3 (a) of the Distribution System Plan (Exhibit 2 Tab 2 Schedule 1 Attachment 1) beginning at page 24.

These outcome areas are aligned with the Kingston Hydro strategic plan and include Growth and Planning, Risk Management, Financial, Infrastructure Investment and Community Sustainability, Technology and Customer Engagement.

1 **EXHIBIT 1 – ADMINISTRATION**

2  
3 **ANNUAL RATE ADJUSTMENTS**

4  
5 **Response to Ontario Energy Board Staff Interrogatory 1-Staff-13**

6  
7 **Ref: Exhibit 1, Tab 3, Schedule1**

8  
9 **Interrogatory:**

10  
11 Please explain how Kingston Hydro expects to adjust for projects that will not meet  
12 the anticipated in-service date in any given year during the Custom IR plan term.

13  
14 **Response:**

15  
16 Given Kingston Hydro's ability and need to upgrade capital infrastructure and ability  
17 to achieve its capital spending budgets, Kingston Hydro did not propose any  
18 mechanism to adjust for projects that would not be in service in any given year.

19  
20 Kingston Hydro in its management of the capital budget is very aware of the  
21 significance of the proposed in service dates. In preparing its capital program for the  
22 2016-2020 periods, in service dates for the assets being replaced were considered  
23 carefully. Historically, Kingston Hydro has been successful in completing its planned  
24 work and placing its assets in service as planned. Only where unforeseen events  
25 have occurred has this not been achieved and in those cases the asset was placed  
26 into service the following year.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Ontario Energy Board Staff Interrogatory 1-Staff-14**

4  
5 **Ref: Exhibit 1, Tab 3, Schedule 1 and RRFE Report**

6  
7 **Interrogatory:**

8  
9 At page 19 of the RRFE Report, the Board indicates that distributors applying  
10 under the Custom IR option must demonstrate the ability to manage within the  
11 rates set, given that actual costs and revenue will vary from forecast [*emphasis*  
12 *added*]. Please indicate how Kingston Hydro's proposed annual adjustments for  
13 variances in cost and revenue are consistent with demonstrating this ability.  
14

15 **Response:**

16  
17 Kingston Hydro's application is requesting annual adjustments for many of the  
18 risk factors associated with revenues and expenses. For example, updating the  
19 cost of capital to the most recent amount OEB amount for deemed ROE on an  
20 annual basis should reflect annual changes in the economy. In addition, changes  
21 for tax rate changes, changes in working capital for pass thru charge increases,  
22 etc., mitigates the risk of Kingston Hydro not having the ability to manage within  
23 the rates set. Kingston Hydro remains committed to annual inflationary less  
24 productivity factors for its OM&A.

1 **EXHIBIT 1 – ADMINISTRATION**

2  
3 **BENCHMARKING**

4  
5 **Response to Ontario Energy Board Staff Interrogatory 1-Staff-15**

6  
7 **Ref: Exhibit 1, Tab 2, Schedule 1, p. 14-16**

8  
9 **Interrogatory:**

10  
11 Please provide copies of all benchmarking studies, evaluation, surveys undertaken by  
12 Kingston Hydro, either through a third-party or internally, since 2010.

13  
14 **Response:**

15  
16 2014 Customer Satisfaction survey is included in the application at Exhibit 1 Tab 4  
17 Schedule 1 Attachment 2.

18  
19 In addition since 2010 there have been a number of compensation surveys. These are  
20 attached as:

21  
22 Attachment 1 – 2010 MEARIE Salary Survey

23 Attachment 2 – 2013 MEARIE Salary Survey

24 Attachment 3 – 2013 MEARIE Board of Directors Compensation Survey

25 Attachment 4 – 2014 Hay Group Salary Survey

26 Attachment 5 – 2014 MEARIE Salary Survey

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**EXHIBIT 1 – ADMINISTRATION****Response to Ontario Energy Board Staff Interrogatory 1-Staff-16****Ref: Exhibit 1, Tab 2, Schedule 1, p. 14-16****Interrogatory:**

In the first reference, Kingston Hydro provides OM&A per customer from 2010– 2014 and total cost benchmarking projections from 2013–2020. Kingston Hydro noted that on a total cost per customer basis it ranks 16<sup>th</sup> lowest of 73 utilities in 2013.

- a) Please provide a table comparing Kingston Hydro's OM&A per customer to utilities in the same cohort as Kingston Hydro from 2010-2014.
- b) Please provide Kingston Hydro's benchmarking projections for 2015-2020 on an OM&A cost per customer basis in the same format shown in table 6.
- c) Please explain the impact of Kingston Hydro's requested capital budget on its projected total cost ranking by 2020.
- d) Does Kingston Hydro expect to improve its status in its benchmark cost performance by 2020? If not, within what time frame does Kingston Hydro expect to improve?

**Response:**

- a) Please find attached a table comparing Kingston Hydro's OM&A per customer to utilities in the same efficiency cohort group as Kingston Hydro, as placed by the Pacific Economics Group, from 2010-2014.

- 
- b) Please find attached benchmarking projections for 2015-2020 on an OM&A cost per customer basis in the same format shown in table 6a. When compared with the information provided in the response above, as illustrated Kingston Hydro's estimated OM&A cost per customer of \$272 would still be in the bottom half of the cohort group compared to the cohorts' 2014 OM&A per customer.
- c) To address the question, the benchmarking model was used to analyze the impact of reducing the capital budgets by \$1 million in each year (2016 – 2020). The impact on total cost per customer is \$4, \$8, \$11, \$15, and \$19 respectively.
- d) Kingston Hydro expects to improve its benchmarking status. With reference to the table provided above in 1-Staff-16 a), as illustrated, Kingston Hydro's 2014 OM&A per customer is 5<sup>th</sup> lowest out of 34 utilities in its efficiency cohort group. In addition, Kingston Hydro, with total 4 year increases at 6.1%, is the only utility of the 15 lowest utilities that has kept its cumulative 4 year increase below 14%. Kingston Hydro has averaged an increase in OM&A per customer at 1.5% over the past 4 years, while the cohort annual average has been 5.8%, almost 4 times as much. With respect to the information provided in response to 1.0-Staff-10, Kingston Hydro expects to improve its benchmark cost performance by 2020 by having an efficiency assessment of more than -10% in each of 2019 and 2020.

Response to Ontario Energy Board Staff  
Interrogatory 1-Staff-16

Attachment 1

<b>OM&amp;A Per Customer - Cohort Information</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
Hydro One Brampton Networks Inc.	150	148	144	163	179
Veridian Connections Inc.	183	181	238	221	223
Westario Power Inc.	195	207	206	253	231
Brantford Power Inc.	201	176	199	230	236
Kingston Hydro Corporation	223	224	235	259	236
PowerStream Inc.	172	184	244	234	243
St. Thomas Energy Inc.	203	225	305	253	244
Horizon Utilities Corporation	165	175	217	231	251
Hydro Ottawa Limited	184	191	235	239	253
Whitby Hydro Electric Corporation	223	214	219	266	255
Niagara-on-the-Lake Hydro Inc.	225	238	258	261	258
Waterloo North Hydro Inc.	191	182	220	244	259
Burlington Hydro Inc.	218	225	252	260	264
Ottawa River Power Corporation	222	253	251	289	267
Guelph Hydro Electric Systems Inc.	195	251	267	298	272
Thunder Bay Hydro Electricity Distribution Inc.	249	238	263	264	273
North Bay Hydro Distribution Limited	205	224	227	236	273
Cambridge and North Dumfries Hydro Inc.	188	209	266	275	274
Orangeville Hydro Limited	235	263	272	287	276
COLLUS Power Corporation	257	259	308	273	278
Hydro 2000 Inc.	248	264	350	322	290
Centre Wellington Hydro Ltd.	268	299	335	308	308
Erie Thames Powerlines Corporation	309	315	268	312	309
Niagara Peninsula Energy Inc.	262	275	290	276	329
Innisfil Hydro Distribution Systems Limited	266	281	323	328	334
Bluewater Power Distribution Corporation	287	309	322	349	336
Rideau St. Lawrence Distribution Inc.	283	275	316	324	339
Orillia Power Distribution Corporation	325	345	370	349	348
Kenora Hydro Electric Corporation Ltd.	308	359	373	344	354
Norfolk Power Distribution Inc.	260	251	333	310	369
Lakeland Power Distribution Ltd.	311	293	328	354	390
Brant County Power Inc.	361	490	541	426	410
Fort Frances Power Corporation	351	345	429	402	428
Sioux Lookout Hydro Inc.	426	425	532	514	572

# Response to Ontario Energy Board Staff Interrogatory 1-Staff-16

## Attachment 2

**Projected OM&A per Customer**

	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Kingston Hydro Corporation</b>	250	258	262	265	269	272

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**EXHIBIT 1 - ADMINISTRATION****Response to Ontario Energy Board Interrogatory 1-Staff-17****Ref: Exhibit 1, Tab 8, Schedule 1****Interrogatory:**

On p.2, Kingston Hydro states that it is “the 16<sup>th</sup> lowest cost utility on a total cost per customer basis in Ontario and a cost per km of line of \$38,667”.

- a) Please provide a forecasted cost per km of line by December 31, 2020 after completing its proposed infrastructure renewal program and describe the related reliability improvements as well as the value to customers.

**Response:**

- a) Kingston Hydro’s forecasted cost per kilometre of line is expected to be \$47,025.

Kingston Hydro would refer to evidence filed in the DSP, Section 5.4.5 – Overall Plan which provides a summary of the investments and benefits derived. In particular Kingston Hydro would note the following investments identified: Substation 1, Princess Street, Oil Switch replacement, 44kv and 5kv cable replacement, 44kv motorized switches, which represent investments in assets intended to improve reliability. Kingston Hydro would also refer to OEB STAFF Interrogatory, 2.0-STAFF -22 e) for additional information relating to Deteriorated Overhead Infrastructure Renewal Program.

---

These investments programed out through the 2016-2020 period address a number of customer preferences identified during the Customer Engagement process:

1. Capital improvements that improve reliability
2. Pacing the investment for rate stability

The value to our customers is in improved reliability of electricity being delivered to their home or business. The impact of frequent and/or long duration outages is well documented. The negative impact of the loss of refrigeration (perishable food spoil), phone system interruptions, loss of hot water, loss of electronic business systems etc., can create significant disruption to our customers. Kingston Hydro's emphasis on system renewal activities is intended to ensure continuous improvements to the reliability of our distribution system, which the above noted investments are intended to achieve.

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**EXHIBIT 1 - ADMINISTRATION****Response to The Consumers Council of Canada Interrogatory 1-CCC-1****Interrogatory:**

On March 12, 2015, the Board released its Decision regarding the Hydro One Inc. rate application for a five year custom plan (EB#2014#0247). In that Decision the Board set out a number of reasons why Hydro One's application is insufficient as a Custom IR application under the RRFE. In light of the conclusions reached by the Board in that case, please explain how OPUCN's application is compliant with the RRFE.

**Response:**

In preparing this application, Kingston Hydro reviewed the Renewed Regulatory Framework for Electricity Distributors (RRFE), as well as decisions of the Board with respect to other Customer IR applications including EB-2014-0002 (Horizon) and EB-2014-0247(Hydro One).

We believe that Kingston Hydro's application is compliant with the RRFE for the reasons set out at Exhibit 1 Tab 2 Schedule 1 page 2 of the application.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-2**

4  
5 **Interrogatory:**

6  
7 Please provide a copy of all materials provided to the Board of Directors in approving  
8 this application. Please also provide a copy of the Applicant's most recent Business  
9 Plan.

10  
11 **Response:**

12  
13 Attachment 1 - Report KH25-14 Customer Engagement Survey and Initiatives

14  
15 Attachment 2 - Report KH-20-15 2016 Custom IR Regulation Rate Application

16  
17 Attachment 3 - Powerpoint presentation – presentation to Intervenors April 23<sup>rd</sup>

18  
19 Attachment 4 - Report KH-21-15 Distribution System Plan

20  
21 Attachment 5 - Powerpoint Presentation – Distribution System Plan

# Response to The Consumers Council of Canada Interrogatory 1-CCC-2

## Attachment 1

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**Memo:** KH25-14  
**Date:** September 22, 2014  
**Meeting No.** 2014-03

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To: The Board of Directors  
From: J. A. Keech, President & C.E.O., Kingston Hydro Corporation  
Prepared By: Nancy Taylor, Vice-President, 1425445 Ontario Limited  
Subject: Customer Engagement Survey and Initiatives

## Background

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Engaging with our customers is something that Utilities Kingston has been successfully doing for over 100 years. Both the Utilities Kingston and Kingston Hydro Strategic Plans identify customer engagement as Key Theme areas.

As part of the 2016 electricity rate application submission for Kingston Hydro, Utilities Kingston will be responsible for demonstrating "Customer Engagement" as outlined in the Ontario Energy Board Filing Requirements Section 2.4.2.

### 2.4.2 Customer Engagement

*Contemplates enhanced engagement between Distributors and their customers to provide better alignment between distributor operational plans and **customer needs and expectations***

*The Board expects distributors to provide an overview of customer engagement activities that the distributor has undertaken with respect to its plans and how customer needs have been reflected*

The biggest change is the new need to demonstrate and provide evidence about how we have engaged with our customers in order to understand their needs and expectations. Also new, is the need to demonstrate an alignment between what our customers are telling us and the proposed expenditures in the rate application.

The 2014 plan will be primarily focused on activities that assist us in capturing the information that demonstrate our activities in customer engagement so that we can "tell our story" in the rate application due in April 2015.

In preparation for the rate application, Utility Pulse was engaged earlier this year to perform a Customer Satisfaction Survey on behalf of Utilities Kingston. This company was selected as they have been working with many utility companies for the past 15 years. This year

approximately 30 other utilities participated. This permits Utilities Kingston to be benchmarked against these other Ontario companies, as well as, nationally.

The survey was carried out by telephone from April 7 – 22, 2014. The company was provided with contact information for customers who had an electric service. These customers likely had other services as well but the focus was on electricity. While the results are electricity focused, they can be readily extrapolated to the other services that we provide.

An excellent 39% response rate resulted in a total of 405 customers agreeing to complete the survey. Of these, 15% were commercial customers with the remaining 85% being residential customers.

Utilities Kingston received an overall score of A, with the only area below an A, in the area of Customer Care – Price and Value. This appears to be due to a prevailing public opinion based on a variety of recent media reports that there is waste in the electricity industry and that rates are too high as a result. Despite this, Utilities Kingston ranked better than the Ontario benchmark for all the areas that were measured.

For the Board's information, excerpts from the survey have been attached as Appendix A.

The results of the survey are being communicated to all staff along with the message that it is their interactions with customers that determine the customer experience. We will be closing the loop with customers with messaging about the results, what we have learned and what improvements we will be targeting.

In addition, to the customer survey a group of staff have been developing a comprehensive Customer engagement plan to support the rate application.

## **Appendices**

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Appendix A - Excerpts from the Customer Satisfaction Survey

# Credibility and Trust:

## Demonstrating Credibility and Trust

### Knowledge

The utility is seen as being knowledgeable about the services it provides, about what is happening in the industry, and how customers can reduce costs or create more value.

### Integrity

The utility is seen as an organization that will act in the best interests of its customers and can be counted on to provide services and resolve problems in a professional manner.

### Involvement

The utility is actively involved in the industry, in the community and in things that affect the customer.

### Trust

The utility is an organization that can be trusted and is worthy of respect.

**Overall Utilities Kingston 83%**  
**[Ontario 77%; National 80%]**

Base: total respondents



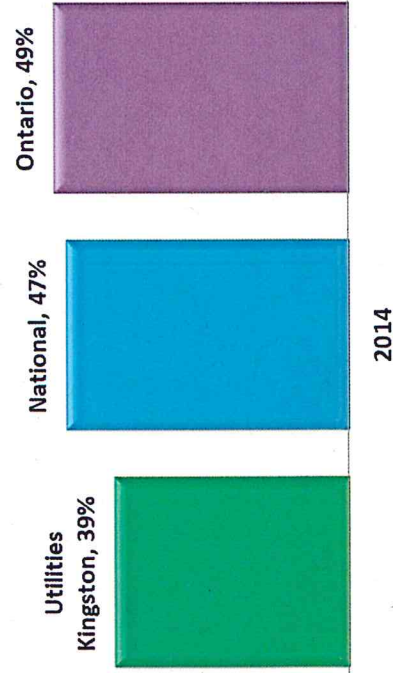
# Outage Problems (last 12 months)

Percentage of Respondents indicating that they had a Blackout or Outage problem in the last 12 months

	Utilities Kingston	National	Ontario
2014	39%	47%	49%
2013	-	41%	35%
2012	-	44%	46%
2011	-	43%	43%
2010	-	45%	41%

Base: total respondents/ (-) not a participant of the survey year

## Blackout or Outage Problems in the last 12 months



“Quickly handles outages and restores power”

88%

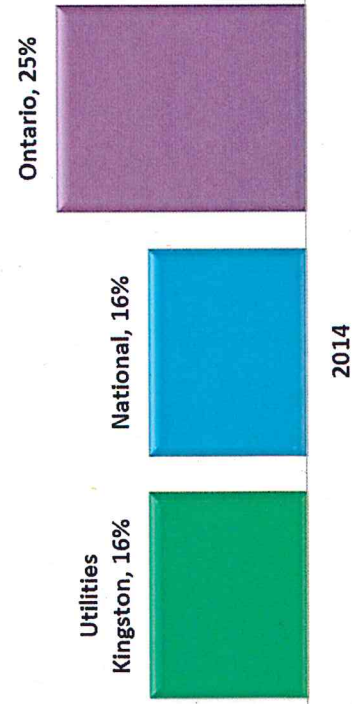
# Billing Problems (last 12 months)

Percentage of Respondents indicating that they had a Billing problem in the last 12 months

	Utilities Kingston	National	Ontario
2014	16%	16%	25%
2013	-	8%	10%
2012	-	12%	13%
2011	-	10%	16%
2010	-	10%	12%

Base: total respondents/ (-) not a participant of the survey year

## Billing Problems in the last 12 months



“...the utility has accurate billing...”

83%

# Types of billing problems:

## Utilities Kingston

The amount owed was too high	71%
Complaint about rates or charges	20%
The payment made was recorded incorrectly	5%
The bill was difficult to understand	5%
The bill arrived late	3%
Pricing systems (tiers or flat)	2%

Base: total respondents with billing problems

“[2010] % of  
billing problems  
from all Ontario  
respondents as  
described as  
“high bills” ...”

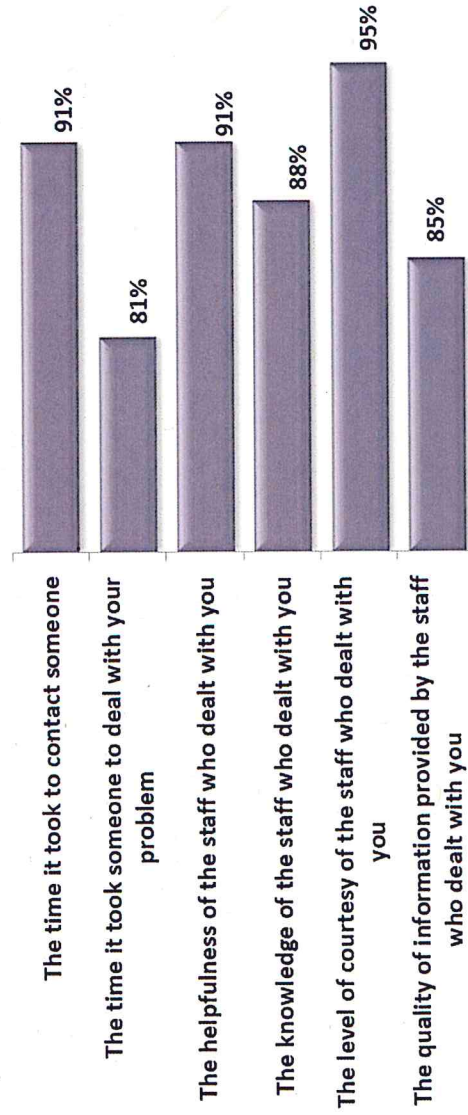
41%

# Customer Service:

Customer Service Expectations	Utilities Kingston	National	Ontario
The time it took to contact someone	91%	73%	67%
The time it took someone to deal with your problem	81%	70%	57%
The helpfulness of the staff who dealt with you	91%	74%	65%
The knowledge of the staff who dealt with you	88%	69%	61%
The level of courtesy of the staff who dealt with you	95%	82%	75%
The quality of information provided by the staff who dealt with you	85%	69%	59%

Base: total respondents

## Customer Service



“Deals professionally with customers’ problems...”

87%

# Problem Solved:

Percentage of Respondents who had problems and attempted to contact their utility				
	Utilities Kingston	National	Ontario	
Outage problems	20%	38%	32%	
Billing problems	31%	48%	43%	

Base: total respondents with billing or outage problems



# Corporate Image:

Attributes strongly linked to a hydro utility's image

	Utilities Kingston	National	Ontario
Is a respected company in the community	87%	81%	78%
A leader in promoting energy conservation	80%	78%	77%
Keeps its promises to customers and the community	84%	79%	76%
Is a socially responsible company	85%	78%	77%
Is a trusted and trustworthy company	86%	82%	77%
Adapts well to changes in customer expectations	76%	71%	68%
Is 'easy to do business with'	86%	79%	75%
Provides good value for your money	73%	67%	63%
Overall the utility provides excellent quality services	85%	83%	80%
Operates a cost effective hydro-electric system	75%	69%	62%

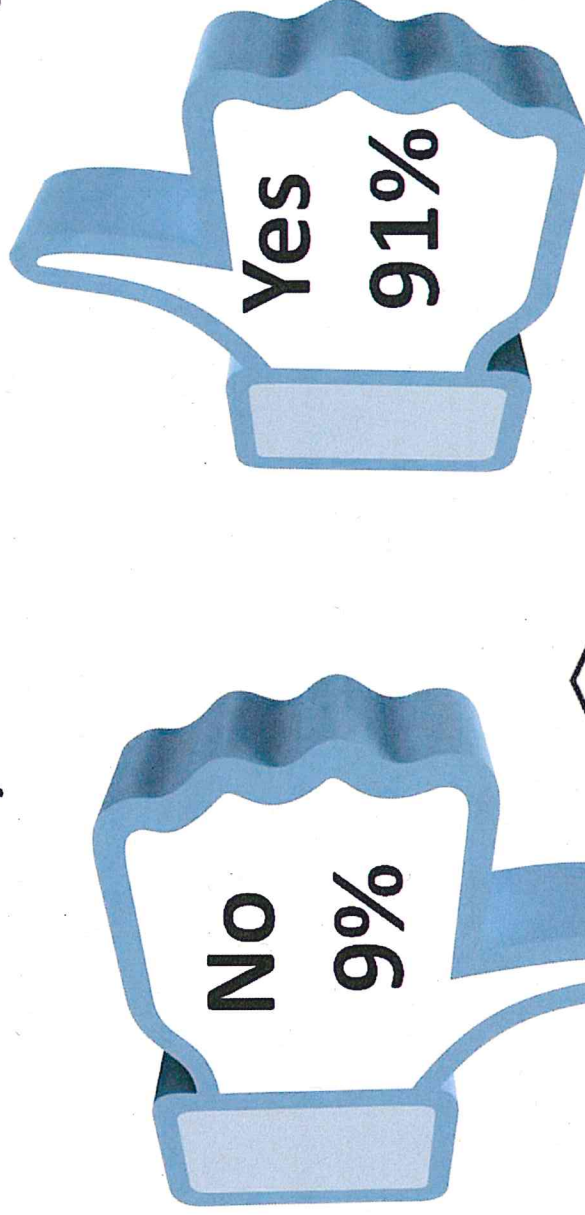
Base: total respondents with an opinion

“... would  
Recommend  
the local  
utility...”

76%

# Multiple Utilities:

*“... were you aware Utilities Kingston delivered multiple utilities under one roof?...”*



# Multi-Utility Model:



Kingston customers were asked to what degree they agree with the following statements as they relate to a multi-utility model like Utilities Kingston versus a stand-alone electric utility.



# Report Card: A

Utilities Kingston's UtilityPULSE Report Card®			
Category		Utilities Kingston	Ontario
1	Customer Care	B+	B
	Price and Value	B	C+
	Customer Service	A	B
2	Company Image	A	B+
	Company Leadership	A	B+
	Corporate Stewardship	A	B+
3	Management Operations	A	A
	Operational Effectiveness	A	B+
	Power Quality and Reliability	A+	A
OVERALL		A	B+

**“B+... Customer Care”**

**“A ... Company Image”**

**“A ... Management Operations”**

# Hydro Results Snapshot:

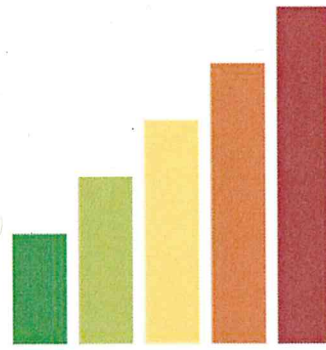
Ontario  
Benchmark

Utilities Kingston

77%	83%	Credibility and Trust rating
83%	91%	Customer Satisfaction
25%	16%	Billing problems
61%	81%	Problems Solved
79%	85%	CEPr: Customer Experience Performance rating
86%	93%	Provides reliable electricity
83%	88%	Quickly restores power
87%	88%	Electricity safety is a top priority
62%	75%	Operates a cost effective electricity system
80%	85%	Overall the utility provides excellent quality services
77%	80%	Leader in promoting energy conservation
63%	73%	Provides good value
76%	81%	CCEI: Customer Centric Engagement Index
17%	25%	Loyalty: Secure customers
B+	A	Report Card

**UtilityPULSE**

16<sup>th</sup> Annual Electric Utility  
Customer Satisfaction Survey



# Response to The Consumers Council of Canada Interrogatory 1-CCC-2

## Attachment 2

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**Motion**                      **KH20-15**  
**Date:**                        **April 29, 2015**  
**Meeting No.**                **2015-03**



**Moved:**

**Seconded:**

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To:                                The Board of Directors  
From:                            J. A. Keech, President and CEO, Kingston Hydro Corporation  
Subject:                        2016 Custom Incentive Regulation Rate Application

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**Recommendation**

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***THAT the Kingston Hydro Corporation Board approve submission of the 2016 Custom Incentive Regulation Rate Application.***

**Background**

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A presentation of the highlights of the rate application will be delivered to the Board at the meeting.

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**Carried:** \_\_\_\_\_

**Defeated:** \_\_\_\_\_

**Chair:** \_\_\_\_\_

# Response to The Consumers Council of Canada Interrogatory 1-CCC-2

## Attachment 3

# **Custom IR Application for Rates effective January 1, 2016**

**EB-2015-0083**

**Pre-Consultation April 23, 2015**

**Consumers Council of Canada**

**Energy Probe Research Foundation**

**School Energy Coalition**

**Vulnerable Energy Consumers Coalition**



# Agenda



- Brief History and Overview
- Utilities Kingston
- Distribution System Plan
  - Capital projects
  - Customer engagement
- Rate Impacts

# When we last met May 1, 2011 rates



Decision

2011 Capital	2011 Depreciation
\$5,400,000	\$2,012,000

# Since then

## May 1, 2012 ICM



**4 Incremental Capital Projects**

**\$3,200,000**

# What we have done



## Capital Expenditures

Year	Capital
2011	\$5.8 million
2012	\$3.9 million (excl. ICM)
	\$7.1 million total
2013	\$3.8 million
2014	\$3.4 million
2015	\$3.6 million

# Revenue Requirement



Year	Decision
2011	11,300,000
2012	11,550,000 (incl. ICM)
2015	\$12,643,000 (incl. smart meter rate rider and CGAAP depreciation) \$11,443,000 (with IFRS depreciation)
2016	\$12,205,000 rate revenue requirement



**Electric**



**Gas**



**Water**



**Wastewater**



**Fibre**



© WDPaulWASH



# The Multi-utility model



- Best Return/Lowest Cost to Municipality
- Lowest Possible Rates to Customers
- Best Customer Service Delivery
- Shared Services where possible
- Maximize Coordination for:
  - Development
  - Infrastructure Renewal
- Rate Based – Full Cost Accounting
- No Cross-Subsidization

# Financial Benefits



Third party review identified  
\$1,650,000 annual savings to Kingston  
Hydro customers

\$60.00 per customer per year



# Non-Financial Benefits



- Customer Service
  - One call to move
  - One visit for a locate
  - One bill to manage
- One-Stop Shop for Economic Development Inquiries
- Less disruption from construction projects
- Emergency Response



# Distribution System Plan Kingston Hydro

- Regional planning approach
- Asset management principles used to identify level of investment needed to sustain infrastructure
- Capital expenditure plan developed
- Conservation and demand management
- Consider ability to connect renewable energy
- Identifies the specific capital projects proposed over the next 5 years
- Customer input reflected in plan

# 2014 Customer Satisfaction Survey – Priority Investments



Top 2 boxes “Very” and “Somewhat likely”	Ontario LDCs	Utilities Kingston
Maintaining and upgrading equipment	83%	84%
Reducing the time needed to restore power	79%	79%
Investing more in the electricity grid to reduce the number of outages	75%	74%
Educating customers about energy conservation	75%	74%

# Allocation of Capital



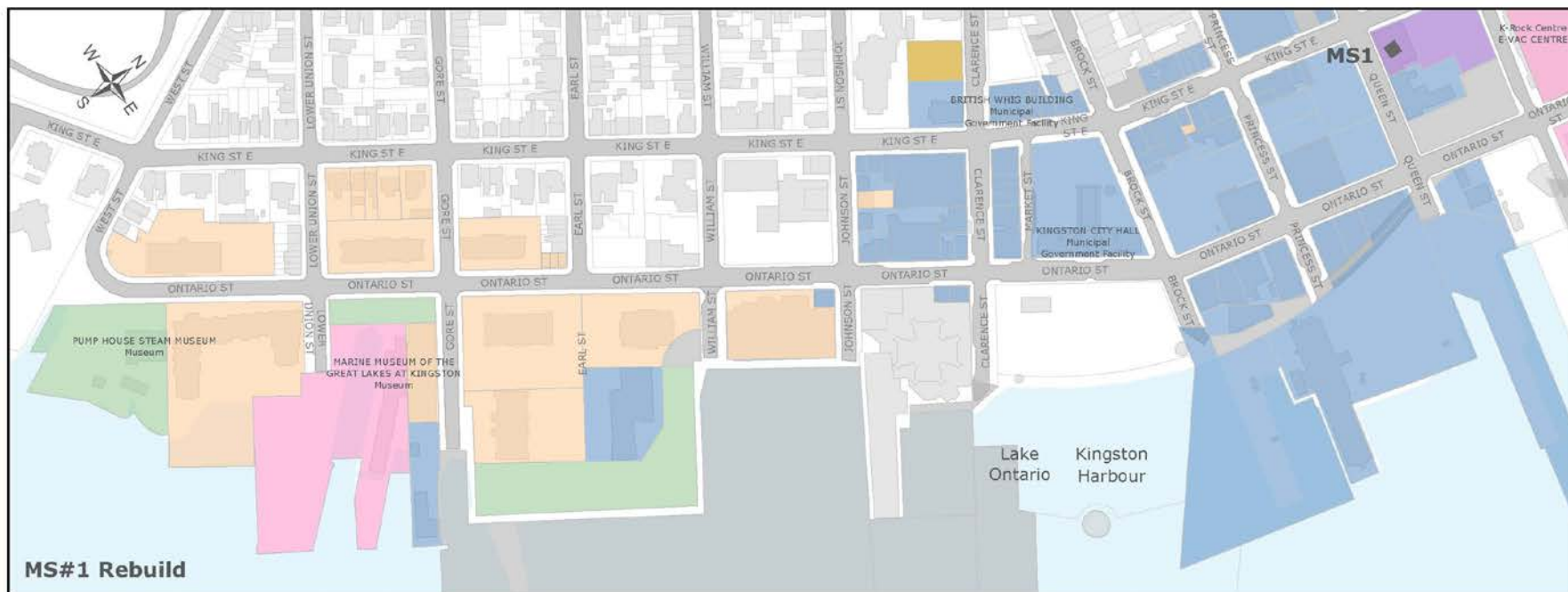
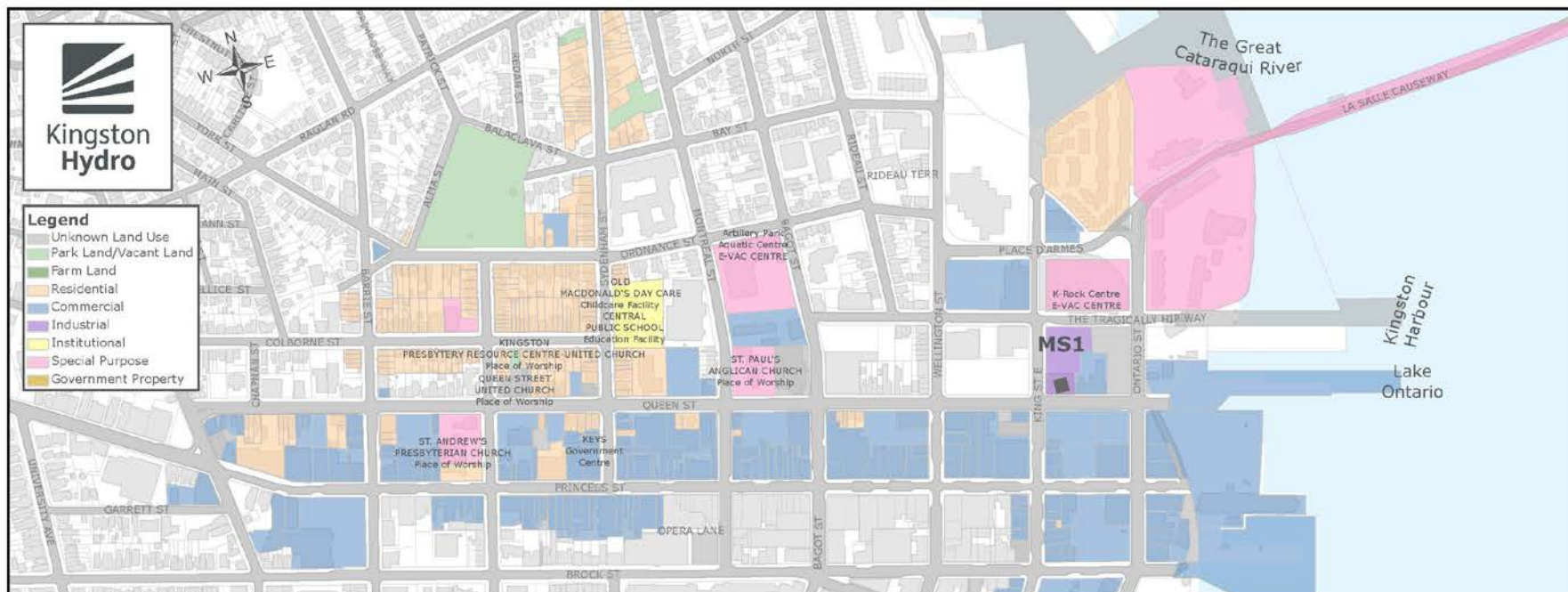
	2016	2017	2018	2019	2020	Average
Investment Category						
System Access	19%	16%	13%	12%	13%	15%
System Renewal	60%	68%	67%	71%	69%	68%
System Service	6%	5%	10%	7%	10%	8%
General Plant	15%	11%	10%	10%	8%	10%

## Capital Plan Projects

### Municipal Substation No.1 Rebuild \$3.1 Million



*Critical to serving electricity to the downtown core, it was first built in 1892*



## Capital Plan Projects

In this application, we are proposing to invest \$3.1 Million towards the Substation No. 1 rebuild project

The total rebuild project will require spending of approximately \$12 Million spread (to manage rate impacts) over a number of years



## Capital Plan Projects

### Deteriorated Pole Replacement Investment \$7,347,000

Targeting to replace more than  
700 poles (representing about  
10% of total poles)  
that have been  
identified in  
poor condition



## Capital Plan Projects

### Underground Transformer Vaults \$1,865,000

Located below sidewalks  
(mainly downtown)

Deteriorating concrete structures

Obsolete oil-type switches that cannot be safely operated when energized leading to outages that would not be needed with modern equipment

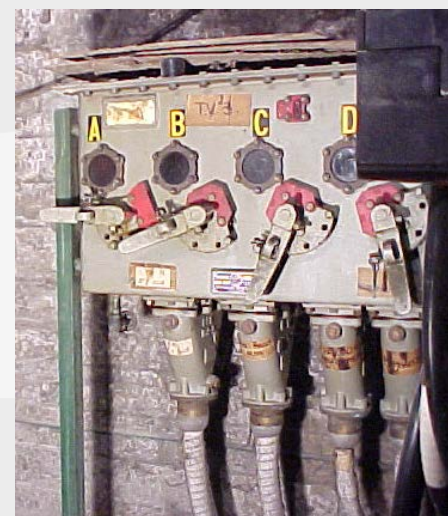
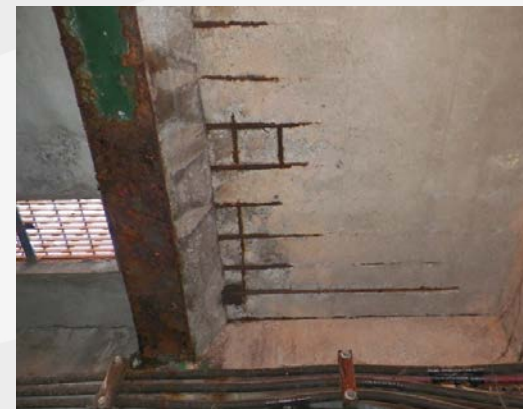




photo by Elliott Ferguson  
Kingston Whig-Standard

# 2014 Customer Satisfaction Survey

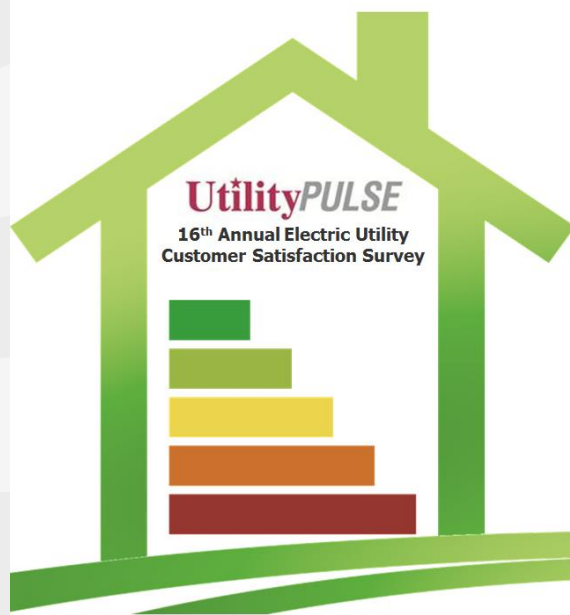


## Hydro Results Snapshot:

### Ontario Benchmark

### Utilities Kingston

77%	83%	Credibility and Trust rating
83%	91%	Customer Satisfaction
25%	16%	Billing problems
61%	81%	Problems Solved
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86%	93%	Provides reliable electricity
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63%	73%	Provides good value
76%	81%	CCEI: Customer Centric Engagement Index
17%	25%	Loyalty: Secure customers
B+	A	Report Card



# Customer consultation



*Queen's University*



*Kingston General Hospital*



*CFB Kingston*



# Customer consultation



Meetings with:

Chamber of Commerce

Hotels

Multi-residential

School Boards

Municipality



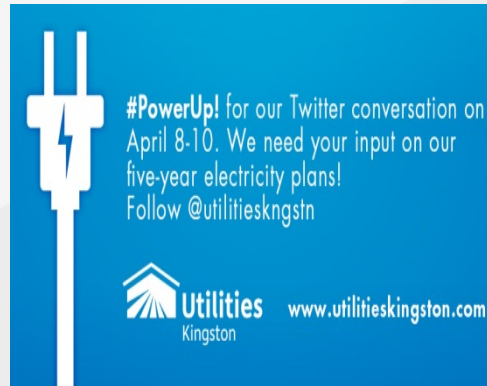
# Customer consultation



Meetings with:  
Community Health Centre  
Seniors Association



# Leveraging social media



- **22,498:** the number of times users saw the tweets on Twitter.
- **433:** the number of times a user interacted with a tweet. This included 77 clicks on URLs, 219 clicks on embedded media and 73 detail expands.

# Our customers input



A high level summary of the feedback identified support for:

- Capital improvements that improve reliability
- Pacing the investment for rate stability
- The commitment to keep operating costs as low as possible
- Maintain levels of customer service, including the one bill for all utilities
- Enhanced in-person support and assistance with conservation initiatives
- Annual meetings to discuss utility issues

# Our Application



## Capital additions:

Total over application period \$21,200,000

	2016	2017	2018	2019	2020
<b>Capital plan</b>	\$5,400,000	\$2,900,000	\$4,300,000	\$4,200,000	\$4,400,000
<b>Depreciation</b>	\$1,900,000	\$2,000,000	\$2,100,000	\$2,200,000	\$2,300,000
<b>Multiple of depreciation</b>	2.8	1.5	2.2	1.9	1.9

# Our Application



## Operating, Maintenance and Administration (OM&A) expenses:

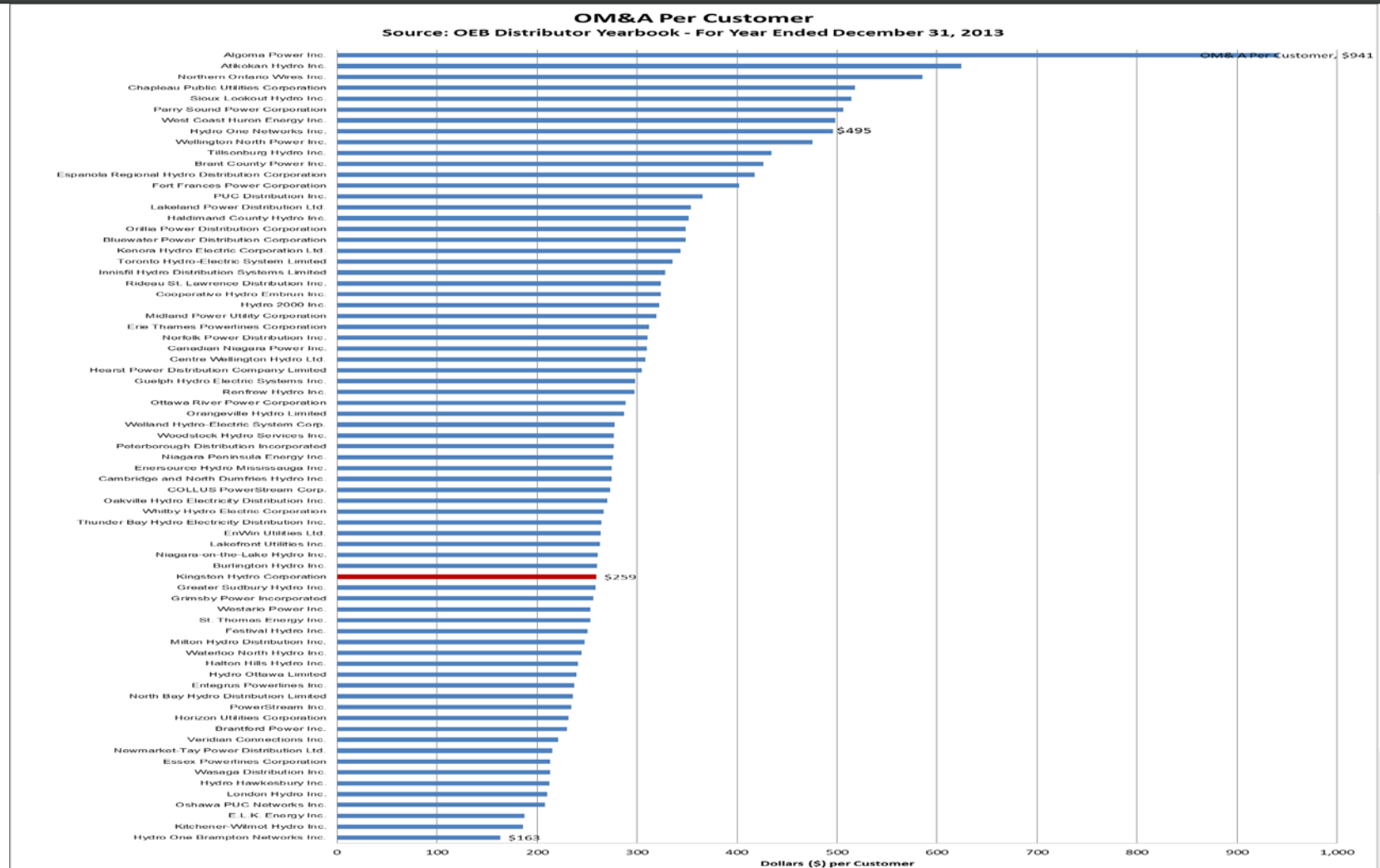
	2011 Board Approved	2016	2017	2018	2019	2020
	\$6,327,000	\$7,068,000	\$7,260,000	\$7,455,000	\$7,656,000	\$7,863,000
% change/yr		2.3%	2.7%	2.7%	2.7%	2.7%
OM&A/ customer	\$233	\$256	\$262	\$268	\$274	\$280

2017-2020 Based on 3% inflation – 0.3% productivity.

# Benchmarking



## How We Compare To Other Ontario Electric Utilities



# Benchmarking

## Ontario Energy Board 2013 Yearbook



### OM&A per customer

2013	\$258	25 <sup>th</sup> lowest
2020	\$280	39 <sup>th</sup> lowest*

### Total cost per customer

2013	\$517	16 <sup>th</sup> lowest
2020	\$615	39 <sup>th</sup> lowest*

\*2020 projection is assuming all other LDC's are stationary based on 2013 outcomes and 2013 scorecard methodology

# Deferral and Variance accounts



- Group 1 and Group 2 accounts disposed of over 1 year except:
- Residual Smart Meters and IFRS CGAAP changes as these amounts result from changes to capital assets and will request to be disposed of over the Custom IR period.

# Rate Impacts



## Residential

800 kWh	2015	2016	2017	2018	2019	2020
Distribution only	\$27.51*	\$26.97	\$28.25	\$29.63	\$30.99	\$32.25
		(\$0.54)	\$1.28	\$1.38	\$1.36	\$1.26
		-2.0%**	4.7%	4.9%	4.6%	4.1%
Total Bill	\$113.30	\$125.96	\$125.45	\$126.83	\$128.19	\$129.45
		(\$0.67)	(\$0.51)	\$1.38	\$1.36	\$1.26
		11.2%	-0.4%	1.1%	1.1%	1.0%

\* Effective May 1

\*\*Smart meter charge of \$2.63 dropping off January 2016

# Rate Impacts



## General Service < 50 kW

2,000 kWh	2015	2016	2017	2018	2019	2020
Distribution only	\$50.70*	\$48.94	\$50.83	\$52.81	\$54.68	\$56.03
		(\$1.76)	\$1.89	\$1.98	\$1.87	\$1.35
		-3.5%**	3.9%	3.9%	3.5%	2.5%
Total Bill	\$263.44	\$303.07	\$301.68	\$303.66	\$305.53	\$306.88
		(\$1.50)	\$1.39	\$1.98	\$1.87	\$1.35
		15.0%	-0.5%	0.7%	0.6%	0.4%

\* Effective May 1

\*\*Smart meter charge of \$3.65 dropping off January 2016

# Rate Impacts



## General Service > 50 kW

60 kW 40,000 kWh	2015	2016	2017	2018	2019	2020
Distribution only	\$400.47*	\$401.89	\$417.78	\$433.67	\$449.61	\$464.31
		\$1.43	\$15.89	\$15.89	\$15.94	\$14.71
		0%	4.0%	3.8%	3.7%	3.3%
Total Bill	\$5,140.45	\$5,256.92	\$5,240.99	\$5,256.88	\$5,272.82	\$5,287.53
		\$116.46	(\$15.92)	\$15.89	\$15.94	\$14.70
		2.3%	-0.3%	0.3%	0.3%	0.3%

\* Effective May 1

# Rate Impacts



## Large Use

8,000 kW 5,000,000 kWh	2015	2016	2017	2018	2019	2020
Distribution only	\$13,592.00	\$14,462.19	\$15,011.10	\$15,606.24	\$16,233.92	\$16,806.41
		\$870.19	\$548.91	\$595.14	\$627.68	\$572.49
		6.4%	3.8%	4.0%	4.0%	3.5%
Total Bill	\$608,313.65	\$617,139.56	\$621,436.31	\$622,031.45	\$622,659.13	\$623,231.64
		\$8,825.91	\$4,296.75	\$595.14	\$627.68	\$572.49
		1.5%	0.7%	0.1%	0.1%	0.1%

# Summary



- **Kingston Hydro is and will remain a low cost - low rate utility**
- **We have listened to our customers**
- **We use sound planning practices to ensure the investments maintain or improve reliability**
- **We continue to promote distributed generation and conservation initiatives**

Thank you for your time

# Response to The Consumers Council of Canada Interrogatory 1-CCC-2

## Attachment 4

---

---

**Motion**                      **KH21-15**  
**Date:**                        **April 29, 2015**  
**Meeting No.**                **2015-03**



**Moved:**

**Seconded:**

---

---

To:                                The Board of Directors  
From:                            J. A. Keech, President and CEO, Kingston Hydro Corporation  
Subject:                         Distribution System Plan

---

**Recommendation**

---

***THAT the Kingston Hydro Corporation Board approve the Kingston Hydro Distribution System Plan (DSP).***

**Background**

---

A presentation of the highlights of the Distribution System Plan will be delivered to the Board at the meeting.

---

**Carried:** \_\_\_\_\_

**Defeated:** \_\_\_\_\_

**Chair:** \_\_\_\_\_

# Response to The Consumers Council of Canada Interrogatory 1-CCC-2

## Attachment 5



Kingston  
**Hydro**

# **DISTRIBUTION SYSTEM PLAN**

**Custom IR Application for  
Rates effective January 1,  
2016**

## Distribution System Plans (DSP)

- The DSP consolidates our Asset Management Process and our Capital Expenditure Plan.
- Asset Management Process: systematic approach; physical assets; future operating conditions; business & customer service goals & objectives; prioritize & optimize expenditures.
- Capital Expenditure Plan: identifies and justifies in accordance with the OEB's standards our proposed capital expenditures on all assets over a five (5) year period.

# The Regulation

Ontario Energy  
Board

Commission de l'énergie  
de l'Ontario



## **Ontario Energy Board**

**Filing Requirements  
for  
Electricity Transmission  
and Distribution Applications**

### **Chapter 5**

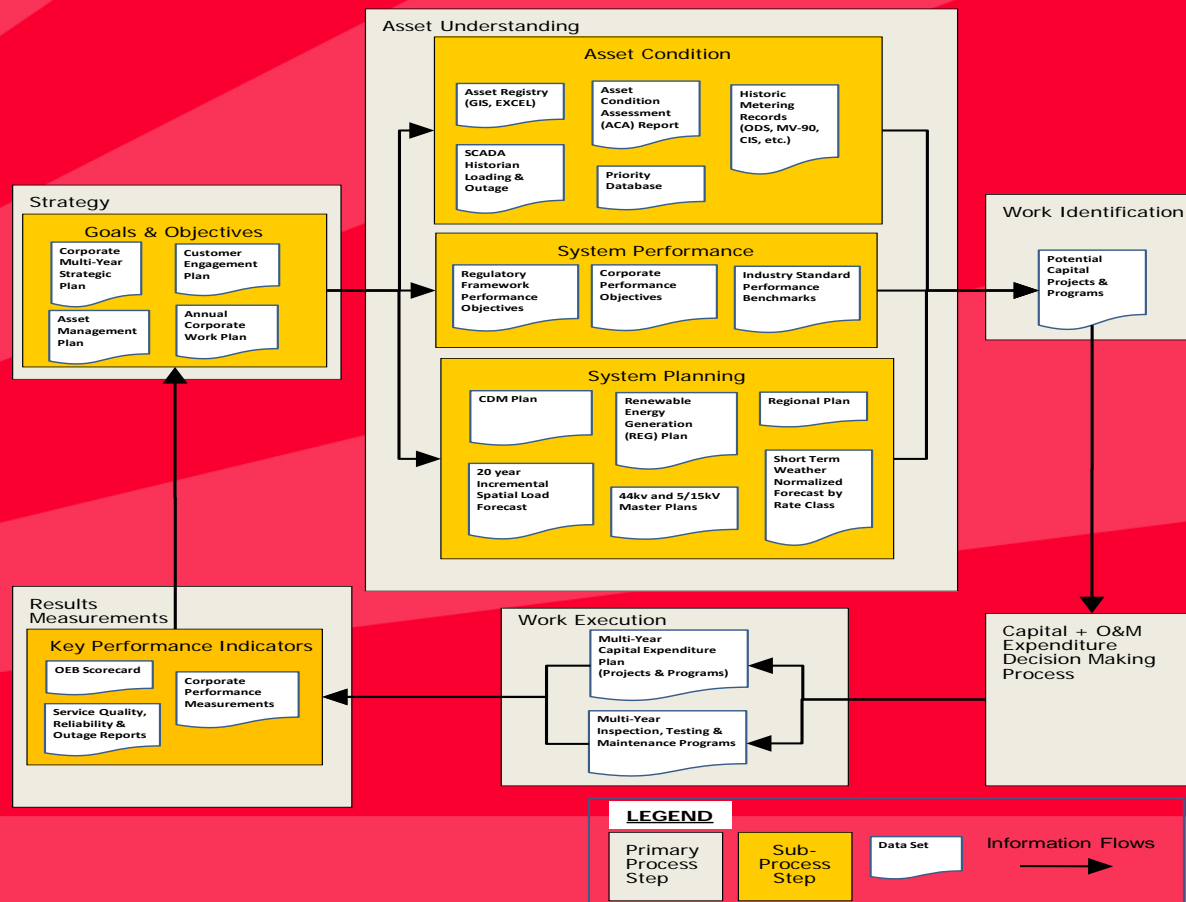
**Consolidated  
Distribution System Plan  
Filing Requirements**

March 28, 2013

# Components of the DSP

- 5.2 Distribution System Plans
- 5.3 Asset Management Process
- 5.4 Capital Expenditure Plan

# The DSP Process



# Kingston Hydro – Strategic Goals and Objectives

- To distribute safe and reliable electricity while keeping rates affordable and providing value to our shareholder.
- To be recognized as a company that provides a valued service to its customers and creates value for its shareholder, the City of Kingston, through innovation, service excellence, and a commitment to the principles of sustainability

# Asset Management Goals

## Assets:

- Ensure the continuous improvement of Kingston Hydro's asset management system from asset condition data to critical processes of system planning and decision making.
- Continuous improvement of services delivered, productivity and ultimately in cost performance.
- Achieve over the long term, the optimum investment level needed to sustain the assets (distribution and general plant) over their life cycle in an effective and efficient manner.
- Seek new and innovative solutions to operate, manage and renew Kingston Hydro's assets

# Asset Management Goals

## Customer:

- Deliver safe and reliable electricity to our customers
- Continue to satisfy customer expectations by delivering value for the rates charged
- Continue to engage in dialogue with our customers to ensure meaningful and appropriate distribution system improvements and operational effectiveness

# Asset Management Goals

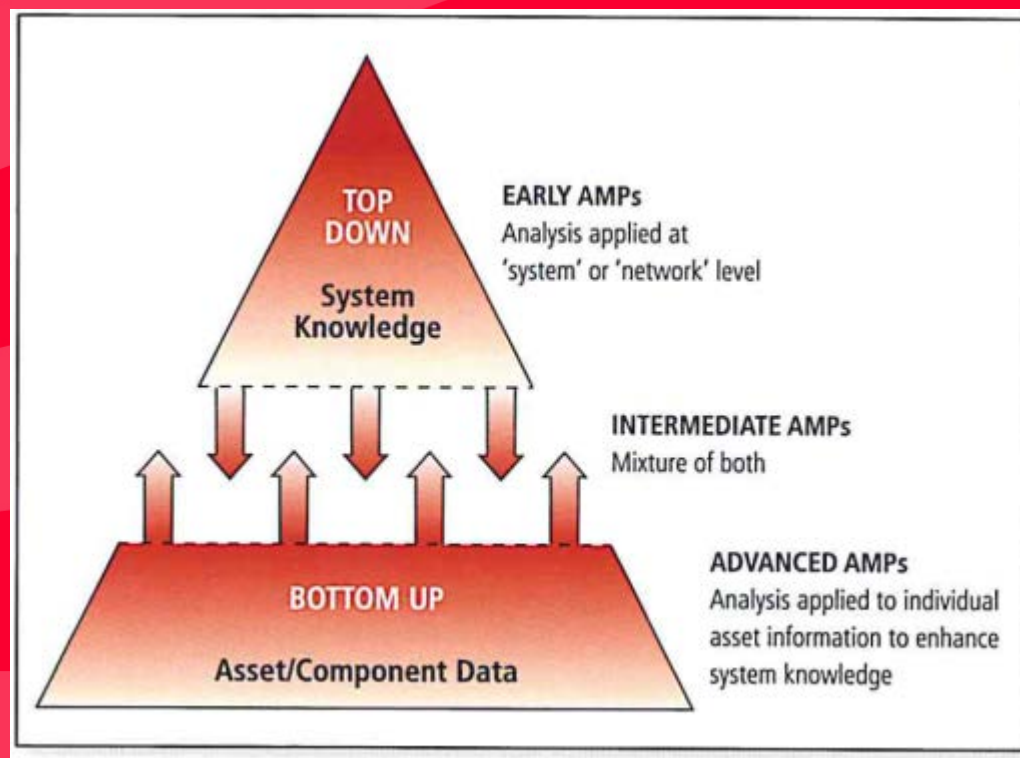
## Financial Considerations:

- Management of the assets to minimize their total life cycle costs.
- Optimize operational and capital investments through innovation and best practices for replacement, refurbishment and maintenance.
- Ensure a predictable and smooth investment program that prioritizes expenditures while minimizing risk and that is at a pace that recognizes customer impacts and is reflective of Kingston Hydro's resources.

# Capital Expenditure Planning Objectives

- Through the use of asset management, master planning and long term capital budget planning ensure the predictability of Kingston Hydro's proposed expenditures and enable the appropriate application of financial and human resources.
- That the capital investment plans ensure the appropriate investments required to meet obligations for enabling customer, third party, generation or regional planning projects.
- That the capital expenditures represent a balance between the financial resources needed to appropriately sustain the assets as identified in Kingston Hydro's Asset Management Plan and the impact on rates and affordability for customers.
- Ensure that the annual amounts of capital expenditures are consistent with Kingston Hydro's objective of achieving our allowable rate of return within approved debt/equity structure.

# Past – Future



# Elements in the DSP

- Regional planning approach
- Asset management principles used to identify level of investment needed to sustain infrastructure
- Capital expenditure plan developed
- Conservation and demand management
- Consider ability to connect renewable energy
- Identifies the specific capital projects proposed over the next 5 years
- Customer input reflected in plan

# Customer Input

A summary of the feedback identified support for:

- Capital improvements that improve reliability
- Pacing the investment for rate stability
- Having rates set for a 5 year period
- The commitment to keep operating costs below the actual inflation rate
- Maintain levels of customer service, including the one bill for all utilities
- Enhanced in-person support and assistance with conservation initiatives
- Annual meetings to discuss utility issues

# Investments By Driver \$24.9 million 2015-2020

Investment Category	Forecast (planned)						
	2015	2016	2017	2018	2019	2020	Average
System Access	\$ 502,000	\$1,051,000	\$ 491,000	\$ 565,400	\$ 495,800	\$ 544,900	\$ 608,350
System Renewal	\$2,621,000	\$3,409,000	\$2,077,000	\$2,876,200	\$2,983,400	\$2,902,200	\$2,811,467
System Service	\$ 304,000	\$ 327,000	\$ 159,000	\$ 421,400	\$ 293,800	\$ 431,900	\$ 322,850
General Plant	\$ 173,000	\$ 863,000	\$ 322,000	\$ 406,000	\$ 427,000	\$ 321,000	\$ 418,667
Total	\$3,600,000	\$5,650,000	\$3,049,000	\$4,269,000	\$4,200,000	\$4,200,000	\$4,161,333

# Drivers Of Investment

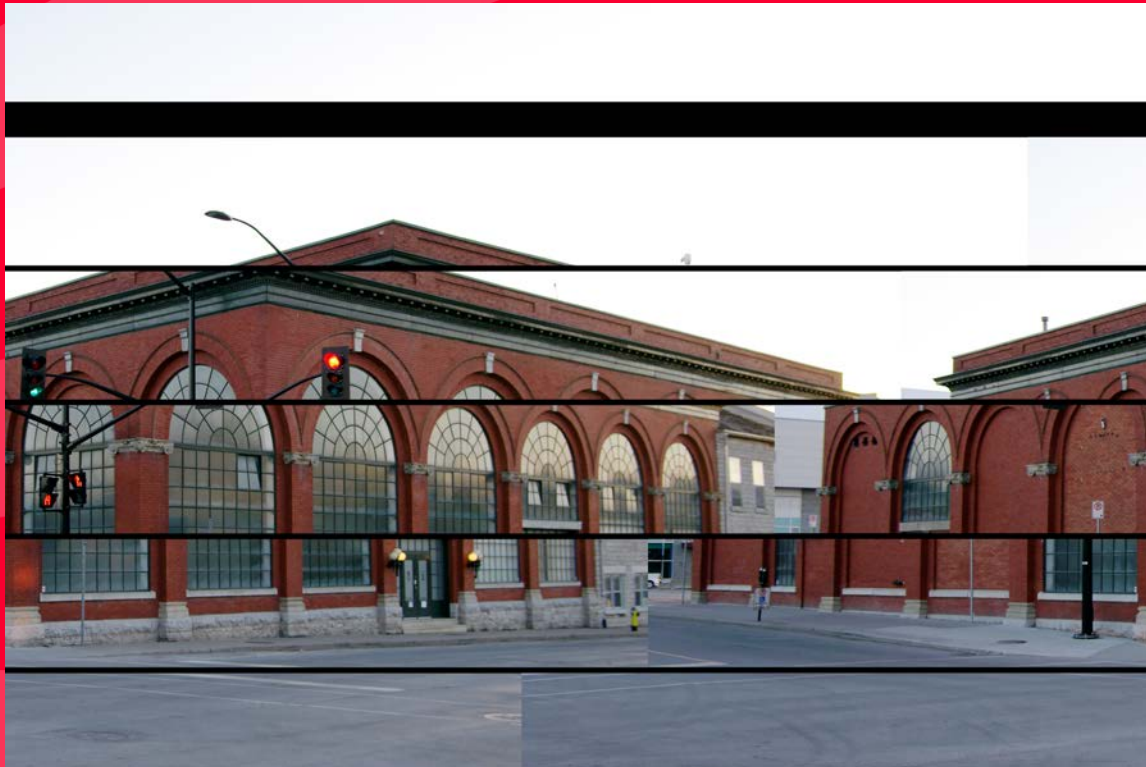
- System Access: investments required as a result of customer proposals (including generation proposals)
- System Renewal: investments to replace, renewal, refurbishment of assets that are failed, at or near the end of service life.
- System Service: investments needed to ensure the distribution system meets operational objectives
- General Plant: investments that are not part of the distribution system i.e. land, fleet, IT, tools, equipment.

## Investments By Driver

Investment Category	Forecast (planned)						
	2015	2016	2017	2018	2019	2020	Average
System Access	14%	19%	16%	13%	12%	13%	15%
System Renewal	73%	60%	68%	67%	71%	69%	68%
System Service	8%	6%	5%	10%	7%	10%	8%
General Plant	5%	15%	11%	10%	10%	8%	10%
Total	100%	100%	100%	100%	100%	100%	100%

Investment Category	Historical Expenditures					Average
	2010	2011	2012	2013	2014	
System Access	33%	3%	19%	16%	16%	17%
System Renewal	52%	88%	40%	78%	67%	65%
System Service	1%	4%	13%	2%	7%	5%
General Plant	13%	5%	28%	4%	11%	12%
Total	100%	100%	100%	100%	100%	100%

# Major Projects:



# Substation #1

In this application, we are proposing to invest  
\$3.1 Million towards the Substation No. 1  
rebuild project

The total rebuild project will require spending  
of approximately \$12 Million spread  
(to manage rate impacts) over a number of  
years

# Transformers



# Pole Replacement Program

**Deteriorated Pole Replacement  
Investment \$7,347,000**

Targeting to replace more than  
700 poles (representing about  
10% of total poles)  
that have been  
identified in  
poor condition

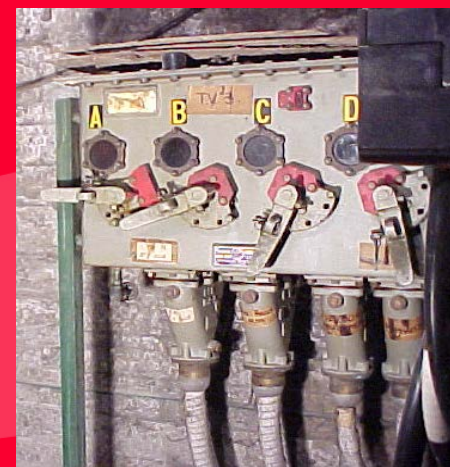


# Underground Transformer Vaults

**5 - Vaults \$1,865,000**

Located below sidewalks  
(mainly downtown)

Deteriorating concrete  
structures



Obsolete oil-type switches that cannot be safely operated when energized leading to outages that would not be needed with modern equipment

# Princess Street



# Princess Street

- Bagot to Clergy including side streets
- \$3.1 million
- 2015 & 2016 reconstruction

# Summary

- 2011-2014 – \$19 million or \$4.7m/yr.
- 2015 - \$3.6 million (bridge year)
- 2016-2020 – \$21.4 million or \$4.3m/yr.
- Reasonable and appropriate

# Summary

- We can do the work
- Investment levels are moving to sustainable levels -- long term strategy
- The 2016-2020 program is mindful of goals and objectives – particularly impacts to customers

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-3**

4  
5 **Interrogatory:**

6  
7 Please explain the Applicant's budgeting process. Please provide any internal budget  
8 guidance documents that were issued that relate to this Application.

9  
10 **Response:**

11  
12 The budgeting process is a combination of top down and bottom up. As detailed in the  
13 DSP Section 5.3.1 and in Section 5.4.2.a) , capital budgets are formulated with a view  
14 to the risks and needs of the system versus the availability of funds and related  
15 financing to perform the required work. Operating budgets are derived based on  
16 inflationary expectations and planned operating and maintenance activities. There were  
17 no internal budget guidance documents that were issued.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-4**

4  
5 **Interrogatory:**

6  
7 Please provide Kingston Hydro's 2013 Scorecard as referenced in Ex1/T8/S1 as well as  
8 copies of any other corporate scorecards Kingston Hydro has had in place. Please  
9 provide results and targets for the past 5 years and targets for the rate plan period, if  
10 available. If not available, why are they not available?

11  
12 **Response:**

13  
14 We have provided a copy of the 2013 scorecard referenced in Ex1/T8/S1. There are no  
15 other corporate scorecards.

16  
17 Results for the past 5 years are included in the scorecard and related MD&A filed with  
18 the scorecard.

19  
20 The scorecard targets are as discussed in 1-Staff-10.

# Response to The Consumers Council of Canada Interrogatory 1-CCC-4

## Attachment 1

									Target	
Performance Outcomes	Performance Categories	Measures	2009	2010	2011	2012	2013	Trend	Industry	Distributor
Customer Focus  Services are provided in a manner that responds to identified customer preferences.	Service Quality	New Residential/Small Business Services Connected on Time	100.00%	100.00%	97.80%	100.00%	100.00%	➡	90.00%	
		Scheduled Appointments Met On Time	99.30%	99.80%	100.00%	100.00%	100.00%	⬆	90.00%	
		Telephone Calls Answered On Time	67.10%	69.20%	64.20%	64.70%	66.90%	⬇	65.00%	
	Customer Satisfaction	First Contact Resolution								
		Billing Accuracy								
		Customer Satisfaction Survey Results								
Operational Effectiveness  Continuous improvement in productivity and cost performance is achieved; and distributors deliver on system reliability and quality objectives.	Safety	Public Safety [measure to be determined]								
	System Reliability	Average Number of Hours that Power to a Customer is Interrupted	3.14	1.08	1.45	1.78	4.87	⬆		at least within 1.08 - 3.14
		Average Number of Times that Power to a Customer is Interrupted	2.12	0.76	1.40	1.17	3.19	⬆		at least within 0.76 - 2.12
	Asset Management	Distribution System Plan Implementation Progress								
	Cost Control	Efficiency Assessment				3	3			
		Total Cost per Customer <sup>1</sup>	\$431	\$476	\$500	\$493	\$517			
		Total Cost per Km of Line <sup>1</sup>	\$32,419	\$35,510	\$37,046	\$36,554	\$38,667			
Public Policy Responsiveness  Distributors deliver on obligations mandated by government (e.g., in legislation and in regulatory requirements imposed further to Ministerial directives to the Board).	Conservation & Demand Management	Net Annual Peak Demand Savings (Percent of target achieved) <sup>2</sup>			71.00%	82.00%	70.70%			6.63MW
		Net Cumulative Energy Savings (Percent of target achieved)			34.00%	79.00%	111.90%			37.16GWh
	Connection of Renewable Generation	Renewable Generation Connection Impact Assessments Completed On Time			0.00%	0.00%				
		New Micro-embedded Generation Facilities Connected On Time					100.00%		90.00%	
Financial Performance  Financial viability is maintained; and savings from operational effectiveness are sustainable.	Financial Ratios	Liquidity: Current Ratio (Current Assets/Current Liabilities)	1.64	1.24	0.95	1.17	1.10			
		Leverage: Total Debt (includes short-term and long-term debt) to Equity Ratio	0.85	0.98	1.00	1.29	1.42			
		Profitability: Regulatory Return on Equity			9.58%	9.58%	9.58%			
					6.26%	10.34%	9.03%			

**Notes:**

1. These figures were generated by the Board based on the total cost benchmarking analysis conducted by Pacific Economics Group Research, LLC and based on the distributor's annual reported information.

2. The Conservation & Demand Management net annual peak demand savings do not include any persisting peak demand savings from the previous years.

Legend:

⬆

up

⬇

down

➡

flat

●

target met

●

target not met

# Management Discussion and Analysis for Year 2013

## Service Quality

New residential/Small Business Services Connected on Time: This indicator is exceeding the required 90% within 5 days. No immediate action is required. Maintain on-going monitoring.

Scheduled/Appointments Met on Time: This indicator is exceeding the required 90% within 5 days. No immediate action is required. Maintain on-going monitoring.

Telephone Calls Answered on Time: This indicator slipped below the required 65% calls answered within 30 seconds in 2011 and 2012. In 2013, monitoring was increased resulting in the indicator rising to just above the required 65%. On-going monitoring will continue.

## Customer Satisfaction

First Contact Resolution: New indicator. No discussion at this time.

Billing Accuracy: New indicator. No discussion at this time.

Customer Satisfaction Survey Results: New indicator. No discussion at this time.

## Safety

Public Safety: New indicator. Presently the OEB is consulting with the Electrical Safety Authority and will consult with stakeholders to identify a measure that is readily available for use as the Public Safety measure on the Scorecard. No discussion at this time.

## System Reliability

Average Number of Hours that Power to a Customer is Interrupted: This indicator for 2013 is not within the target of falling between 1.08 and 3.14 for Kingston Hydro. This is a direct result of the large ice-storm that impacted our system on Dec 20-22, 2013, without which, this statistical indicator would have been 1.02 – well below the target range.

Average Number of Times that Power to a Customer is Interrupted: This indicator for 2013 is not within the target of falling between 0.76 and 2.12 for Kingston Hydro. This is a direct result of the large ice-storm that impacted our system on Dec 20-22, 2013 without which, this statistical indicator would have been 1.15 - within the target range.

## Asset Management

Distribution System Plan Implementation Progress: New indicator. The Distribution System Plan (DSP) in our opinion means to ensure the appropriate management of our distribution assets by ensuring: i) Stronger governance and accountability; ii) More sustainable decision-making; iii) Enhanced customer service; iv) More effective risk management, and; It is management’s position that a meaningful measure of effectiveness would involve the comparison of the recommended number of units identified for replacement in the Asset Management Plan (by asset class) against a rolling 5 year average of actual activity by asset class completed by the distributor. The success of the DSP is then based in part on the ability of the distributor to sustain those assets by achieving the recommended targets over the life of the DSP.

## Cost Control

Efficiency Assessment: Kingston Hydro remains a 3 in Efficiency Assessment unchanged from 2012.

Total Cost Per Customer: Kingston Hydro remains one of the lowest cost utilities, on a per customer basis, at \$517 per customer. This metric is up from \$493 in 2012 and had increased 3.4% from \$500 from 2011.

Kingston Hydro is 16th lowest cost utility on a per customer basis in the Province out of a reported 73 utilities.

Kingston Hydro’s cost per km of line is at \$38,667 per km of line. This amount has increased over the last number of years due to the increased focus on replacing ageing infrastructure.

## Conservation & Demand Management

2013 Conservation Results: Draft verified conservation results from the Ontario Power Authority show that by Dec. 31, 2013, Kingston Hydro and its customers have achieved 104% of their Net Peak Demand Savings 2011-2014 target under “scenario 2” (i.e. if all demand response contracts currently in place are honoured by customers through Dec. 31, 2014). According the same report, Kingston Hydro and its customers have achieved 111.7% of their Net Energy Savings 2011-2014 target. This represents a 6.94 MW reduction in peak demand and a cumulative 41.4 GWh of energy savings from 2011-2014, and achievement of both demand and energy 2011-2014 targets a full year before the end of the current provincial CDM framework. We acknowledge that the methodology in the OEB scorecard is different than the OPA methodology to calculate CDM results.

**Connection of Renewable Generation**

Renewable Generation Connection Impact Assessments Completed On Time: No Impact Assessments were required - no discussion.  
New Micro-embedded Generation Facilities Connected On Time:At 100%, this exceeds industry. No discussion required.

**Financial Ratios**

Liquidity: Current Ratio (Current Assets / Current Liabilities):This ratio is not indicative of a true current ratio due to the fact that current liabilities include \$11 million in short term borrowing utilized to fund regulatory asset balances on the balance sheet. Regulatory assets are not included in current assets.

Leverage: Total Debt (includes short-term and long-term debt) to Equity Ratio: Total Debt to Equity Ratio is increasing as new debt is obtained to fund regulatory asset balances and ongoing capital replacement work. 3rd party financing ratios are well within limits.

Profitability: Regulatory Return on Equity: Deemed return on equity is 9.58% and actual return on equity for 2013 was 9.03%, 0.55% under the deemed rate. This was due to increased operating costs for 2013 due to additional onetime expenses related to the ice storm and additional onetime expenses related to Smart Meters.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-5**

4  
5 **(Ex.1/T2/S1/p. 6)**

6  
7 **Interrogatory:**

8  
9 It is stated on pg 6 that “the structure of investments is significantly more consistent,  
10 smoother, reflective of customer preference and resources available and intended to  
11 ensure the long term viability of the distribution assets.” It also states that 2016 of the  
12 proposed rate application is to be a standard rebasing year (Ex1/T3/S1/p14#15) and  
13 that for 2017#2020 Kingston is requesting approval of the proposed capital  
14 expenditures/additions for 2017#2020. Please explain how with this structure of  
15 investments and requests for approval, this application is different from a Cost of  
16 Service application for capital and 4th GIRM for OM&A?

17  
18 **Response:**

19  
20 Please see reply to 1-Staff-8 a).

---

**EXHIBIT 1 - ADMINISTRATION**

**Response to The Consumers Council of Canada Interrogatory 1-CCC-6**

**(Ex.1/T2/S1/p. 6)**

**Interrogatory:**

Referring to Table 2 please provide the depreciation and multiplier for 2011 – 2015.

**Response:**

2011 Depreciation is \$2,193,000 and multiplier is 2.6.

2012 Depreciation is \$2,319,000 and multiplier is 3.1.

2013 Depreciation is \$1,516,000 (including Smart Meter) and multiplier is 2.5.

2014 Depreciation is \$1,600,000 and multiplier is 2.1.

2015 Depreciation is \$1,648,000 and multiplier is 3.3.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-7**

4  
5 **(Ex.1/T2/S1/p. 6)**

6  
7 **Interrogatory:**

8  
9 How do the multiple factors for each year shown in Table 3 compare with other LDCs?

10  
11 **Response:**

12  
13 Please find attached a table for other LDCs derived from information provided during  
14 other Custom IR proceedings.

LDC	Year		Capital	Depreciation	Multiple
Horizon	2011		\$ 39,840,633	\$ 16,129,776	2.5
Horizon	2012		\$ 23,277,588	\$ 18,191,399	1.3
Horizon	2013		\$ 37,908,037	\$ 19,299,511	2.0
Horizon	2014		\$ 39,792,050	\$ 21,023,720	1.9
Horizon	2015		\$ 40,114,524	\$ 23,383,544	1.7
Horizon	2016		\$ 42,947,533	\$ 24,201,320	1.8
Horizon	2017		\$ 47,426,114	\$ 24,161,257	2.0
Horizon	2018		\$ 48,942,504	\$ 23,437,190	2.1
Horizon	2019		\$ 51,272,477	\$ 23,877,061	2.1
Toronto	2015		\$ 653,617,286	\$ (174,308,068)	3.7
Pow erstream	2015		\$ 143,066	\$ 40,457	3.5
Pow erstream	2016		\$ 117,323	\$ 46,034	2.5
Pow erstream	2017		\$ 144,358	\$ 49,969	2.9
Pow erstream	2018		\$ 123,416	\$ 52,655	2.3
Pow erstream	2019		\$ 134,164	\$ 55,509	2.4
Pow erstream	2020		\$ 126,677	\$ 58,649	2.2
Hydro Ottaw a	2015		\$ 106,900,077	\$ (38,557,773)	2.8
Hydro Ottaw a	2016		\$ 88,381,164	\$ (40,826,114)	2.2
Hydro Ottaw a	2017		\$ 86,889,357	\$ (44,145,078)	2.0
Hydro Ottaw a	2018		\$ 94,225,778	\$ (47,047,409)	2.0
Hydro Ottaw a	2019		\$ 68,614,422	\$ (48,948,694)	1.4
Hydro Ottaw a	2020		\$ 113,661,923	\$ (50,294,804)	2.3

---

**EXHIBIT 1 - ADMINISTRATION**

**Response to The Consumers Council of Canada Interrogatory 1-CCC-8**

**(Ex.1/T2/S1/p. 7)**

**Interrogatory:**

RE: Annual Deteriorated Overhead Infrastructure Program:

This program suggests redesign and rebuilds of continuous sections of an overhead line. The evidence goes on to say that if there is insufficient funding the poles will be replaced like for like which had previously been described as inefficient. If this is high priority work why are the funds not made available from other work programs according to their priority to ensure a long term rather than a short term fix?

**Response:**

Kingston Hydro would refer to the DSP submitted as part of this application. The DSP describes the asset management process, aspects that are considered, describes the decision making process and the capital expenditure planning process. All assets are considered within this context and one cannot simply suggest the reallocation of funds from one area to another area (poles) without considering the impact that creates on the asset previously prioritized for action within the 2015-2020 planning period. Kingston Hydro considers the proposed allocation of expenditures between assets over the 2015-2020 period to be appropriate and desirable given the considerations outlined in our DSP.

---

29 In particular it is Kingston Hydro submission that a historical spend of \$1.2 million  
30 annually on average over the last 5 years compares favorably with Kingston Hydro  
31 proposed spend of \$1.3 million annually on average over the next 5 years and is an  
32 appropriate level of investment in these assets based on the DSP considerations.  
33 Kingston Hydro does not foresee a situation where multiple pole projects would be  
34 avoided due to budget constraints. In all cases Kingston Hydro considers “what is the  
35 correct course of action” and what needs to happen to make that work. Kingston  
36 Hydro has undertaken like-for-like spot replacement because that action represented  
37 the optimal solution given the circumstances i.e. total line rebuild was not warranted  
38 and would be considered premature.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-9**

4  
5 **(Ex.1/T2/S1/p. 8)**

6  
7 **Interrogatory:**

8  
9 RE: Obsolete Oil Switch Replacement Project:

10  
11 Please explain why this work could not be accommodated through ICM or ACM as part  
12 of a 4<sup>th</sup> GIRM application?

13  
14 **Response:**

15  
16 In reviewing the Ontario Energy Board EB-2014-0219 Report of the Board New Policy  
17 Options for the Funding of Capital Investments: The Advanced Capital Module: Section  
18 4.4.4 The Adoption of the “Discrete” Project Criterion, in the first sentence there is  
19 emphasis on Discrete “must be discrete projects, and not part of typical annual capital  
20 programs”. In addition at the top of the next page it states:

21  
22 “The use of an ACM is not appropriate for a distributor that:  
23 Is not seeking funding for a series of projects that are more related to recurring capital  
24 programs for replacements or refurbishments (i.e. “business as usual” type of projects)”

25  
26 Kingston Hydro sees the Obsolete Oil Switch Replacement Project as “business as  
27 usual”. In fact, on the same page noted above, the application states: “Over the last few

---

28 years, Kingston Hydro replaced one to two oil switches on an annual basis; ...Kingston  
29 Hydro plans to continue this oil switch replacement program...".  
30 Kingston Hydro does not see this as a discrete project but rather as business as usual.  
31  
32 In addition due to a number of factors noted in 1-Staff-8 a) Kingston Hydro chose to  
33 submit a Custom IR which supports this type of capital work.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-10**

4  
5 **(Ex.1/T2/S1/p. 9)**

6  
7 **Interrogatory:**

8  
9 What is the average difference in cost between Greenfield development and infill  
10 development electrical infrastructure for the same facility type (as an example, 50 unit  
11 condo building)?

12  
13 **Response:**

14  
15 Kingston Hydro has done no work to compare the cost difference between Greenfield  
16 and infill development. In discussions internally, staff cannot recall any Greenfield  
17 servicing to a condo building (or any other development) in the last ten years.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-11**

4  
5 **(Ex.1/T2/S1/p. 13)**

6  
7 **Interrogatory:**

8  
9 Please expand Table 5 – Annual Estimate Savings # to include a column showing the  
10 total OM&A costs for that year.

11  
12 **Response:**

13  
14 Kingston Hydro total OM&A costs for 2014 was \$6,486,160.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-12**

4  
5 **(Ex.1/T2/S1/p. 13)**

6  
7 **Interrogatory:**

8  
9 What does “adjusted 2015 dollars” mean in this context?

10  
11 **Response:**

12  
13 The results of the analysis provided (i.e., \$1,653,550) were based on 2014 financials.  
14 The “adjusted 2015 dollars” refers to the conversion of the \$1,653,550 to 2015 dollars  
15 based on an inflation rate of 1.0475% from the Bank of Canada’s consumer price index.  
16 This yields the \$1,670,871.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-13**

4  
5 **(Ex.1/T2/S1/p. 14)**

6  
7 **Interrogatory:**

8  
9 Please expand Table 5 to include 2010 through 2014, including the addition the total  
10 OM&A costs for each year.

11  
12 **Response:**

13  
14 The information in the table is based on the report results obtained through  
15 considerable analysis and work by staff and auditors with respect to 2014 financials.  
16 Kingston Hydro respectfully submits that 2010 through to 2013 savings would be similar  
17 as a percentage of total OM&A, therein adjusted for inflation.

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**EXHIBIT 1 - ADMINISTRATION**

**Response to The Consumers Council of Canada Interrogatory 1-CCC-14**

**(Ex.1/T2/S1/p. 14)**

**Interrogatory:**

Is the service delivery model the only reason why Kingston's OM&A cost per customer is lower than the average since 2010?

**Response:**

Kingston Hydro believes that the multi-utility model is the primary factor providing a lower OM&A cost per customer than the average. However, it would be disingenuous to suggest that is the sole reason. Though they would be more difficult to quantify, other factors have impact as well: such as, procurement strategies, employee engagement, flexible crew deployments and work assignment efficiencies.

Also, refer to the Applicant's response to 1-CCC-17.

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**EXHIBIT 1 - ADMINISTRATION****Response to The Consumers Council of Canada Interrogatory 1-CCC-15****(Ex.1/T2/S1/p.15)****Interrogatory:**

Please include Total cost per customer for 2010 – 2012.

**Response:****Total Cost per Customer**

Year	Kingston Hydro	Industry average	% Below average
2010	\$476	\$593	20%
2011	\$500	\$614	19%
2012	\$493	\$622	21%

**EXHIBIT 1 - ADMINISTRATION****Response to The Consumers Council of Canada Interrogatory 1-CCC-16****(Ex.1/T2/S1/p. 15)****Interrogatory:**

Please include the number of customers for each year in Table 7.

**Response:**

Year	Kingston Hydro	Industry average	% Below average	# of customers
2013	\$517	632	22%	27,098
2014	\$519	Not available		27,232
Projected				
2015	\$538			27,338
2016	\$560			27,447
2017	\$569			27,558
2018	\$583			27,672
2019	\$597			27,787
2020	\$611			27,904

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-17**

4  
5 **(Ex.1/T2/S1/p. 23)**

6  
7 **Interrogatory:**

8  
9 Table 8 illustrates the demonstrated savings to Kingston Hydro ratepayers through  
10 the shared services model. What else is the utility doing to demonstrate operational  
11 effectiveness?

12  
13 **Response:**

14  
15 The Applicant would refer to the evidence filed in its Distribution System Plan and in  
16 particular Section 5.2.1.b) – Sources of Cost Savings and Section 5.2.3 Performance  
17 Measurement for Continuous Improvement which demonstrate other operational  
18 effectiveness activities proposed or underway.

19  
20 Refer also to the Applicant's response to OEB Staff Interrogatory 2.0-Staff-29 Vehicle  
21 Replacement Policy that demonstrates the extent to which Kingston Hydro extends  
22 the life of its fleet beyond the standard and typical timeframes.

23  
24 Some of the other initiatives that Kingston Hydro undertakes to improve effectiveness  
25 and efficiency follow.

26

- 
- 27 • Training/development of staff to undertake more live line work to reduce person-  
28 hours required to complete the work (in these cases, notifying, planning and  
29 switching for outages are eliminated).
  - 30 • Flexible crew deployments that right-size the crew to the work being performed.
  - 31 • Maintenance work (e.g., IR-scan repairs) and providing assistance with capital  
32 work is now routinely placed with the two-person service truck crew to complete.
  - 33 • Installing secondary spun bus as opposed to using open bus to reduce person-  
34 hours and materials required to complete work.
  - 35 • Replacing poles, but with increased pole spans and spun bus, which allows for  
36 less and shorter poles.
  - 37 • Evaluating opportunities for improvement with equipment replacement. For  
38 example, an old single-reel trailer was replaced with a reel trailer with capacity to  
39 handle dual reels. This reduces the setup time, and allows the installation of two  
40 conductors at once, as opposed to performing multiple pulls, thereby decreasing  
41 time.
  - 42 • Installing remotely operable line and substation switches, thereby negating the  
43 need to roll a truck crew to operate them.
  - 44 • Increased use of social and other digital media during emergencies not only  
45 provides better instantaneous customer communication, but reduces telephone  
46 calls and subsequently the human resources required to handle those incoming  
47 calls.
  - 48 • Implementation of the MyUtilities web portal allows customers to manage their  
49 account online.
  - 50 • Switching to use mobile radios in place of the more expensive portable radios that  
51 have a higher associated operating cost.
  - 52 • Improving information flow from field staff to their supervisors. Smartphones and  
53 tablets allow field staff to instantly send photos and information about issues to  
54 supervisors, eliminating a second trip to rectify the issue.

- 
- 55 • Substation staff, upon learning the expense of hiring qualified contractors that  
56 could remove asbestos from substations, voluntarily sought training on asbestos  
57 removal so that they could do it to reduce costs. Subsequently, they completed  
58 training, and removed the hazardous substance from cable wraps, racks and  
59 ducts at the 10 substations where it was present.
  - 60 • Kingston Hydro chose to regenerate and purify the oil in seven oil circuit breakers,  
61 thereby extending the life of these OCB's.
  - 62 • Continuing to improve crew access to infrastructure in order to reduce future O&M  
63 costs when crews are called to respond to problems, troubleshoot, make repairs,  
64 or sectionalize circuits. This is accomplished by considering all opportunities to  
65 change to on-ground or overhead infrastructure from underground infrastructure.  
66 Also, when replacing rear lot deteriorated infrastructure, the Applicant  
67 reconfigures the lines such that the transformers are moved out to truck  
68 accessible locations (such as the roadway). This also reduces and often  
69 eliminates backyard primary electrical lines.
  - 70 • The Applicant's purchasing group routinely gets best supplies and materials costs  
71 by seeking pricing directly from manufacturers. We are also currently involved with  
72 evaluating group cost-saving opportunities with a number of other LDCs.
  - 73 • Evaluating the feasibility and savings associated with co-purchasing a backyard  
74 radial boom derrick with another LDC.
  - 75 • Using "Contractor Safety Days" and "Public Works Day" that are presented to the  
76 community each year as opportunity to promote and improve the level of  
77 awareness and compliance with electrical safety. Contractor Safety Days alone  
78 currently attracts over 400 attendees and 250 companies from the local area.
  - 79 • Using service personnel to deliver conservation kits to customers while they are  
80 performing other work at customers' homes.
  - 81 • Converting a daily manual process to an automated one for retrieving and sending  
82 MV90 interval data to the customer billing system.

- 83 • Eliminating phone lines where other in-place network connectivity exists.
- 84 • Using pre-sampling of electric meters to reduce costs for sampling for government
- 85 reverification. This entails metering staff doing this in conjunction with other
- 86 metering work.
- 87 • Broadening field deployment of GPS technology to permit more GIS updating.
- 88 • Using field tablets for infrastructure inspection recording and data gathering.

---

**EXHIBIT 1 - ADMINISTRATION****Response to The Consumers Council of Canada Interrogatory 1-CCC-18****(Ex.1/T2/S1/p. 24)****Interrogatory:**

It states that the utility is working on smart grid implementation to facilitate distributed generation and storage of electricity. Please list the projects that the utility will undertake (including costs) from 2016 – 2020 in the areas of distributed generation facilitation and storage of electricity.

**Response:**

Kingston Hydro has a positive history of working with customers to facilitate distributed generation. Kingston Hydro has not proposed any projects or costs associated with its 2015 – 2020 capital investments as distributed generation and storage of electricity projects are customer driven. Kingston Hydro did undertake as part of the preparation of its DSP customer consultations around growth distributed generation and storage of electricity projects that might be considered within our planning horizon. None were identified. Consequently, Kingston Hydro has not identified any projects in the areas of distributed generation facilitation and storage of electricity within the DSP, as no works are planned that would exceed the materiality threshold during the 2016-2020 period.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to The Consumers Council of Canada Interrogatory 1-CCC-19**

4  
5 **Interrogatory:**

6  
7 What is the proposed materiality value for any Z-factor that Kingston Hydro may apply  
8 for?

9  
10 **Response:**

11  
12 Kingston Hydro would use the same materiality value as in this application - \$65,000.

1 **EXHIBIT 1 – ADMINISTRATION**

2  
3 **Response to Energy Probe Interrogatory 1-Energy Probe-1**

4  
5 **Ref: Exhibit 1, Tab 3, Schedule 1, page 16**

6  
7 **Interrogatory:**

8  
9 Is the list of adjustments proposed for 2017 through 2020 shown at lines 5 through 15 a  
10 complete list of the adjustments proposed by Kingston Hydro? If not, please provide a  
11 complete list of proposed adjustments.

12  
13 **Response:**

14  
15 The list of adjustments is the complete list of adjustments proposed by Kingston Hydro.

---

**EXHIBIT 1 - ADMINISTRATION****Response to Energy Probe Interrogatory 1-Energy Probe-2****Ref: Exhibit 1, Tab 3, Schedule 1, pages 15-16****Interrogatory:**

- a) On page 15 it states that the long term debt rate for 2017 through 2020 would be approved as part of this proceeding, while on page 16 it states that the cost of capital would be updated as part of the annual process. Please explain fully, including the adjustment (or not) of the average rate for embedded long term debt.
- b) Please explain how the PILS recovery amounts for 2017 through 2020 can be approved in this proceeding (page 15), when Kingston Hydro proposes adjustments to the cost of capital and tax rates as part of the annual process (page 16).
- c) Does the change in tax rates include changes in the corporate tax rate, changes in CCA rates and classes and changes in tax credits? What else would the change in tax rates include?

**Response:**

- a) Kingston Hydro is proposing that the long term debt rate for the period 2017-2020 be approved as part of this proceeding. Annual adjustments for the short term debt rate and the Return on Equity would be adjusted annually as updated by the OEB.

- 29
- 30 b) Kingston Hydro proposes to update the PILs model annually for the revised
- 31 revenue requirement as part of the annual Custom IR update filing.
- 32
- 33 c) See response to Part b) – the annual filing update would incorporate the revised
- 34 PILs model which would adjust for changes in corporate tax rates, CCA rates and
- 35 classes etc.

**EXHIBIT 1 - ADMINISTRATION****Response to Energy Probe Interrogatory 1-Energy Probe-3**

**Ref: Exhibit 1, Tab 3, Schedule 1, page 13 &  
Exhibit 1, Tab 7, Schedule 7**

**Interrogatory:**

Please reconcile the different residential bill impacts shown on the above two references. Is the difference due solely to deferral and variance accounts?

**Response:**

The residential bill impact table in Exhibit 1 Tab 7 Schedule 7 should appear as follows:

Bill Impacts	2015 Charge (\$)	2016 Charge (\$)	2017 Charge (\$)	2018 Charge (\$)	2019 Charge (\$)	2020 Charge (\$)
Residential, 800 kWh						
Sub-total A. Distribution (excluding pass through)	\$ 27.43	\$ 28.48	\$ 27.74	\$ 27.83	\$ 27.74	\$ 28.35
	\$ Change	\$ 1.05	-\$ 0.74	\$ 0.09	-\$ 0.09	\$ 0.61
	% Change	3.84%	-2.60%	0.32%	-0.32%	2.20%

The difference between the residential bill impacts in the above two references is not due solely to deferral and variance accounts.

The residential bill impact referenced in Exhibit 1 Tab 3 Schedule 1 page 13 is the total bill impact for a customer on TOU rates before taxes and OCEB. Deferral and variance accounts, as well as retail transmission rate changes, low voltage rate change, total loss factor change, and the removal of the debt retirement charge for the residential rate class in 2016 would be part of this total bill impact. Whereas the residential bill impact

---

25 table in Exhibit 1 Tab 7 Schedule 7 is to show the 'distribution charges only' portion,  
26 excluding pass-through charges.

27

28 Exhibit 8 Tab 4 Schedule 3 Attachment 1 (OEB Appendix 2-W) provides a full detailed  
29 residential bill impact for a customer with 800 kWh of monthly consumption.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Energy Probe Interrogatory 1-Energy Probe-4**

4  
5 **Ref: Exhibit 1, Tab 5, Schedule 1, Attachment 4**

6  
7 **Interrogatory:**

8  
9 Kingston Hydro has a letter of credit noted in Note 6(c) of the 2014 Audited Statements  
10 on page 18 required to meet the requirements of the IESO.

11  
12 a) What is the forecasted cost of this letter of credit in 2016?

13  
14 b) Where has this cost been included in the 2016 revenue requirement?

15  
16 **Response:**

17  
18 The forecasted cost of this letter of credit is recorded as a regulatory cost in Appendix 2-  
19 M under "Any other costs for regulatory matters (please define)". It is estimated at  
20 \$30,000 per annum.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Energy Probe Interrogatory 1-Energy Probe-5**

4  
5 **Ref: EB-2014-0002 Settlement Agreement dated September 22, 2014**

6  
7 **Interrogatory:**

- 8
- 9 a) Please comment on the acceptability to Kingston Hydro of the Efficiency  
10 Adjustment included in the Horizon Utilities settlement agreement as described on  
11 pages 31-32 of that agreement.
- 12
- 13 b) Please comment on the acceptability to Kingston Hydro of the Capital Investment  
14 Variance Account included in the Horizon Utilities settlement agreement as  
15 described on pages 32-35 of that agreement.
- 16
- 17 c) Please comment on the acceptability to Kingston Hydro of the Earnings Sharing  
18 Mechanism included in the Horizon Utilities settlement agreement as described on  
19 pages 29-30 of that agreement
- 20

21 **Response:**

22

23 While Kingston Hydro is familiar with the Horizon settlement agreement, we are not  
24 prepared at this time to comment on the acceptability of these mechanisms. Kingston  
25 Hydro stands by its current application.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-1**

4  
5 **Interrogatory:**

6  
7 Attached is a table, in both pdf. and Excel formats, comparing the most recent (2014  
8 RRR, and 2013 benchmarking) results of twenty-four Ontario distributors similar to  
9 the Applicant, including the Applicant. With respect to these comparison tables:

10  
11 a) Please identify any distributors on the list that the Applicant feels are not  
12 appropriate comparators, and provide reasons for that conclusion. Please  
13 identify any distributors that the Applicant feels should be on the list, and are  
14 not, and provide reasons for that conclusion.

15  
16 b) With respect to the OEB efficiency assessment:

17  
18 i) Please confirm that the Applicant is 15th ranked out of the 24 LDCs listed in  
19 2013, and 13th of the 24 LDCs listed for the three-year average.

20  
21 ii) Please confirm that on average, the LDCs in the comparator group have had  
22 costs below expected costs every year, but that the Applicant has had costs  
23 above expected costs every year. Please provide details of the Applicant's  
24 strategy to move its total benchmarked costs below the expected costs,  
25 including its forecast of when that crossover will occur.  
26

iii) Please provide reasons why the Applicant's efficiency assessment has become less favourable year over year for each of the four years it has been calculated.

c) With respect to cost per customer and cost per km. of line:

i) Please confirm that only four of the comparator distributors had 2013 costs per customer lower than the Applicant. Please provide any exogenous reasons (for example, customer mix) that should be taken into account in analyzing this metric.

ii) Please confirm that only two of the comparator distributors had 2013 costs per km. of line higher than the Applicant. Please provide any exogenous reasons (for example, terrain, vegetation or density) that should be taken into account in analyzing this metric.

d) With respect to OM&A per customer and Distribution Revenue per customer:

i) Please confirm that the Applicant's OM&A per customer is 7th best of the comparator distributors, and the Applicant's Distribution Revenue per customer is 9th best of the comparator distributors. Please provide details of any data inconsistencies or other anomalies known to the Applicant that would make these comparisons incorrect.

ii) Please confirm that the Applicant's growth in Distribution Revenue per customer, at 46.1% since 2005 (\$320.87 to \$468.79), is almost twice the industry increase of 23.3% since 2005 (\$412.57 to \$508.64, excluding Hydro

One and Toronto Hydro). Please explain the factors unique to Kingston Hydro that are the cause of this unfavourable variance.

- e) Please confirm that the Applicant's ratio of net PP&E to gross PP&E, at 61.27%, is substantially above the comparator average of 54.18% (excluding Guelph and Halton Hills, which reset their gross for IFRS purposes), and is the 4th highest of the comparator group. Please confirm that, in general, this indicates that, on a weighted average basis, the Applicant's PP&E assets are likely to be newer than those of other LDCs. If confirmed, please describe any aspects of the Applicant's capital spending strategy that caused this result.
- f) Please provide any information known to the Applicant that explains the fact that the Applicant's gross PP&E per customer is the lowest of the 24 distributor comparator group.
- g) Please explain the connection, if any, between the Applicant's multi-utility operational model and any of the favourable or unfavourable comparisons to the comparator distributors.

**Response:**

- a) Kingston Hydro does not agree that the distributors listed in the SEC table are relevant comparators.

Kingston Hydro refers to the Report of the Board in EB-2010-0379 ("The Report") issued on December 4, 2013. The Report provides the Board's final determination on its policies and approaches to the distributor rate adjustment

parameters and the benchmarking of electricity distributor total cost performance for the period 2014 to 2018. In the Report at page 20, the Board stated

“the Board has decided to rely solely on the econometric model to assign stretch factors to distributors. In general, there is lack of support amongst stakeholders for the use of peer groups and the Board finds the reasons cited compelling. In particular, stakeholders persuasively argued that there are too many variables that can affect distributor costs to be confident in peer group allocations. The Board expects that the use of one benchmarking model to produce a single efficiency ranking be more transparent and understandable for customers and distributors. Consequently, it should be easier for a distributor to identify its relative cost efficiency, act to improve it, move up the efficiency ranking and be rewarded through the annual group assignments by moving into a more efficient group.”

Further at page 23 the Board stated

“The Board has determined that PEG’s econometric model will be used for benchmarking distributor cost performance.”

The Board went on to state

“PEG’s model controls for the impact of various factors beyond management control on a distributor’s total costs. These factors, determined by PEG’s analysis to be statistically significant drivers of total costs, include:

- the number of customers served;

- 
- kWh deliveries;
  - system capacity peak demand;
  - average circuit km of line; and
  - share of customers served that were added over the last 10 years.

Furthermore, PEG's model employs a well-established estimation procedure, does not rely on peer grouping, and does not assume constant returns to scale. This benchmarking model will be used to predict each distributor's total costs, and the distributor's actual total costs will be compared to the econometrically derived predicted value."

Kingston Hydro has provided comparator information in its response to 1-Staff-16. The comparator information is based on the peer group allocations noted in the Report. The following distributors on the SEC list are not in the same peer group as Kingston Hydro:

Canadian Niagara Power  
Entegrus  
Essex Powerlines  
Festival Hydro Inc.  
Greater Sudbury Hydro Inc.  
Haldimand County Hydro Inc.  
Halton Hills Hydro Inc.  
Milton Hydro Distribution Inc.  
NewmarketTay  
Oshawa PUC Networks Inc.  
Peterborough Distribution Incorporated  
PUC Distribution Inc.

Welland Hydro-electric Systems Corp.

b) The data in the Table provided has not been validated by the Applicant. For the reasons outlined in a) Kingston Hydro does not agree that this is an appropriate comparator group.

i) This is not confirmed. Our review shows that for the table provided, Kingston Hydro is ranked 16<sup>th</sup> for 2013 efficiency assessment and confirms that Kingston Hydro is ranked 13<sup>th</sup> for the three year average.

ii) Confirmed.

Kingston Hydro's strategy to date has been to monitor and understand the evolving direction of the Board with respect to benchmarking. This has included participating in the OEB's 2014 Scorecard Implementation Working Group as well as the sub-committee for Benchmarking Process Improvements.

For the forecast please refer to the response to 1- Staff - 10.

iii) The Applicant has been becoming familiar with the Enhanced Benchmarking model that was issued by the Board in May of 2015. As we work with the model we anticipate that we will gain a better understanding of the key drivers underlying the assessment, however that analysis has not yet been completed.

Clearly the assessment can be influenced by many factors. For example, in 2013 the Kingston Hydro operating costs were impacted by the ice storm

occurring late in the year by approximately \$175,000. The 2014 total cost per customer as reported in the 2014 Electricity Distributor Yearbook was \$501, down from the 2013 \$517 so we anticipate an improvement in the 2014 assessment, however, that information is not available at this time.

c) The data in the Table provided has not been validated by the Applicant. For the reasons outlined in a) Kingston Hydro does not agree that this is an appropriate comparator group.

i) Confirmed. Kingston Hydro does not agree that the table provided contains appropriate comparators and therefore has not attempted to determine the reasons underlying any differences between it and the other utility data.

ii) Confirmed. Kingston Hydro does not agree that the table provided contains appropriate comparators and therefore has not attempted to determine the reasons underlying any differences between it and the other utility data.

d) The data in the Table provided has not been validated by the Applicant. For the reasons outlined in a) Kingston Hydro does not agree that this is an appropriate comparator group.

i) Confirmed. No inconsistencies or anomalies are known to the applicant.

ii) Kingston Hydro confirms that the Distribution revenue per customer has increased from \$320.87 to \$468.79 between 2005 and 2014. The 2005 rates were derived on the basis of the 1999 unbundling and Kingston Hydro did not have a Cost of Service application until 2006. As explained in EB-2010-0136 Exhibit 2 Tab1 Schedule 1 page 6 revenues were extremely low which

resulted in low rates until the 2006 Cost of Service application. Kingston Hydro does not agree that the variance is “unfavourable”. Kingston Hydro believes that the distribution revenue must be at a level that permits a sustainable re-investment in distribution assets that permit the utility to deliver the outcomes as described in the Renewed Regulatory Framework for Electricity Distributors. Kingston Hydro’s 2014 distribution revenue per customer of \$468.79 remains below average at 92% of the LDC average (without Toronto Hydro and Hydro One) and only 68% of the \$686.12 average of all LDC’s.

- e) The data in the Table provided has not been validated by the Applicant. For the reasons outlined in a) Kingston Hydro does not agree that this is an appropriate comparator group.

Confirmed Kingston Hydro’s Aging ratio in the table provided is 61.27% and that it is higher than the average of 54.18% provided in the question. Our review indicates that the ratio is the 6<sup>th</sup> highest in the table provided. Kingston Hydro does not agree that the table provided contains appropriate comparators and therefore has not attempted to determine the reasons underlying any differences between it and the other utility data.

- f) Kingston Hydro is an old utility, originally incorporated in 1886. In addition, its distribution area is surrounded by Hydro One resulting very low growth.

- g) Kingston Hydro does not agree that the table provided contains appropriate comparators and therefore has not attempted to determine the reasons underlying any differences between it and the other utility data.

Attachment to School Energy Coalition  
Interrogatory 1-SEC-1

(Attachment provided by  
School Energy Coalition)

Company	# of Customers	OM&A/ Customer	DX. Rev/ Customer	Gross PPE/ Customer	Net PPE/ Customer	Aging Ratio	Efficiency Assessment					Cost per Customer	Cost per km of Line
							2010	2011	2012	2013	3 Year		
BLUEWATER POWER DISTRIBUTION CORPORATION	36,115	\$336.47	\$596.97	\$2,715.63	\$1,441.75	53.09%	-3.2%	1.7%	6.4%	5.9%	4.6%	646	29,017
BRANTFORD POWER INC.	38,789	\$235.71	\$445.98	\$2,625.12	\$1,631.01	62.13%	3.8%	-2.5%	4.7%	0.7%	0.9%	507	39,373
CAMBRIDGE and NORTH DUMFRIES HYDRO INC.	52,684	\$274.29	\$525.45	\$4,067.29	\$2,090.55	51.40%	-10.1%	-7.8%	-3.3%	0.5%	-3.7%	624	28,714
CANADIAN NIAGARA POWER	28,627	\$329.51	\$653.78	\$4,829.35	\$2,944.46	60.97%	16.4%	15.6%	10.0%	13.8%	13.2%	726	20,275
ENTEGRUS	40,503	\$230.35	\$492.53	\$3,281.01	\$1,778.28	54.20%	-13.1%	-13.4%	-10.9%	-12.5%	-12.3%	531	22,407
ESSEX POWERLINES CORPORATION	28,640	\$235.64	\$406.15	\$2,401.82	\$1,545.55	64.35%	-17.0%	-17.1%	-12.6%	-17.2%	-15.7%	482	29,323
FESTIVAL HYDRO INC.	20,362	\$322.01	\$558.73	\$3,818.56	\$1,914.97	50.15%	20.5%	18.0%	20.2%	19.6%	19.2%	627	49,466
GREATER SUDBURY HYDRO INC.	47,187	\$328.46	\$505.18	\$4,129.28	\$1,650.06	39.96%	-2.4%	14.1%	16.7%	4.8%	11.9%	560	26,887
GUELPH HYDRO ELECTRIC SYSTEMS INC.	52,963	\$271.51	\$552.15	\$2,872.28	\$2,374.91	82.68%	12.4%	14.7%	-2.0%	0.8%	4.2%	608	28,952
HALDIMAND COUNTRY HYDRO INC.	21,323	\$352.62	\$620.61	\$3,737.07	\$2,238.68	59.90%	-27.6%	-24.1%	-18.7%	-23.7%	-22.2%	681	8,310
HALTON HILLS HYDRO INC.	21,534	\$246.30	\$475.89	\$2,682.71	\$2,424.87	90.39%	-27.2%	-24.9%	-27.5%	-35.7%	-29.5%	642	9,034
KINGSTON HYDRO CORPORATION	27,356	\$236.44	\$468.79	\$2,385.37	\$1,461.64	61.27%	0.1%	2.2%	2.4%	3.7%	2.8%	517	38,667
MILTON HYDRO DISTRIBUTION INC.	35,111	\$243.34	\$460.29	\$3,776.17	\$2,058.51	54.51%	-4.1%	-3.0%	-37.6%	-4.5%	-15.7%	654	22,402
NEWMARKET-TAY	34,871	\$231.48	\$504.72	\$3,060.63	\$1,581.13	51.66%	-14.6%	-21.0%	-19.5%	-19.5%	-20.1%	543	22,272
NIAGARA PENINSULA ENERGY INC.	51,824	\$329.23	\$624.45	\$4,653.17	\$2,319.69	49.85%	5.4%	5.2%	10.2%	1.1%	5.4%	672	17,408
NORTH BAY HYDRO DISTRIBUTION INC.	23,975	\$273.36	\$598.12	\$4,542.57	\$2,197.31	48.37%	3.6%	5.5%	5.8%	5.4%	5.5%	614	25,228
OSHAWA PUC NETWORKS INC.	54,731	\$204.78	\$361.92	\$3,105.41	\$1,558.90	50.20%	-21.7%	-18.0%	-14.5%	-17.4%	-16.7%	505	27,050
PETERBOROUGH DISTRIBUTION INCORPORATED	36,058	\$241.81	\$430.11	\$2,828.61	\$1,605.72	56.77%	14.0%	15.6%	13.2%	14.5%	14.4%	562	35,731
PUC DISTRIBUTION INC.	33,487	\$329.60	\$557.07	\$4,269.92	\$2,525.27	59.14%	-8.5%	-5.2%	13.4%	22.7%	10.2%	687	30,950
THUNDER BAY HYDRO	50,482	\$273.13	\$404.65	\$3,843.00	\$1,805.57	46.98%	9.6%	8.0%	-2.8%	8.2%	4.4%	585	25,631
WATERLOO NORTH HYDRO INC.	54,674	\$259.20	\$626.65	\$5,866.41	\$3,415.97	58.23%	-3.1%	6.4%	4.3%	10.6%	7.0%	728	25,066
WELLAND HYDRO-ELECTRIC SYSTEM CORP.	22,470	\$277.20	\$412.69	\$2,485.05	\$1,209.00	48.65%	-19.6%	-16.2%	-10.4%	-15.2%	-14.0%	472	23,533
WESTARIO POWER INC.	22,822	\$230.83	\$439.14	\$2,760.53	\$1,765.65	63.96%	-3.1%	-0.2%	-1.4%	2.2%	0.2%	550	24,220
WHITBY HYDRO ELECTRIC CORPORATION	41,488	\$255.33	\$542.70	\$3,694.88	\$1,707.55	46.21%	0.4%	-3.0%	-7.0%	-0.9%	-4.1%	642	24,806
Averages of 24 Distributors	36,587	\$272.86	\$511.03	\$3,517.99	\$1,968.62	55.96%	-3.7%	-2.1%	-2.5%	-1.3%	-2.1%	598	26,447

54.18%

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**EXHIBIT 1 - ADMINISTRATION****Response to School Energy Coalition Interrogatory 1-SEC-2****Ex. 1/2/1, p. 3****Interrogatory:**

Please provide vintage tables for the assets of the Applicant, as well as the assets of each of the other utilities managed by Utilities Kingston. Please provide any documents in the possession of the Applicant comparing the vintage of its assets against other LDCs either in Ontario or elsewhere.

**Response:**

Kingston Hydro has provided the information that is available with respect to the age of the assets at Exhibit 2 Tab 2 Schedule 1, the Distribution System Plan, section 5.3.2 c beginning at p. 72 Summary of Asset Age and Condition. Additional information can be found at Appendix 4 of the Distribution System Plan, 2012 Asset Condition Assessment.

Kingston Hydro is not responsible for the development or maintenance documents related to the age or condition of assets for the other utilities that are managed by Utilities Kingston.

Kingston Hydro is of the view that the information that has been requested with respect to the vintage of assets other than those that are the subject of this application is not relevant to this application.

- 
- 28 Kingston Hydro does not have in its possession any document comparing the vintage of  
29 its assets against other LDC's in either Ontario or elsewhere.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-3**

4  
5 **Ex. 1/2/1, p. 10**

6  
7 **Interrogatory:**

8  
9 Please provide details of the “much-needed capital infrastructure investments” that, in  
10 1999, had been “previously identified”, including any contemporaneous documents  
11 listing those needed investments.

12  
13 **Response:**

14  
15 The above quote does not refer to specific projects but is referring to work that was  
16 undertaken immediately after the municipal amalgamation of 1998 to understand at a  
17 high level the magnitude of the infrastructure backlog or deficit with respect to all public  
18 infrastructure in Kingston. Kingston Hydro is not aware of any contemporaneous  
19 documents with a detailed project list.

20  
21 Work has been undertaken over the past seventeen years to further understand the  
22 infrastructure needs of Kingston Hydro in more detail. This information now forms the  
23 basis of the Distribution System Plan that has been included at Exhibit 2 Tab 2  
24 Schedule.

---

**EXHIBIT 1 - ADMINISTRATION**

**Response to School Energy Coalition Interrogatory 1-SEC-4**

**Ex. 1/2/1, p. 11**

**Interrogatory:**

Please provide detailed, segmented 2016 budgets for each of the utilities managed by Utilities Kingston with the same level of detail, and if possible in the same format, as the Board's Revenue Requirement Work Form. If the Applicant has in its possession segment-specific financial statements for any of the utilities managed by Utilities Kingston for 2014, please provide those financial statements.

**Response:**

Kingston Hydro is not responsible for the development of budgets for the other utilities that are managed by Utilities Kingston. Further, the information is not available in the requested format.

Kingston Hydro is of the view that the information that has been requested with respect to the detailed budgets of the other utilities managed by Utilities Kingston is not relevant to this application.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-5**

4  
5 **Ex. 1/2/1, p. 12**

6  
7 **Interrogatory:**

8  
9 Please provide each of the “status reports” referred to in the quoted motion.

10  
11 **Response:**

12  
13 There have been no written status reports provided since the January 2015 motion.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-6**

4  
5 **Ex. 1/2/1, p. 13**

6  
7 **Interrogatory:**

8  
9 Please provide a detailed table, similar to Table 5, for each of the utilities managed by  
10 Utilities Kingston.

11  
12 **Response:**

13  
14 Kingston Hydro is not responsible for identifying the efficiencies for the other utilities that  
15 are managed by Utilities Kingston. Further, the information is not available in the  
16 requested format.

17  
18 Furthermore, Kingston Hydro is of the view that the information that has been requested  
19 with respect to the efficiencies of the other utilities managed by Utilities Kingston is not  
20 relevant to this application.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-7**

4  
5 **Ex. 1/2/1, p. 21**

6  
7 **Interrogatory:**

8  
9 Please provide a list of customer preferences and feedback that the Applicant heard in  
10 the customer engagement relating to this Application, and were not previously known to  
11 the Applicant.

12  
13 **Response:**

14  
15 The customer engagement exercise, in general, confirmed our understanding of  
16 customer preferences. The only area that was previously 'unknown' was the desire of  
17 commercial customers to have more access to long term rate projections to be used in  
18 their budgeting process.

---

**EXHIBIT 1 - ADMINISTRATION**

**Response to School Energy Coalition 1-SEC-8**

**Ex. 1/2/1, p. 23 and Ex. 1/2/1, Attach. 2, p. 5**

**Interrogatory:**

Please explain why Utilities Kingston stopped doing ten year financial and strategic plans after the 2013-2022 plan. Please file the most recent ten year plan, if it is not already filed.

**Response:**

The Utilities Kingston strategic plan is in place until 2022. A more current strategic plan does not exist. A review of the strategic plan will be undertaken prior to the expiration of the current one.

Kingston Hydro is not responsible for the development of financial plans for Utilities Kingston.

Furthermore, Kingston Hydro is of the view that the information that has been requested with respect to the financial plans of Utilities Kingston is not relevant to this application.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-9**

4  
5 **Ex. 1/2/1, p. 29 and Ex. 1/2/1, attach 2, p. 15**

6  
7 **Interrogatory:**

8  
9 Please provide a table showing the actual and forecast capital spending for each of the  
10 utilities managed by Utilities Kingston for the period 2011-2020.

11  
12 **Response:**

13  
14 Kingston Hydro is not responsible for the spending of the other utilities managed by  
15 Utilities Kingston.

16  
17 Furthermore, Kingston Hydro is of the view that the information that has been requested  
18 with respect to the actual and forecast capital spending for each of the utilities managed  
19 by Utilities Kingston is not relevant to this application.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-10**

4  
5 **Ex. 1/2/1, Attach. 1**

6  
7 **Interrogatory:**

8  
9 With respect to the Kingston Hydro 2012-2017 plan:

- 10  
11 a) p. 15. Please provide the Report on growth opportunities.  
12  
13 b) p. 16 (and Ex. 1/2/1, attach 2, p. 18). Please provide the corporate risk profile.  
14  
15 c) p. 17. Please provide the most recent Kingston Hydro ten year financial plan  
16 approved by the Board of Directors.  
17

18 **Response:**

- 19  
20 a) Please see report KH12-12-S Electricity Sector Review (Attachment 1).  
21  
22 b) Please see report KH03-15 Risk Management (Attachment 2).  
23  
24 c) The 2014-2023 Financial Plan (Attachment 3).

# Response to School Energy Coalition Interrogatory 1-SEC-10

## Attachment 1

**Motion**                      **KH12-12-S**  
**Date:**                      **October 29, 2012**



## Special Meeting of the Shareholder

**Moved:**

**Seconded:**

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To:                              The Shareholder of Kingston Hydro Corporation

From:                          The Board of Directors of Kingston Hydro Corporation

Prepared by:                J.A. Keech, President and CEO, Kingston Hydro Corporation

Subject:                      Electricity Sector Review

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### Background

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At the September 10, 2012 meeting of the Board of Directors of Kingston Hydro Corporation, the Board directed the President and CEO of Kingston Hydro to:

- a) Continue to operate Kingston Hydro on the basis that the Corporation of the City of Kingston will maintain ownership of Kingston Hydro in the long term;
- b) Monitor the Ontario electricity market and regulation, in particular the Report of the Ontario Distribution Sector Panel;
- c) Report back to the Board of Directors with the impacts of the Report of the Ontario Distribution Sector Panel as soon as they are known.

AND

Recommend the following for approval by the Shareholder of Kingston Hydro:

### Recommendation

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**THAT** the Shareholder approve a strategy to maintain ownership of Kingston Hydro at the present time; and

**THAT** the Board of Directors report to the Shareholder with the impacts of the Report of the Ontario Distribution Sector Panel which include **the effects to** Kingston Hydro of the recommendations of the Report of the Ontario Distribution Sector Panel and a recommendation to the Shareholder on what actions, if any, the Shareholder should take as a result of the Report of the Ontario Distribution Sector Panel.

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**Carried:** \_\_\_\_\_

**Defeated:** \_\_\_\_\_

**Chair:** \_\_\_\_\_

## Discussion

At the May 7, 2012 Annual General Meeting of the Shareholder of Kingston Hydro Corporation, following adjournment of the official meeting, a verbal presentation was made to the Shareholder regarding the then recently announced Ontario Distribution Sector Panel.

During the ensuing discussion, staff were requested to complete a business case analysis on all options currently available regarding ongoing ownership of Kingston Hydro and provide a report back to the Shareholder. The Shareholder indicated it may wish to exercise one of the options prior to the government acting on any recommendations of the panel. Staff have not completed a detailed Business plan of options available for reasons noted in the report but have provided a description of options available, with pros and cons and impacts.

A copy of the mandate of the Panel and specific questions they were exploring is included below.

Ontario Distribution Sector Panel	
Stakeholder Guidance Document	May 4, 2012
<p>The Ontario Distribution Sector Panel (Panel) has been set up to research, analyze, provide advice and make recommendations to the Minister of Energy regarding issues related to Ontario's electricity distribution sector and distribution models.</p> <p>The Panel has been tasked with conducting an analysis of the current system with a view to determine what financial advantages and savings could be realized, particularly for ratepayers, from consolidation of Ontario's local distribution companies.</p> <p>The Panel shall serve as an information resource to the Minister on matters related to distribution sector restructuring. The Panel will act as a vehicle to collect and bring forward the viewpoints of stakeholders, and to provide expert advice on how to improve efficiencies in the sector with the aim of reducing the financial burden on ratepayers, from both a short and long-term perspective.</p> <p>The Panel is interested in meeting with you to learn your views on distribution sector restructuring, specifically with regard to the efficiency, reliability, safety of the province's distribution systems, the associated impact on price of distributed electricity, and the capacity of LDCs to carry-out their foreseeable mandate. Restructuring should be interpreted broadly and could include, as examples, consolidation, co-ordinated procurement, co-ordinated administration, and/or re-assessment of service area boundaries, as well as any combination of solutions.</p> <p>In providing your submission, please be sure to respond to the following questions:</p> <ol style="list-style-type: none"> <li>Do you have a position on possible approaches to restructuring the utility sector, which is based on data or experience?</li> <li>How might such restructuring be arrived at?</li> <li>What would the costs and benefits be of such restructuring, with particular regard to the electricity ratepayer?</li> <li>What implementation issues and/or risks should be considered?</li> <li>What principles should govern restructuring?</li> <li>Do you have any further research to share with the Panel to support your position?</li> </ol>	

At the time of the meeting noted above, the detailed mandate of the Panel (copied above) was not clearly known. It was believed that the focus of the Panel would be on reducing costs of electricity in the province and that one of the items the Panel would be focusing on to accomplish this would be the reduction of the number of the Local Distribution Companies (LDC's), such as Kingston Hydro Corporation (KHC), in the Province.

During the ensuing discussion at the Shareholders meeting, staff were requested to complete a business case analysis on all options currently available regarding ongoing ownership of Kingston Hydro and provide a report back to the Shareholder. The Shareholder indicated it may wish to exercise one of the options prior to the government acting on any recommendations of the Panel. This direction was not done as a formal motion, as the meeting of the Shareholder had adjourned, and staff agreed to investigate providing such information.

As noted earlier, the official mandate provided above was not known at the time of the meeting, and since the Shareholder meeting the following has occurred:

1. The official mandate of the Panel has been publicly clarified (provided above).
2. Kingston Hydro was requested to provide a presentation to the Panel on June 5, 2012. A copy of the presentation which focuses on our model of achieving efficiencies through diversification of scope, is attached. The presentation was made by myself (Jim Keech), with Mr. G. Hunt, Ms. N Taylor, and Mr. R. Murphy in attendance. The presentation was extremely well received with several positive questions following the presentation.
3. In my role as Past Chair of the Electricity Distributors Association (EDA), I had the opportunity to chair an industry-led committee that prepared an extensive report that was submitted to the Panel on July 20, 2012 and also to appear before the committee again on August 2, 2012 to present the EDA's report and position. A copy of the executive summary of this report is also attached.
4. Near the end of August, following their stakeholdering process, in my role of CEO of Utilities Kingston, I was invited to appear before the panel again. This occurred on August 29<sup>th</sup>, at which time I was asked questions regarding the viability of our model in Kingston being successful if it were to operate with the LDC portion being larger, possibly regional. From the questions it appeared the panel realized the value of our model to Kingston ratepayers.
5. The LDC industry has been in what may be referred to, as a state of flux or uncertainty awaiting the findings of the Panel and its recommendations and any subsequent actions by the Provincial Government.

6. Although there is a lot of “noise” in the industry as to what impact this process may have on LDC’s going forward at this point, it is not known. The Panel seems to be functioning in a similar manner to the Drummond review process. It is not a recognized standing committee, and no direction has been given as to the process under which it is operating, who it must consult with or what the final report will include. There is also no indication if the Government will adopt all or any of the Panel’s recommendation.

One thing that is clear is that the Panel intends to issue its final report well before the one year deadline.

Although there is little value in speculating what impact all of this may have on Kingston Hydro, the possible impacts can be summarized as follows;

- No impact at all
- Pressure to sell or consolidate
- Forced to sell or consolidate
- Opportunity to purchase Hydro One assets within the municipality
- Opportunity to purchase Hydro One assets within a larger area in Eastern Ontario
- Opportunity to purchase or partner with other small LDCs in Eastern Ontario with the possible inclusion of Hydro One
- Opportunity to continue to pursue our model of efficiencies through scope

The consensus within the industry is that the likelihood of forced consolidations or sales is unlikely.

Since the Shareholder meeting, staff have been researching the request of the Shareholder noted above. To complete a detailed business case analysis of all of the possible options regarding ownership of Kingston Hydro would take a significant amount of staff time, and require the assistance of external expertise in determining valuation of our LDC or others, and provide advice on the mechanics of some of the options available. In addition the “flux” that the industry is currently in would make it difficult to enter into discussions with other LDC’s with the risk of under-valuing Kingston Hydro unless we were serious on following through.

As a result, staff have prepared a summary of the options that we see available in regards to ongoing ownership of Kingston Hydro. This summary includes:

- A brief description of each option
- An indication of some of the benefits pursuing the option would produce
- Consideration of some of the risks or concerns that may result if pursuing the option
- Other considerations for each option

In addition, since the City of Kingston made a strategic decision at the time of amalgamation in 1998, then reaffirmed this decision in 2000 with the incorporation of Kingston Hydro and Utilities Kingston to achieve efficiencies in the operation of its utilities through scope, we have also looked at the impact each option would have on Utilities Kingston and the other utilities/businesses it operates, and the City of Kingston who Utilities Kingston purchases a number of services from.

The options considered range from status quo, to total divestiture of the LDC, to acquiring other assets. Most of these also have variations available and are described below.

### **Status Quo**

Under this scenario, ownership of Kingston Hydro would remain as is, with the City of Kingston remaining the sole shareholder. Corporate structure would remain as is.

The benefits of this option would remain as they are today, and as described in detail in our presentation to the panel.

In addition, the Shareholder maintains the ability to provide direction to the Board of Kingston Hydro and subsequently its officers and staff to pursue specific directions in managing the assets and the business of Kingston Hydro if the Shareholder so desires. Such directions might include, but are not limited to:

- Accelerated emphasis on capital replacement to improve reliability or service new development.
- Slow down on capital investment and greater focus on Return On Investment (dividend payments) to the City.
- Focus on infrastructure improvements in certain areas to facilitate other municipal work which may not be a priority of Kingston Hydro and prove externally difficult to coordinate if not owned by the City (i.e. Downtown Action Plan and Princess Street Williamsville Reconstruction).

Risks of this option are also as they are today but may change depending the outcome of the panel.

The current risks are similar to those of the other utilities we manage which include environmental, health and safety of employees and public, damage to property as a result of infrastructure failure etc. There are limited specific risks specific to this business as a result of the high degree of provincial regulation that exists, mainly related to financial items and the possible inability to increase revenue as required, although other regulatory requirements may always arise.

New risks that may arise depending on the outcome of the Panel process include:

- Being forced to sell to a larger LDC or Hydro One

There may be concern that an action such as this would reduce the price the City could get. The risk of such action is low (forced sale or consolidation) and there would still be significant competition from others that if this should occur the City would be able to obtain a very competitive price for the assets.

This option would have no impact on the other utilities and businesses managed by Utilities Kingston or on the City of Kingston, as it would be business as it is today.

### **Divestiture of the LDC**

This option has several iterations, all of which have different impacts. The iterations can be summarized as follows:

- Total sale of the LDC to a third party (100%)
- Partial sale of the shares of the LDC to a third party
- Depending on the percentage of shares sold the results could be different
  - Sale of up to 10% of share value
  - Sale of between 10% and 49% of share value
  - Sale of between 50% and 99%
- Another iteration of this option is not an outright sale of shares but a pooling of the shares or share value of Kingston Hydro with another LDC or consortium of LDC's. This would likely involve 100% of the share value of Kingston Hydro and the outcome would be dependent on the total value of the combined LDC's. Likely in this case Kingston Hydro would be a minor shareholder and in the larger entity.

The following examines these options in greater detail.

#### **100% sale of Kingston Hydro**

Under this scenario The City would sell the shares of or the assets of Kingston Hydro to a third party.

Likely purchasers would be Hydro One, or one of the larger LDCs who have purchased other smaller LDCs and indicated an interest in continuing to grow, and could include, Ottawa, Veridian (Belleville, Port Hope Pickering etc.), Power Stream (Barrie, Vaughan, Markham) and possibly others. Unless regulatory changes are made, the transfer tax financially prohibits the sale to entities other than those municipally or provincially owned. The Shareholder would obtain a cash payment for the LDC and from that time on would be completely out of the business and have no control or say in the management of the assets or the service delivery.

All municipally owned electricity corporations pay Payments in lieu of Federal and Provincial income tax (PIL's). The amounts are calculated as if they were actual corporate income tax but instead of becoming part of general revenues are directed to the re-payment of the stranded debt that was left through the re-structuring of the former Ontario Hydro. In the event of a sale to a non-municipally or provincially owned company the PIL's payments become converted to corporate taxes resulting in a reduced amount being available to pay down the stranded debt. To address this "tax leakage" a transfer tax is payable on the sale of shares or assets. The tax payable is 33% of the fair market value of the assets or shares less PIL's payments that have been paid to date.

The pro side of this option is an immediate infusion of cash into the municipality. A very rough estimate of the amount this transaction would generate would be \$30 million. Such a sale would also eliminate any of the business risks associated with the ongoing ownership of the business, including environmental, and regulatory. The reduction in regulatory risk may be a positive point for this option. However, to date we have managed all regulatory risks successfully, including: a very successful cost of service rate application to the Ontario Energy Board, smart meter implementation which is ahead of many LDC's in the province, and arguably the most successful incremental capital module rate application of all LDC's which was recently approved for four specific capital projects.

Risks associated with such a decision are largely related to total loss of control of the business and service to current customers. There could also be long term financial risks depending on the value of the long term return from dividend payments, and current interest payments of 5.87% compared to the one time purchase price. This report does not complete a detailed financial analysis of this or any option as it is difficult to accurately determine the sale price without somehow testing the market or obtaining an expert evaluation.

A 100% sale of the company would have significant impacts on Utilities Kingston, including the other utilities and businesses the UK manages, and on the City of Kingston in the areas where Kingston Hydro through Utilities Kingston purchases services.

In the presentation to the Panel, we were able to show how managing the four major utilities and business through one provider results in savings to all of the end customers. Wherein the event of sale it is anticipated that the electricity rates for current Kingston Hydro customers would increase. In addition, rates for the other gas, water and sewer customers would have to increase as we would lose some of the efficiencies from the provision of multiple services. Again we have not completed a

detailed financial analysis. Attached in Appendix C is a comparison of LDC only, electric rates of existing LDC's who may be interested in purchasing the assets of Kingston Hydro.

A sale would also present options for the ongoing management of the other utilities including that of undoing the current corporate structure of Utilities Kingston and assuming the operations of the other utilities within the City of Kingston, with the exception of the fibre optics business which might also be sold.

The sale of LDC would obviously have a major impact on the employees of UK, which would have to be taken into consideration with any sale. Chances are the majority if not all of the unionized employees would stay with the successor company, although they do not have strict successor rights per se. Some non unionized staff and management may also stay with the successor company, although in all likelihood some would have to be terminated and financially compensated.

Through Utilities Kingston, Kingston Hydro is responsible for the purchase of services from the City of Kingston. The amount of the purchased services is approximately \$1,000,000 per year. With the sale of Kingston Hydro there would be a loss of revenue to the City and the possibility of extra capacity in some areas that would have to be considered.

Another point under this option that needs to be considered is the superior service model the City has to offer with the combined service to the electric, gas, water and sewer customers in the old city. The best example of this is one bill to the customer for the four services. Current customers may become inconvenienced and frustrated in that the City can no longer assist them with their electric matters.

### Partial Sale

#### *Up to 10%*

Under the Federal Income Tax Act a municipality may sell up to 10% of the shares of a municipally owned corporation and maintain its taxation exempt status. This would therefore not attract transfer tax. This could allow the infusion of private equity into the company while maintaining controlling interest. The 10% is set in current legislation.

This option brings different pros, and cons. With private equity any private company who would invest would be looking for a seat on the Board and a corresponding vote, and some control, although a 10% share would result theoretically in minimal control. A plus from this would be having access to resources and expertise from true private partners, which would likely provide different insights and more of a true business focus. The Shareholder needs to be aware that any private entity investing will likely over time be looking for a controlling interest.

*From 10% to 50%*

In this option, if the sale was to a municipally or provincially owned LDC no transfer tax is payable. If the sale is to a private interest, transfer tax would be payable. In this scenario controlling interest can be maintained.

It is our understanding there has only been one situation where a larger LDC has undertaken a 50% purchase of a much smaller LDC and the deal has just been approved by the Ontario Energy Board (July 2012). Generally where there have been acquisitions it has been a 100% acquisition of the smaller LDC by the larger LDC.

One of the requests to the Panel, and this was included in the submission by the EDA, was to change the rules governing the amount of private equity that may be invested to up to 50%.

If possible the sale of up to 50% would result in the immediate receipt of some cash for the shareholder, a sharing of risks, possibility of infusion of additional expertise on the Board of Directors, and the maintenance of control, although that control would obviously not be as strong as with 100% ownership. The risks associated with complete sale would also be mitigated as could the impact on UK employees, other utilities and the City of Kingston as a service provider to KH.

As in the other options a detailed financial analysis has not been completed and would be difficult to do without a large amount of additional work.

*Over 50% Sale*

We are not aware of any situations where between 50% and 100% of the LDC have been sold. To date we believe that all situations where more than 50% have been divested has either been a total share sale, or a pooling of assets. A sale of more than 50% would be giving up control of the asset. The pro of this option (to the 50% option) would be the removal of all restrictions imposed on the corporation by the Ontario Energy Board Act regarding what businesses we can be in, that is achieved at 51% divestiture, while possibly maintaining some control of the asset and long term investment. The degree of control would be negotiated during the sale process. As with the 50% option it would also reduce impacting other Utilities Kingston and City services.

The options noted above, with the exception of total sale, are considering other municipal LDCs or private investors where noted. Unless their direction changes, or they are mandated by the Province as a result of recommendations from the panel, we believe Hydro One to be only interested in a total purchase. Purchase by Hydro One could offer an additional advantage that the municipality would then have only one service provider for electricity distribution. Possible rate changes and employee impacts would have to be closely looked at as they both may differ from the purchase by another LDC.

The completion of any of these options would be a very complex process.

**Acquiring Assets**

A wide range of scenarios exist for this option as well. The most likely can be summarized as follows:

- Purchase of Hydro One assets within the municipal boundaries of Kingston
- Purchase of Hydro One assets as above but for a larger area than just the municipal boundaries
- Purchasing the assets of smaller LDCs within the Eastern area of the Province

The possibility of the Shareholder or Kingston Hydro purchasing the assets of any of the larger LDCs noted earlier would not likely be financially feasible and therefore is not contemplated.

For the possibility of either of the first two options to even be available would take a major policy shift by both Hydro One, and the Province, and again would likely require a strong recommendation by the Panel adopted by the Province (Shareholder of Hydro One) and literally forced onto Hydro One. To this point they have not been interested in sale, and we have explored this option a number of times since 1998, including some initial enquiries this year.

Regarding the purchase of some of the smaller LDCs to date, Kingston Hydro has made no serious enquiries, and we do not know if there is an interest. Again depending on the recommendation of the Panel any interest or lack of interest may change, and opportunities may exist.

There would be advantages to Kingston Hydro and the shareholder in pursuing any of the three options noted above should they exist. Although not a small LDC at 27,000 customers, we are not large, and growth of our customer base could add to efficiencies. If the decision of the Shareholder is to maintain ownership of Kingston Hydro, then increasing the size of our customer base would assist in offsetting the perception that currently exists that smaller LDCs are not efficient and either need to grow or be sold. Increasing our customer base and revenue would assist us in being able to increase our return to the City in the form of an increased dividend payment.

In regards to Hydro One similar to that noted in the sale option, there definitely would be advantages to the purchase of their assets within the municipality. As then there would be only one service provider which would eliminate a huge area of confusion for our customers. It would also provide what we see as improved customer benefits to those customers as they would need to deal with one less service provider for their utility services (keeping in mind that Union Gas would remain in the former townships).

Logistically, from an electrical distribution standpoint, it would be difficult and inefficient to draw a line at our municipal boundaries regarding service provision for current Hydro One customers. Most lines would serve customers on both sides of the road as an example, and depending on the setup of the distribution network, some lines may originate in a surrounding township, or may originate in Kingston and feed into the township. Thus this option may not result in a perfect solution regarding one service

provider or it may provide the opportunity for Kingston Hydro to expand its service territory past municipal boundaries. (UK currently does this for the fibre optic network).

One of the recommendations of the EDA and we believe of other presenters to the Panel, is that the role of Hydro One in the distribution business be limited. There will always be a role for Hydro One or a successor to provide distribution services in areas of the province where it is not feasible from a business perspective as densities are too low. Hydro One would continue in the transmission side of the business (the large towers that carry voltages of 110,000 volts to 500,000 volts). Should this recommendation be adopted, then Kingston has the opportunity to expand the role of Kingston Hydro to a regional LDC. This eliminates the concerns noted above. Currently Hydro One is the provider from Belleville to Cornwall with the exception of Gananoque. This option would provide additional advantages similar to those noted above and could pave the way for Utilities Kingston to expand service provision for water and sewer servicing, should the province mandate this or should other municipalities look for more efficient means of service delivery.

Should this option be available then we would also need to look at the purchase of some of the small LDCs in this area of the province. Appendix D lists the LDCs smaller than Kingston Hydro and their customer numbers.

Even if Hydro One assets are not available, an option is for Kingston Hydro to approach these LDCs and see if there is an interest in selling. Although we will need to see what the recommendations of the Panel are and again what the province adopts, there seems to be increasing pressure on any LDC smaller than 10,000 customers to look to ways to grow or to be sold. Currently we believe some of these smaller LDCs would prefer to look to a mid-sized provider like Kingston Hydro if they have to, as opposed to the larger LDCs so this may present some opportunity.

Purchase of any of these would again provide some of the benefits noted with the Hydro One purchase. It would also provide challenges as we are not contiguous (side by side electrically), and there is a fair distance between us and some of them.

Again we have not completed any detailed financial analysis of these options but the following needs to be considered. Any purchase would require an initial expenditure and establishment of the appropriate debt equity levels and this would have to be carefully scrutinized and managed carefully. Owning a larger asset base would eventually or perhaps immediately lead to a greater return by the Shareholder. Purchase options may be accomplished with the infusion of private equity similar to that noted above in the divestiture section which may bring similar advantages.

There are also risks or concerns associated with these options. Any of the day-to-day business risks (environmental, health and safety, service interruptions etc.) obviously remain and would be increased. Same can be said for regulatory risks. These can all be managed as they are today.

Purchasing assets would also result in employee issues, as would the sale, just Kingston Hydro would likely be acquiring additional employees from different bargaining units (Hydro One has the Power Workers Union). Additionally, for Hydro One their wage rates are much higher than Kingston Hydro's. There would also be issues with customer rates as Hydro One's are higher than Kingston Hydro's. A plan would need to be put in place for eventual rate harmonization.

A major due diligence exercise would have to be undertaken prior to the finalization of any purchase.

### **Share Partnering/Merger**

This option has some similarities to both the divestiture and acquisition options noted above. In simple terms it would mean Kingston Hydro would enter into an agreement with another LDC or group of LDC's whereby we all pool our assets into one company. If the value of Kingston Hydro's assets were to be \$30 million and the value of the others \$270 million then the shareholder the City of Kingston would own 10 % of the company. This would likely translate to 10% representation on the Board (likely one position) and a 10% return of the return the company makes.

The advantages to this option are a reduction in the risk factors of day-to-day business, and in all likelihood a greater return at some point as the company will probably grow faster than what Kingston Hydro currently has the possibility of growing.

Some concerns are again loss of control, and some of the employee issues of a divestiture, including impacts on the other utilities and the City of Kingston shared services. However with this option there is a possibility (although slim) that the Utilities Kingston service delivery model could be somewhat maintained, and the possibility (again slim) that the water and sewer and fibre portions could be expanded to offer services or expertise to establish similar services throughout the service territory of the new Company which the City would now be part owner of.

Again no financial analysis has been completed and this would obviously require a huge due diligence exercise.

### **Partnering Shared Services**

This option is close to the status quo but looks to partner with other LDCs of similar size and philosophies to share services, sometimes resources, ideas, business models, etc. to increase efficiencies and reduce costs. Kingston Hydro currently does this with the Grid Smart Consortium and can look to expand this or other opportunities. We have had discussions with several other LDCs regarding a model like this but to this point nothing else has evolved.

The pros and cons of this are somewhat limited although there may be a significant opportunity for savings or risk mitigation if there was to be more resource pooling. One of the challenges we face is most of the LDCs of similar size are geographically not close to us.

**Timing concerns**

During the discussion with the Shareholder it was noted that perhaps we should be out in front of the industry before the Panel delivers its report in case the findings may negatively impact the value of Kingston Hydro. At this point we do not see that as a risk. A number of the larger LDCs (and speculation is this includes Hydro One) are hoping there will be opportunities for them to acquire smaller and mid-sized LDCs as a result of the Provincial exercise. Should the decision be made to sell Kingston Hydro, there would be significant interest from a number of the larger LDCs and with our model of shared services perhaps more interest than other smaller LDCs may find.

In regards to acquiring, we can have discussions with some of the smaller LDCs at any time we are provided such direction and with Hydro One. However, until Hydro One is mandated, it is not likely a valuable use of our time.

**Summary**

As noted throughout this report what we have tried to provide the Shareholder with is a list of the options available, some of the pros and cons of each, and a brief description of each. We have not done a financial analysis of any of the options, or a detailed risk analysis of any.

At this point we are seeking Shareholder approval of the motion of the Board of Directors. The Board of Directors would then report to the Shareholder with the impacts of the Report of the Ontario Distribution Sector Panel, which would include a recommendation on what actions, if any, the Shareholder should take as a result of the Report of the Ontario Distribution Sector Panel.

Subsequently, the next stage could include a greater detailed analysis of the pros and cons, a high level financial analysis of the options, and depending on the options some initial market research (which may just involve contacting some of the other parties). Prior to pursuing any option, a detailed due diligence exercise would have to be completed. Depending on the level of analysis desired we may need to contract with a third party to provide the necessary expertise.

Pursuing any of these options will require a significant amount of dedicated staff time.

**Appendices**

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Appendix A - Presentation to the Sector Review Panel

Appendix B - EDA Condensed Report

Appendix C - Rates comparison for Hydro One - Veridian Ottawa and Powerstream

Appendix D - Summary of LDCs smaller than Kingston Hydro



## Ontario Distribution Sector Panel

June 5, 2012

Ontario Distribution Sector Panel  
Stakeholder Guidance Document

May 4, 2012



The Ontario Distribution Sector Panel (Panel) has been set up to research, analyze, provide advice and make recommendations to the Minister of Energy regarding issues related to Ontario's electricity distribution sector and distribution models.

The Panel has been tasked with conducting an analysis of the current system with a view to determine what financial advantages and savings could be realized, particularly for ratepayers, from consolidation of Ontario's local distribution companies.

The Panel shall serve as an information resource to the Minister on matters related to distribution sector restructuring. The Panel will act as a vehicle to collect and bring forward the viewpoints of stakeholders, and to provide expert advice on how to improve efficiencies in the sector with the aim of reducing the financial burden on ratepayers, from both a short and long-term perspective.

The Panel is interested in meeting with you to learn your views on distribution sector restructuring, specifically with regard to the efficiency, reliability, safety of the province's distribution systems, the associated impact on price of distributed electricity, and the capacity of LDCs to carry-out their foreseeable mandate. Restructuring should be interpreted broadly and could include, as examples, consolidation, co-ordinated procurement, co-ordinated administration, and/or re-assessment of service area boundaries, as well as any combination of solutions.

In providing your submission, please be sure to respond to the following questions:

- a) Do you have a position on possible approaches to restructuring the utility sector, which is based on data or experience?
- b) How might such restructuring be arrived at?
- c) What would the costs and benefits be of such restructuring, with particular regard to the electricity ratepayer?
- d) What implementation issues and/or risks should be considered?
- e) What principles should govern restructuring?
- f) Do you have any further research to share with the Panel to support your position?

- Utilities Kingston
- Our Model
- Cost Savings
- Customer Benefits
- Our Capacity
  - Local Distribution Company
  - Municipal Utility Service Provider
- Service Areas
- Remaining Questions

## Who are we?

We are not an LDC with add-ons

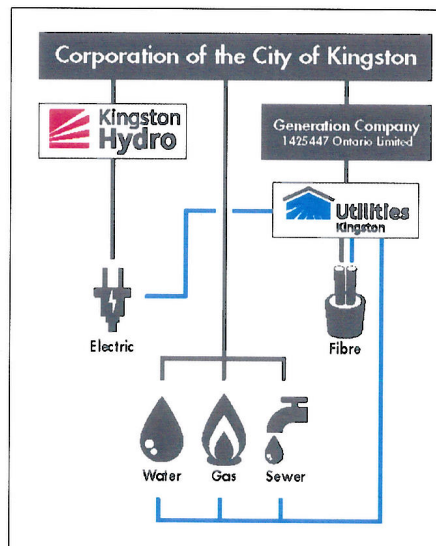
**We are the Utility Provider for  
the City of Kingston**

## Ontario Distribution Sector Panel

### Question a)

Do you have a position on possible approaches to restructuring the utility sector, which is based on data or experience?

5



## Principles Adopted

- Best Return/Lowest Cost to Municipality
- Lowest Possible Rates to Customers
- Best Customer Service Delivery
- Shared Services where possible
- Maximize Coordination for:
  - Development
  - Infrastructure Renewal
- Rate Based – Full Cost Accounting
- No Cross-Subsidization

7

	Customers (#)	Energy Revenue (\$ Millions)	Distribution Revenue (\$ Millions)	Operating Budget (\$ Millions)	Capital 2007 – 2011 (\$ Millions)
<b>Electric</b>	27,000	62.1	11.0	6.5	20.9
<b>Gas</b>	14,000	22.0	10.2	3.1	9.6
<b>Water</b>	37,000	N/A	18.5	10.3	64.8
<b>Sewer</b>	37,000	N/A	23.8	11.1	119.7
<b>TOTAL</b>	115,000	84.1	63.5	31.0	215.0

Employees: 220

8

## Ontario Distribution Sector Panel

### Question c)

What would the costs and benefits be of such restructuring, with particular regard to the electricity ratepayer?

9

## Benefits - Financial

Area	Cost to Kingston Hydro Shared	Cost to Kingston Hydro Stand alone	Total savings to Kingston Hydro	Savings to ratepayer/year
Postage for Billing	\$45,450	\$197,640	\$152,190	\$5.60
Printing Bills	\$18,630	\$81,000	\$62,370	\$2.30
Billing staff	\$200,000	\$400,000	\$200,000	\$7.40
Locates	\$64,000	\$160,000	\$96,000	\$3.55
Warehouse operations	\$63,000	\$207,000	\$144,000	\$5.30
<b>Total</b>				<b>\$24.15</b>
Kingston Hydro Monthly Residential Distribution revenue based on 800 kwh consumption		(excludes all rate components collected on behalf of other parties)		\$23.90

The savings from these 5 examples is approximately equivalent to one month's payment to Kingston Hydro per ratepayer

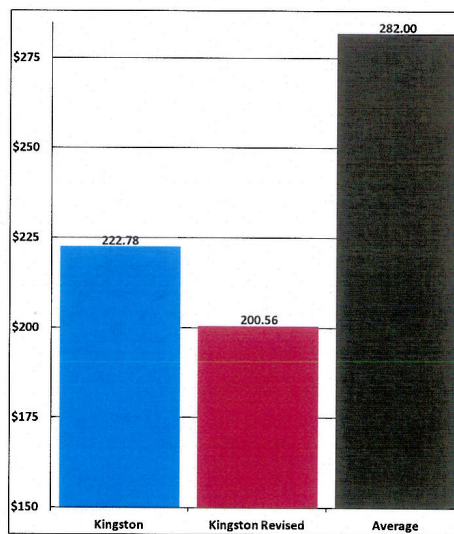
10

## Other Financial Benefits

- Training
- Backhoes and Vacuum Trucks

11

## Operating Costs per Customer - 2010



12

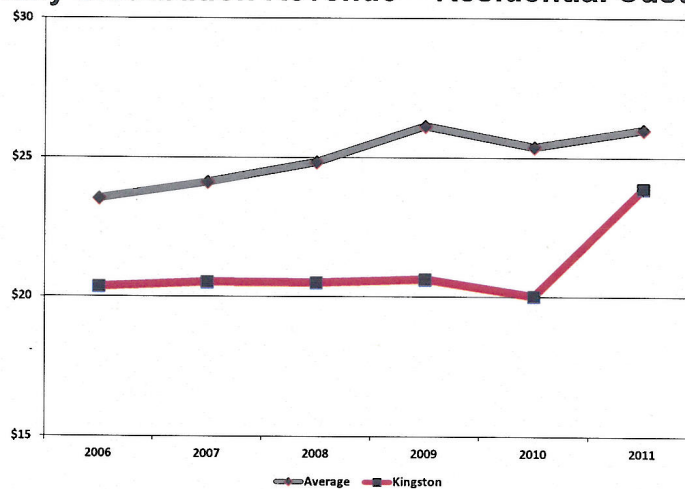
## Capital

**2-Block reconstruction of underground infrastructure on Alfred St. involving Electric, Water, Sewer, Traffic Signals & Streetlights and Roads**

Item	Description	Cost to Kingston Hydro Shared	Cost to Kingston Hydro Stand Alone	Total Savings to Kingston Hydro
Locates	1 locator / 1 trip	\$250	\$350	\$100
Inspector	1 Inspector used for all 5 utilities	\$2,400	\$10,500	\$8,100
Isolation / support	Isolation and support of electrical infrastructure only done once for all utilities	\$2,700	\$13,500	\$10,800
Restoration	Removal/restoration of sidewalk, asphalt pavement, civil works - only done once	\$70,600	\$177,000	\$106,400
<b>Sub-Total</b>		<b>\$75,950</b>	<b>\$201,350</b>	<b>\$125,400</b>
Other	Labour and Materials	\$570,210	\$570,210	
<b>Total</b>		<b>\$646,160</b>	<b>\$771,560</b>	<b>\$125,400</b>

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## Monthly Distribution Revenue – Residential Customer



14

\*Does not include Hydro One

## Monthly Distribution Revenue – Residential Customer

	2006	2007	2008	2009	2010	2011
<b>Average</b>	\$23.53	\$24.12	\$24.84	\$26.14	\$25.39	\$26.01
<b>Kingston</b>	\$20.37	\$20.54	\$20.52	\$20.64	\$20.04	\$23.90
<b>Ranking</b>	83/107	84/103	78/91	82/91	78/86	52/82
<b>% below Average</b>	13%	15%	17%	21%	21%	8%

\*Does not include Hydro One

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## Non-Financial Benefit to the Ratepayer

- Customer Service
  - One call to move
  - One visit for a locate
  - One bill to manage
- One-Stop Shop for Economic Development Inquiries
- Less disruption from construction projects
- Emergency Response

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## What we do...

17

### Ravensview Wastewater Treatment Plant - \$110 Million



18

Creekford Road  
Water Tower



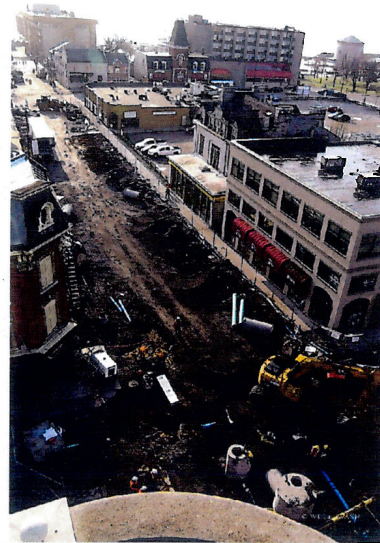
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Princess Street Upgrades Project



20

## Princess Street Upgrades Project



21

## High Pressure Gas Main



22

## Incentive Regulation Mechanism

- Incremental Capital Module
- 4 Projects
- Employee Driven – no professional assistance

23

## Ontario Distribution Sector Panel

Question b)

How might such restructuring be  
arrived at?

24

## Service Areas

- Hydro One – Bill 185
- Union Gas

25

## Ontario Distribution Sector Panel

Question d)

What implementation issues  
and/or risks should be  
considered?

26

## Ontario Distribution Sector Panel

### Question e)

What principles should govern restructuring?

27

## Ontario Distribution Sector Panel

### Question f)

Do you have any further research to share with the Panel to support your position?

28

## Ontario Distribution Sector Panel

### Question g)

How can utility innovation be encouraged to ensure that utilities are prepared to meet the needs of the 21<sup>st</sup> Century while providing maximum value to customers?

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## Thank you...

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# The Power to Deliver

A Six Point Plan for the Future of  
Electricity Distribution in Ontario



## The EDA's Six Point Plan for the Future of Electricity Distribution in Ontario

1. Expand the scope of LDC operations to manage water and waste-water services	\$ 180 million
2. Permit LDCs to carry out street lighting work	\$ 15 million
3. Expand LDC role in the development of CDM programs	\$ 20 million
4. Improve the regulatory framework within which LDCs operate	\$ 15 million
5. Curtail electricity retailer operations in the residential sector	\$ 260 million
6. Enable voluntary consolidation of LDCs	\$ 50 million
TOTAL ANNUAL SAVINGS	\$ 540 million

## INTRODUCTION

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Electricity is critical to the prosperity of Ontario's economy and social fabric. It's distributed to every end user in the province – residents, businesses, and institutions – by Ontario's 75 local distribution companies. Most people refer to these companies as “their hydro company” or “their utility”. The industry refers to these companies as LDCs, the term that will be used in this paper. But we should not overlook the importance of the word “their”, as many Ontarians have a community-based relationship with their local electricity distributor. Collectively, these companies are all members of the Electricity Distributors Association (EDA) – the authors of this paper.

Ontario is much like other jurisdictions in North America and Europe where there are many distribution companies. In the United States, there are about 3,200 entities serving retail customers. With a population of about 310-million and about 115-million customers nationwide, the average utility size is about 36,000 customers. In Ontario, there are 13-million people and approximately 4.8-million customers, so the average utility size in our province is about 60,000 customers. Germany and Denmark also have more distribution entities on a per capita basis than Ontario.

### **Ontario's LDCs proudly deliver reliable service at reasonable prices, and:**

- serve 4.8-million residential, business and institutional customers;
- employ over 10,000 Ontarians;
- provide in excess of \$360-million annually in dividends to shareholders;
- contribute more than \$260-million annually to the provincial government through payments in lieu of taxes (excludes Hydro One Distribution);
- bear responsibility for assets with a book value of about \$16-billion (the market value is much higher);
- invest approximately \$2-billion annually in capital upgrades and grid modernization, thereby creating additional jobs.

The province's electricity distribution system that operates today is a reflection of the industry restructuring that occurred in the late 1990s. At that time, the guiding principle of this restructuring was the premise that Ontario was moving towards a competitive electricity market. One of many results was that electricity distribution was separated from services such as water and waste-water treatment, conservation, street lighting ownership and maintenance, and other activities. Over the past decade, many facets of a deregulated industry model have since been abandoned. New themes now dominate the industry.

Over the past decade, government policy toward distribution has begun to shift once again. Distributors are now permitted to own and operate distributed generation facilities. They're involved in the delivery of conservation and demand management (CDM) programs, they've been required to install smart meters and many have investigated or implemented improved grid technologies. However, these expanded roles haven't been fully realized due to substantial increases in administrative and regulatory costs and complexities. As you'll see in this paper, the regulation of the electricity industry has not kept pace with changes in the marketplace or even the demand placed upon the companies that deliver power.

It's time to review this system and examine it closely.

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**The goal of every LDC is not only the safe, reliable delivery of electricity but also delivering the best value for the customer. This requires a constant focus on efficiency.**

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*The Power to Deliver* is a proposal that addresses many issues facing Ontario's electricity sector. This paper demonstrates that Ontario's outdated regulatory model has become a significant barrier in the ability of our members to grow and make the kind of long-term investments that are critical to renewing our infrastructure. You'll also read that our local members have been addressing Canada's so-called "Innovation Gap" for decades, as each of our members develop and test new ideas that, once successfully implemented on a local basis, are often taken as best practice across our entire industry. Ontario can become a crucible of innovation in the electricity industry, once again.

Indeed, the 75 member LDCs that serve the province are a broad well of innovation, and one that needs only the freedom to create and test to develop more system-wide tools for efficiency.

Front and centre in the conversation is the notion that there are too many LDCs and that the government must do something about this. Yet, since 1998, the number of electricity distributors has dropped from more than 300 to just 75 today. Every year, some of our members determine – voluntarily – that it's in the best interests of their customers and their shareholders to merge with another member. In this paper, we propose many ways to lower the cost of electricity. Consolidation is but one.

In fact, our Six Point Plan demonstrates that we can save Ontario's electricity customers approximately \$540-million – on which the voluntary consolidation of some LDCs is but one point.

### The EDA's Six Point Plan

1. Expand the scope of LDC operations to manage water and waste-water services	\$ 180 million
2. Permit LDCs to carry out street lighting work	\$ 15 million
3. Expand LDC role in the development of CDM programs	\$ 20 million
4. Improve the regulatory framework within which LDCs operate	\$ 15 million
5. Curtail electricity retailer operations in the residential sector	\$ 260 million
6. Enable voluntary consolidation of LDCs	\$ 50 million
<b>TOTAL ANNUAL SAVINGS</b>	<b>\$ 540 million</b>

Infrastructure changes require a long view. Short horizons, radical changes, and the quick adoption of new technologies on a mass scale are all prone to the Law of Unintended Consequences. We've experienced this with the *Green Energy Act*, provincially mandated conservation and demand management programs, and as far back in recent history as deregulation, re-regulation, and break-up of Ontario Hydro. Ontario's electricity industry – distributors, generators, transmission companies, governments (provincial and municipal), together with planners, operators, and regulators – all need to work together to address this long view.

The EDA envisions that the LDC of the future will be an integrated hub of innovation: electricity generation, delivery, and conservation. This full-service model will take advantage of its one-of-a kind relationship with its customers, its knowledge of every street, home, and business, and its personal network of people who live and work in the community.

The demands of our customers for electricity and how they'll use it is on the cusp of significant change. Our customers will want to plug in their electric vehicles, use smart-grid services to both feed their needs and re-feed the electricity grid. Indeed, many more of our customers will become generators of power as well as consumers. Ontario's local electricity grids – the wires and services that are operated and managed by the EDA's member LDCs – will become two-way power corridors. LDCs will have even more demands placed upon them in the years to come. The time has come to address these opportunities. We respectfully submit a summary of our proposal in the following pages. For the full submission, please visit [www.eda-on.ca](http://www.eda-on.ca).

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### **The LDC of the future will be an integrated hub of innovation: electricity generation, delivery, and conservation.**

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## REGULATORY REFORM

The Ontario Energy Board (OEB) regulates the costs and operations of Ontario's LDCs. The OEB also regulates nearly every aspect of the electricity system, including planning, the implementation of government energy policy, as well as the generation and transmission of electricity. The process, however, has become unwieldy. It has fostered an entire industry of intervenors (organizations that represent various constituency groups) and created disincentives for innovation and investments in infrastructure. This is indeed ironic, as the regulatory process designed to protect the customer from unnecessary costs has instead contributed to the increased cost of electricity. At the same time, it has hindered our ability to fulfill our most basic task – ensuring the safe and reliable delivery of power.

The regulatory costs borne by Ontario utilities, and ultimately by consumers, have grown substantially. This increase is largely attributed to increased scrutiny by the regulator and increased costs associated with intervenors – those people and organization who, as the term suggests, are currently entitled to intervene in the regulatory process. The EDA and its members recognize the value of the OEB in providing regulatory oversight in the interest of the customer. At its essence, the idea of listening to the voice of those affected is a good one. Yet, the costs associated with the current overall regulatory model have grown year over year as set out in the table, and is currently costing residential electricity customers close to a quarter of a billion dollars a year. If not addressed, this cost will not only continue to rise but the value to the customer be undeniably questionable.

### Regulatory Costs Incurred by LDCs

	2008	2009	2010
	<i>\$ in Millions</i>		
IESO Admin Charges	\$ 85.6	\$ 86.9	\$ 87.6
OPA Admin Fees	\$ 38.8	\$ 52.0	\$ 61.0
OEB License Fee and Cost Assessments	\$ 12.9	\$ 14.6	\$ 14.7
ESA Cost Assessments	\$ 1.9	\$ 2.0	\$ 2.1
LDC Costs for Regulatory Compliance	\$ 29.8	\$ 36.5	\$ 44.6
<b>TOTAL</b>	<b>\$ 169.0</b>	<b>\$ 192.0</b>	<b>\$ 210.0</b>

The EDA and its members have been examining these costs for several years. Our analysis was published in the 2011 paper titled *The Case for Reform: How regulatory streamlining could benefit Ontario's electricity consumers*.

The reforms to the regulatory process we recommended in 2011 are no less valid today. They were based on the principle that reform must benefit the 12-million people in Ontario who are our customers.

## Guiding Principles for Regulatory Streamlining

1. The cost regulation must be balanced with the benefit to our customers
2. The amount of regulation should be proportionate to the outcome
3. Our members should be allowed to recover the costs of refurbishing or replacing aging infrastructure in a timely manner
4. Decision-making by regulators needs to be timely (in some cases, years can go by while programs to reduce the long-term costs to customers sit on the shelf, waiting for approval)
5. The OEB lead and pre-screen interrogatories to avoid duplication; and, that
6. Intervenors must identify the people they represent and demonstrate that those people acknowledge and approve their representation.

Regulation, in our opinion, must become efficiency-based. While, the OEB is now conducting an analysis of the efficiency of distributors, distributors are not rewarded for actually being efficient. We believe that efficient LDCs should be rewarded with incentives – the minimum should be a more streamlined, fast-track approval process.

Some will argue that the existence of many small utilities absorbs too much in the way of regulatory resources. The model we propose will provide incentives for all distributors to reduce costs for the utility, customers and the provincial regulator.

For distributors opting for the fast-track process approach, this new fast-track approval process could allow the efficient utilities to adjust rates with less onerous procedures than are presently in place. This approach will provide incentive to distributors to achieve higher efficiencies based on benchmarks established by the OEB.

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**Efficient LDCs should be rewarded with incentives – the minimum should be a more streamlined, fast-track approval process.**

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## ECONOMIES OF SCOPE

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Not so long ago, when Ontario municipal distributors were regulated by Ontario Hydro, a number of electricity distributors operated as public utility commissions which provided multiple services – such as water and street lighting. As part of the move towards a competitive electricity market in the 1990s, the delivery of electricity was separated from other services. At the time, this move made sense. But this deregulated model has long been abandoned and new themes dominate the industry.

Today, with increasing amounts of new technology available and many new services available, new possibilities for economies of scope have emerged. It is time for the government and the regulators to allow for these new possibilities to be realized.

Multi-utilities exist in other jurisdictions. For example, many U.S. utilities provide electricity, gas, water and waste-water services, street lighting and energy conservation services. For municipal utilities owned by cities, it is also common to provide garbage and recycling services to customers. Finally, several utilities have been expanding to provide telecommunication services over fibre. As utilities invest in fibre infrastructure for SCADA systems and smart grid, providing reliable high speed service to customers has helped recoup some of the cost of the fibre system. By efficiently combining activities from more than one type of service, overall costs are reduced.

Utilities Kingston is as prime example of this and also the innovation required to find “work arounds” to make an ineffective model much more efficient. The company has been providing electricity, gas, fibre optics and water and waste-water services for the municipality since 2000 under one affiliate. Benefits of sharing overhead costs, equipment, metering/billing services etc. include:

- savings of over \$250,000/year from sharing billing services;
- savings of over \$440,000/year from sharing of executive roles across the different companies;
- savings of \$240,000/year from sharing operations such as locates for underground structures and fleet operations;
- savings of over \$1-million per year on average from engaging in joint construction projects.

In short, there’s no longer a need for separation of certain activities performed by distributors. It’s time to reduce or eliminate regulatory restrictions that have become barriers to the more efficient delivery of multiple services – barriers that once eliminated will reduce the cost of electricity and other services such as water, waste-water and street lighting. Changing regulations would make it easier and more cost effective for LDCs across Ontario to deliver these services with savings totalling \$195-million annually.

## ECONOMIES OF SCALE

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The factors affecting the efficiency of LDCs are: contiguity – the ability to serve all the customers within a given area; scale of operation – large LDCs can serve more customers at a lower cost; and, the scope of operations – combining more than one type of service that can be delivered to the same customer.

The largest concentration of population is in the Golden Horseshoe which is served by a series of contiguous utilities. Collectively these represent approximately 45 per cent of customers in Ontario. Hydro One Networks serves approximately 25 per cent of Ontario customers. Several utilities provide service to multiple non-contiguous areas. The EDA recommends that we should consider, wherever possible, expanding their service territories to create contiguous zones. There are a number of utilities which are surrounded by vast expanses of land with very low population density.

However, while there would seem to be potential for some contiguity benefits through restructuring, the impact on average provincial electricity rates is unlikely to be large. In fact, requiring distributors to absorb distant or low-density customers may be detrimental to the distributors' current customers.

Over the years, a single sentiment has been repeated over and over again; there are too many utilities and substantial efficiency gains could be achieved through consolidation. While consolidated LDCs may result in some efficiencies in some instances, consolidation in and of itself does not guarantee that the price consumers pay for electricity will be reduced. First of all, LDC costs represent only 24 per cent of the total electricity bill. Secondly, consolidation only makes sense if a business case can be made for it – and with 75 LDCs – the business cases for mergers and consolidation vary as widely as the LDCs themselves.

There will certainly be cases where gains can be made through consolidation. The natural question becomes how to achieve them. In some cases, mergers may, on balance, be unappealing because of rate or cost impacts. For example, labour costs at small utilities may be lower because living costs in the municipality are lower. Absorption into a larger utility may lead to a substantial increase in labour costs.

While electricity transmission and distribution are natural monopolies, Ontario transmission and distribution companies have been able to evolve and adapt to changing demands. Well-conceived incentive regulation can ensure that they continue to do so in the future.

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**LDC costs represent only 24 per cent of the total electricity bill.**

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### Structural changes to distribution sector should:

- be voluntary and commercially based;
- where possible, support contiguous or shoulder-to-shoulder mergers to optimize planning synergies;
- increase level of service and reliability to customers;
- reduce costs in the short and long term.

Economies of scale in our sector have already been created through collaboration. Opportunities for further ways for LDCs to work together will create even more efficiency. Today, many LDCs collaborate in a number of areas, such as:

- billing services shared by multiple electricity distributors
- billing services shared by various services (e.g., electricity, water and sewage)
- joint development of engineering standards and specifications
- shared services based on meter technology
- joint procurement of products and services
- shared services arrangements for regulatory filings
- sharing “locates” services
- delivery of CDM programs
- collaboration and aid during emergencies, extreme weather and natural disasters.

As with consolidation, these activities have evolved organically and are based on the value established in their specific business cases. LDCs continue to find ways to make the system work better for their businesses and their customers. By removing a few regulatory barriers, many more collaborative efforts can be created with the end result being a reduced cost of electricity for our customers.

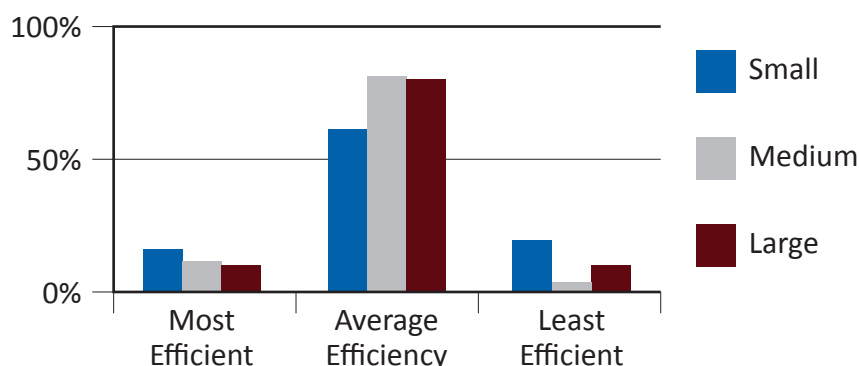


## Size Matters – not so much

Contrary to current sentiment, there is no systematic relationship between utility size and the efficiency of the utility. The figures that most people are using to judge efficiency do not adjust for utility-specific factors such as the density of its customer base, the age of assets, the customer mix, geographic or climatic influences, or total volume of sales.

The chart below was created from OEB data. It demonstrates that efficiency is not necessarily related to size.

Percentage of Distribution Utilities by OEB Cost Efficiency Category



## Barriers to Accessing Capital – a very real challenge

Local utilities require access to capital to renew aging electricity infrastructure and to modernize the system with next-generation equipment needed to ensure reliability in a dynamic system with a two-way flow of electricity. Current regulations limit LDCs' access to capital either through disincentives created by taxation or restrictions on additional investment by current shareholders.

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**Current regulations limit LDCs' access to capital either through disincentives created by taxation or restrictions on additional investment by current shareholders.**

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Currently, only LDCs with greater than 90 per cent of their share capital owned by one or more Canadian municipalities are allowed tax-exempt status under the *Income Tax Act*. If LDCs with more than 51 per cent of share capital owned by municipalities are allowed tax-exempt status, this would improve access to capital by attracting new investors.

Removing the restriction on municipalities from making further investments into their LDC would also increase an LDC's access to capital. The *Municipal Act* caps the total investments a municipality can make to the amount already invested at the time of incorporation of its LDC. That would be the same as restricting you from investing in your own house. But an LDC is not a house, it's a business, and its value to its shareholders and its customers is directly related to its wise investment decisions.

We believe that if LDCs are provided more options to raise capital, the much needed capital infusion into the industry would occur, which could later translate into further consolidation.

## LDC-led Conservation and Demand Management (CDM) – addressing local need and fostering innovation

The role of Ontario's distribution companies in conservation activities goes back many years. During the Second World War, Ontario LDCs first introduced conservation to Ontario consumers as part of Canada's war effort. Some 40 years later, when conservation again became a public objective, Ontario LDCs were at the forefront of development and delivery of conservation programs.

Many of the now centralized OPA programs introduced in 2006 had already been developed, tested, refined and managed by Ontario LDCs. Among these:

- **peaksaver** - initiated by Toronto Hydro and now in place province-wide;
- **Great Refrigerator Round-Up** – where inefficient refrigerators are taken out of service; and
- **Demand Response** - a program first developed by Sudbury Hydro that offers incentives to business to reduce their power use during periods of high demand.

It's essential to recognize that conservation programs need to be designed to meet local conditions and needs. The demand for electricity varies significantly. It depends on weather and climate conditions, the mix of customers, the types of industrial uses of electricity in particular and energy more generally, and the seasonal and temporal patterns of use. These factors in turn affect the potential for resource conservation through reduced usage, changes in patterns of use, and substitution of alternatives.

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**Conservation programs need to be designed by LDCs to meet local conditions and needs.**

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After consulting with its membership, the EDA produced recommendations on a new CDM policy framework for Ontario to produce cost-effective, customer-centered CDM programs.

### Key Principles in *Innovation from the Ground Up*

- The CDM framework should be designed to achieve the maximum cost-effective CDM, over long time periods.
- The framework should enable innovation.
- The framework should promote the development of local capacity to design and deliver CDM in Ontario.
- The CDM framework should establish the role of LDCs in CDM over a longer time period.
- The regulatory processes associated with CDM should balance scrutiny with simplicity.
- LDC CDM activities should be customer-centered.
- LDCs should have an appropriate level of control over outcomes, and should be fairly compensated.

The approach envisions that LDCs will take on full responsibility for funding, designing and delivering CDM programs. LDC commitment to CDM should be in line with the timelines reflected in the Province's *Long Term Energy Plan (2030)*. The government would need to affirm that the LDCs will be responsible for CDM as part of the LTEP until 2030.

In exchange for the increased risk, there would be commensurate incentives for the electricity savings which would be verified by a third party. Rewards would be based on the number of kW of capacity and kWh of energy that are being saved. Poorly designed programs would not be rewarded. LDCs could work individually, in groups and/or with the EDA.



If LDCs are able to design and deliver cost-effective programs using corporate or investor resources, both LDCs and the province will benefit.

What we have discovered through the top-down OPA programs is that customers who are seeking to make a long-term capital investment in order to reduce consumption may need to find funding in order to do so. This can mean engaging in an often onerous process from a conventional bank or other financial institution. In the end, this reduces the uptake of current CDM programs. Consistent with our recommended business approach, LDCs should be given the authority to extend financing to their customers for CDM investments. This will reflect local needs and our members' extensive knowledge of their local communities, as well as increase participation in CDM programs.

Under this proposal, local utilities could offer low-interest loans. The customer would repay the loan through an add-on to the standard bill. Energy savings resulting from the investment would help to offset a portion of the costs. Such a program would be beneficial to customers seeking to upgrade a heating system, insulate their homes, install new lighting or undertake some other utility-approved efficiency investment.

With the LDC offering financial services, a customer can access funds and repayment options through its utility where it already has a trusted, long-standing relationship with a business that has strong and deep roots in the local community to foster greater participation in conservation programs requiring capital investments. The cost of CDM implementation will be reduced and the amount of energy conserved will increase.

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**LDCs should be given the authority to extend financing to their customers for CDM investments.**

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## EFFICIENCIES THROUGH CURTAILMENT OF ELECTRICITY RETAILERS

During the period of market deregulation, which occurred in the industry at the beginning of the previous decade, electricity retailers were allowed to enter the electricity system to offer customers the benefits of competition and choice. Although the formation of an open market was eventually abandoned and regulated electricity rates retained, electricity retailers continue to do business in Ontario. Under the current system and for residential customers, they are in effect outliers and their continued presence impacts the entire rate base.

Approximately 15 per cent of the Province's customers are currently signed up with a retailer – the result being that they are paying 35 per cent to 65 per cent more than customers of LDCs (as identified by Ontario's Auditor General). Phasing out the role of electricity retailers for residential customers will save the electricity system approximately \$260-million. Additionally, LDCs and customers will benefit from reduced costs related to billing settlement processes, collections on defaults, and reduced need for regulatory oversight. Most importantly, almost 700,000 residential electricity customers will see the price they pay for power drop dramatically.

More than 70 per cent of complaint calls to the OEB are related to retailer practices such as door-to-door sales and the provision of potentially misleading information to customers. Contracts with retailers are typically for the cost of power. In most cases, these contracts do not protect against increases in delivery, regulatory, global adjustment or other non-energy charges. So while the customers enter into agreements with these retailers in the belief that they may save money, no savings will in fact occur. But in yet another example of regulatory and legislative barriers being created that actually harm the customer, rather than protect them, the OEB in a well-meaning attempt has expanded the number of regulatory tasks to oversee retailers. The impact of this expansion of tasks has a negative impact on the entire rate base in Ontario.

### The EDA recommends curtailing retailer activities to reduce costs

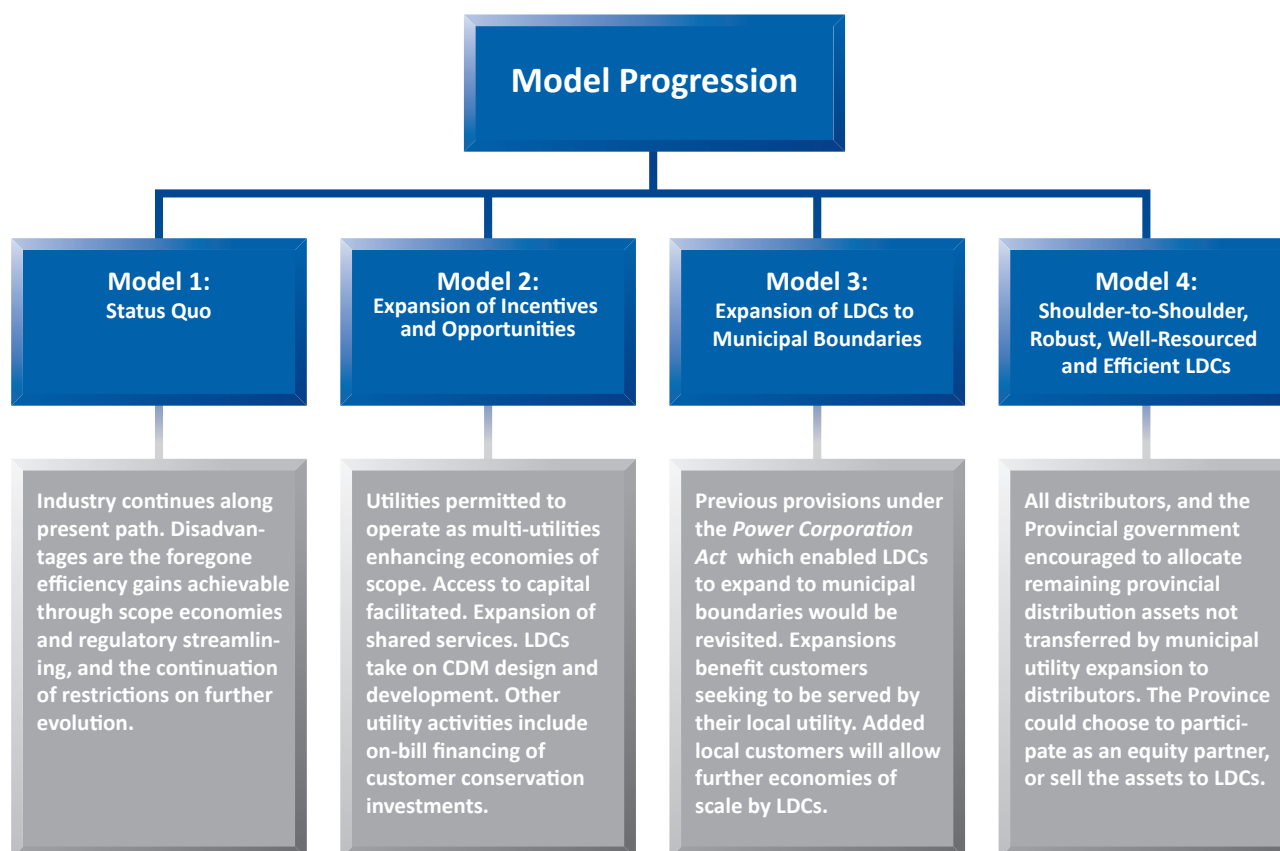
1. Disallow further electricity retailer contracts for residential customers
2. Phase out existing contracts with residential customers by allowing them to expire
3. Allow electricity retailing to continue only in circumstances where the value proposition can be clearly demonstrated for institutional, industrial, and commercial customers



## THE FUTURE OF ELECTRICITY DISTRIBUTION – FOUR MODELS TO CONSIDER

The overwhelming majority of Ontario LDCs would like to expand and grow their businesses. Our members are interested in increasing the scope and the scale of their activities. They believe mergers should be voluntary, incentive-driven and based on the prospect of being able to retain benefits for their shareholders and customers. All utilities currently cooperate with other LDCs in one form or another, leading to improved efficiencies and cost savings for customers. The key challenges are seen to be regulation, infrastructure renewal, and government policies and directives.

We offer four models for Ontario's distribution sector:



## Model 1: Status Quo

The “status quo” model assumes continuation of the present industry structure and regulatory and legislative framework. Continuing on the present path would not cause one to anticipate disaster – there’s no imminent crisis looming. But pressures are building. First, regulation is becoming progressively more onerous and an obstacle to change. Second, aging distribution infrastructure needs to be replaced or refurbished on an ongoing basis and utilities need to expand the system to continue to meet customer needs. Third, there’s an expanding gap between provincial CDM goals, and the ability of the system to reach the targets under the present framework.

The most visible challenges to the industry as a whole reside in the generation segment, in particular cost pressures associated with the nuclear program and renewable generation.

While the “status quo” may be able to sustain itself for a period of time, the overarching disadvantages of maintaining the status quo in the distribution segment of the industry are the foregone efficiency gains and the restrictions on further evolution.

## Model 2: Expansion of Incentives and Opportunities

The electricity industry is by nature one that breeds a risk-averse culture because of the overarching mandates for safety and reliability. But the current regulatory and policy environment within which Ontario LDCs operate is far more restrictive than necessary in areas unrelated to these two mandates. In fact, the lack of regulatory incentives for innovation, for example with respect to economies of scope, reinforces these risk-averse tendencies. Model 2 therefore focuses on the elimination of unnecessary constraints and the creation of productive incentives and opportunities. In all cases, a high degree of regulatory certainty is essential if innovative paths are to be followed.

This model would develop incentives and mechanisms that would expand economies of scope and encourage voluntary transactions that would bring scale efficiencies and benefits to customers and shareholders. Incentives and mechanisms would focus on:

- enhancing growth through scope by reducing regulatory and other barriers;
- facilitating more access to equity by the LDC/shareholder through regulatory and legislative changes; and,
- expanding shared services between utilities.

### Model 3: Expansion of LDCs to Municipal Boundaries

Model 3 would permit, encourage and provide incentive to LDCs to expand to municipal boundaries as a means to foster greater scale, improved efficiency and consistent customer service. (It's important to reemphasize that Model 3 is intended to build on the elements that would have already been in place under Model 2.)

Model 3 proposes that previous provisions under the *Power Corporation Act*, which facilitated expansion of LDCs to municipal boundaries, be revisited. Expansions of this type will benefit the customers seeking to be served by the local utility. The added local customers will allow further economies of scale for the LDC.

Many core components of the above model sequence can be implemented with relative ease, in part because they involve rescinding policies and regulations, and revisiting the intent of previous policies and legislation. None of these recommendations represent uncharted territory. However, the pace of change and the end-state depend largely on the future structure of legislation and regulation, and the intentions and resolve of the Government.

### Model 4: Shoulder-to-Shoulder, Robust, Well-Resourced and Efficient LDCs

One of the principles which underlies this model is the potential for gains arising out of economies of contiguity. The technology of electricity distribution is such that it's more efficient to serve customers that populate a contiguous self-contained area. A utility may serve multiple areas, but it's preferable if each of its service areas is of sufficient size so that economies of scale are also realized. The EDA does not view expanding the provincial government's role in distribution as an efficient or desirable consolidation option.

One of the difficulties likely to be encountered is the rate treatment of low-density customers. A continued rural-rate subsidy will be required. Establishing a separate entity to serve these customers and which receives appropriate transfers may comprise a practical solution.

#### Implementation Options

**Option A:** Under this alternative, the Government and regulator proceed with the necessary changes to enable the above sequence of models, but don't predetermine the end state.

**Option B:** Under this alternative, it's concluded that the Province is best served by shoulder-to-shoulder distributors, i.e., Model 4. Therefore, the government and regulator proceed with promoting the realization of Model 4.

Option A focuses on changes in the setting within which utilities operate. Option B focuses on the "end state" structure for the distribution industry. The EDA is willing and fully prepared to work with the government, utilities and stakeholders to determine the preferred option.

## CONCLUSIONS:

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LDCs have safely and reliably delivered electricity for over 100 years through locally based companies. Prior to 1998, LDCs offered numerous services to customers and their local municipality. The *Energy Competition Act* changed the LDC role dramatically. Over the past decade, the pendulum is shifting back towards an expanding LDC role. There's an opportunity now to improve efficiencies relating to regulation, economies of scope and scale. Returning CDM program design and development to distributors will be more efficient and more effective than the present approach.

The internal structure of LDCs should be permitted to evolve in order to exploit potential economies of scope. The separation of wires functions from other activities, that is unbundling, was sensible at a time when the main objective was to open the industry to maximum competition. That model has long since been abandoned and combining some activities, to the extent that it reduces costs, may be appropriate and should be pursued where beneficial.

### Radical change may be costly

The Ontario electricity industry underwent major changes during the last decade and a half, at very considerable cost. In hindsight, given where the industry is today, the necessary changes could have been achieved at much lower overall costs. Radical change today is also likely to be costly. We have evaluated several graduated models for the distribution segment of the industry. There are multiple nuanced differences among these models: no model is uniformly better than the others.

The best available empirical evidence indicates that the most promising path for evolving the structure of the distribution segment of the industry is to proceed on a voluntary basis. Strategic and advantageous mergers will occur as long as there are sufficient incentives to do so. Utilities that are at the forefront of developing new and better business models will lead the way.

Transmission and distribution functions are changing and emerging information-based technologies require the development of new functional capabilities. Foremost among these are the incorporation of distributed generation and the integration and expanded utilization of smart-meter and smart-grid systems. It should be recognized that these technologies alter the risk profile of distribution utilities which, when these risks achieve materiality, should be reflected in the returns that utilities are permitted to earn.

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**There's an opportunity now to improve efficiencies relating to regulation, economies of scope and scale.**

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Regulatory costs have grown steadily over the last decade and on their present path are likely to grow still further. The intervenor process, although an important part of the review process, has become a growing expense to customers. Capital expenditures to renew aging infrastructure, new conservation programs, investment in systems which can accommodate distributed generation and emerging information technologies will increase demands on regulators and wires companies.

## Improved regulation is essential

Improving and streamlining the regulatory process will be essential, and this responsibility does not reside with the regulator alone. Utilities may need to accept more risk and responsibility in order to save regulatory resources. At the same time, they should be provided with a clear opportunity to operate their businesses with as little regulatory and political intervention as possible.

It's natural to ask whether, after a decade of structural and legislative changes, we're in a better place. Considerable resources have been expended on restructuring resulting in a substantially more elaborate institutional structure. In parallel, regulatory and administrative expenses have increased dramatically for much of the industry. The broader objectives of decentralization and deregulation have, in many ways, fallen by the wayside.

Perhaps the most important lesson from the past is not to jump on the next trend too vigorously without careful reflection. Ratepayers have limited capacity for costly changes that prove to be lacking in efficiency or effectiveness. This, in turn, can endanger legitimate long-term objectives aimed at creating a more robust, dynamic and efficient system for the future.

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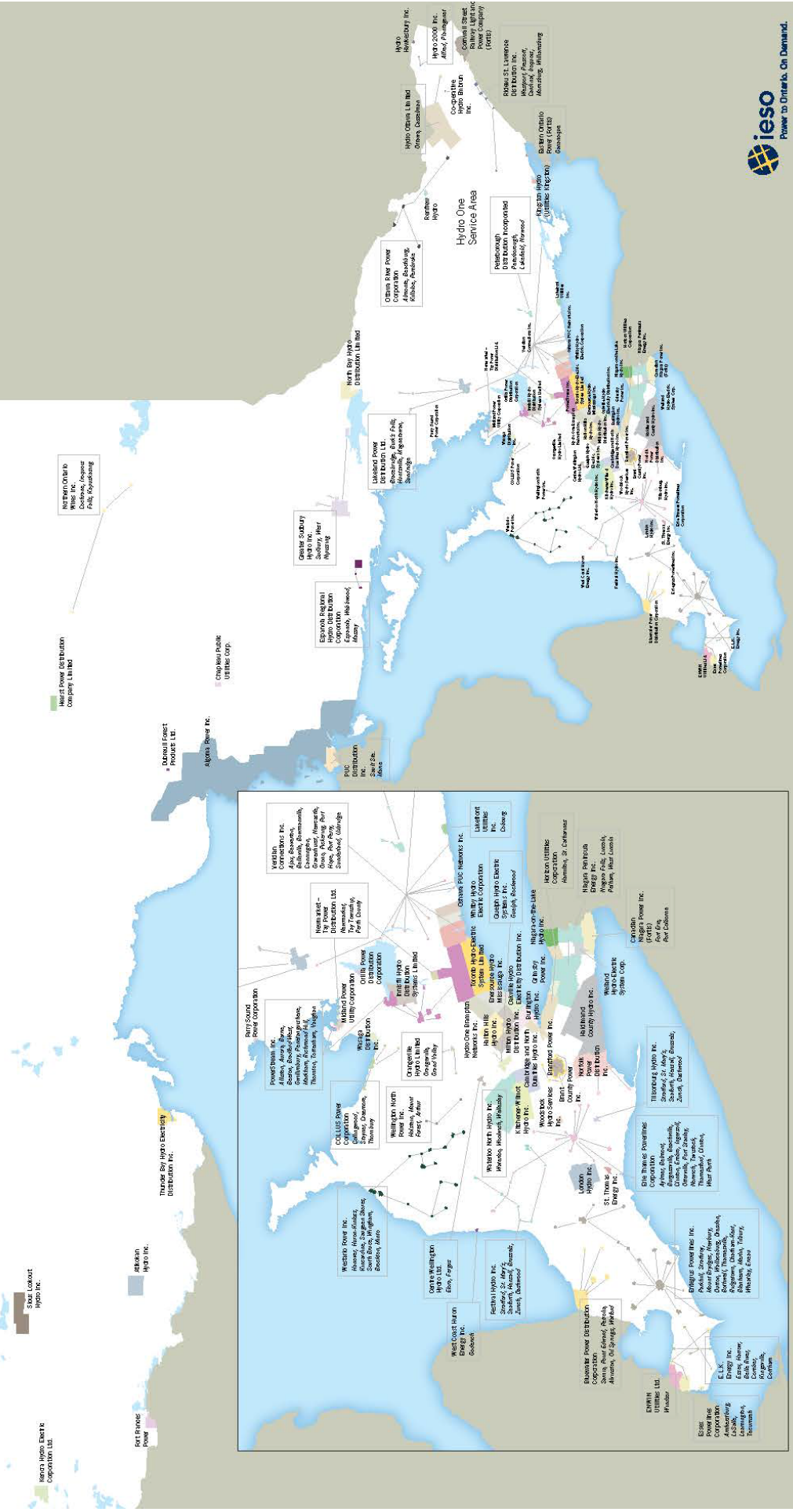
**Returning CDM program design and development to distributors will be more efficient and more effective than the present approach.**

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# ONTARIO'S ELECTRICITY DISTRIBUTION SYSTEM LOCAL DISTRIBUTION COMPANY SERVICE AREAS

Hydro One Remote Communities





**Electricity Distributors Association**

3700 Steeles Ave. West, Suite 1100, Vaughan, ON L4L 8K8

Tel. 905-265-5300 Toll Free 1-800-668-9979 Fax 905-265-5301

[www.eda-on.ca](http://www.eda-on.ca)



800 kWh

Rate Class: Residential

<u>LDC</u>	<u>Rates Effective Date</u>	<u>Fixed SC (\$)</u>	<u>Distribution Volumetric Rate (\$ per kWh)</u>	<u>Monthly Distribution Chgs</u>	
Hydro One Networks	01-Jan-11	14.52	0.02918	\$	37.86
Hydro Ottawa	01-Jan-12	9.32	0.02260	\$	27.40
Kingston Hydro Corp	01-May-12	12.17	0.01490	\$	24.09
Veridian	01-May-12	11.18	0.01570	\$	23.74
Power Stream	01-May-12	11.99	0.01350	\$	22.79

<b>2010</b>	<b>Total Customers</b>
Hydro 2000 Inc.	1,196
Cooperative Hydro Embrun Inc.	1,958
Eastern Ontario Power Inc.	3,561
Renfrew Hydro Inc.	4,155
Hydro Hawkesbury Inc.	5,496
Rideau St. Lawrence Distribution Inc.	5,818
Lakefront Utilities Inc.	9,571
Ottawa River Power Corporation	10,475
Kingston Hydro Corporation	26,944

Response to School Energy Coalition  
Interrogatory 1-SEC-10

Attachment 2

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**Memo:** KH03-15  
**Date:** January 12, 2015  
**Meeting No.** 2015-01

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**To:** The Board of Directors  
**From:** J. A. Keech, President & C.E.O., Kingston Hydro Corporation  
**Prepared By:** Allen Lucas, Research & Projects Manager, 1425445 Ontario Limited  
**Subject:** Risk Management

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## **Background**

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With the adoption of Kingston Hydro Strategic Plan, risk management was identified as one of the major strategic goals. In general the goal was to adopt a risk management plan that identifies the principle risks of Kingston Hydro's business and ensure the implementation of appropriate systems to manage these risks. This report begins the process of formalizing risk management activities in regards to the effect on both Kingston Hydro and Utilities Kingston as the operating entity for electricity.

Any activity involves an element of uncertainty and "risk management" provides a framework that is logical, consistent and disciplined in approach to an organization's uncertainties that enables it to deal with them prudently and productively and avoids unnecessary waste of resources. A useful definition of Risk is "An event or circumstance in the future that could significantly enhance or impede the ability of an organization to achieve its current or future business objectives." (Graham). While there is often a negative perception to risk, it is important to remember that risk creates opportunities and forces an organization to look at events in terms of the objectives. It makes an organization aware of vulnerabilities and creates an incentive to do something about them.

The concept of risk management is already embedded in many of the company's activities such as health and safety, work planning, etc. We all undertake less formal risk assessments on a daily basis when carrying out our daily functions. The problem with less formal risk management undertakings is the potential to overlook some aspects or minimize the value when considering competing priorities. This leads to looking at an integrated approach to risk management.

Risk management is not a new management system, existing independently and separated from the way the organization manages itself, makes decisions, allocates resources and holds people accountable. Rather, the process of managing risk can be done through:

- Understanding the risks to the business.
- Building vigilance into the organization in a systematic way through effective controls, operational measurement and strategic scanning.
- Create a culture that encourages effective risk identification, mitigation and monitoring.
- Orderly management of the process.
- Linking risk management to rewards and resourcing.
- Communicating to the organization, its stakeholders and owners.

By undertaking the systematic application of risk management across the organization we are undertaking “Enterprise Risk Management” or “Integrated Risk Management” (IRM).

Some important elements to note, IRM is:

- a continuous and systematic process to understand, manage and communicate risk from an organization-wide perspective,
- about making strategic decisions that contribute to the achievement of an organization’s overall corporate objectives,
- the planning and decision making of business processes, aggregates all types of risk across the organization, monitors and manages risk on a comprehensive basis,
- an inherent part of sound corporate management, and
- integrated into the organizational governance process.

Within the wider understanding of IRM, three competencies are especially important, Financial Risk Management, Operational Risk Management and Strategic Business Risk Management. These form the overall framework for the integrated risk management program.

One consideration for progressing with Enterprise Risk Management is to provide a scope that staff, management and Directors may relate to. The following is based on a presentation made by John Lark, Risk Practice Manager at Stratos Inc. in 2010 and serves as a starting point:

***Risk Management Scope***

*Kingston Hydro ensures that consistent, accurate and reliable risk information will be collected and provided to staff at all levels in a form, and at a time, that will provide for risk based planning and priority setting. Risks that are above the risk tolerance of Kingston Hydro will be assessed to determine if they can be further mitigated. Where mitigation can reduce risks to below the risk tolerance of Kingston Hydro in a cost effective way, the expectation of Kingston Hydro is this will be done.*

Further to discussions with Utilities Kingston Senior Management Team the following six Key Risk Areas were identified.

- Strategic Risk
- Operation Risk
- People & Culture Risk
- Financial Risk
- Knowledge Risk
- Environment Risk

To ensure a consistent approach in developing the Specific Risk Registers, a common understanding and definition of these categories is important. As every organization is unique, developing a common definition specific to Kingston Hydro provides a solid foundation for future works. The following were developed for guidance.

**Strategic Risk:** (definition) are those that either affect or are created by business strategy decisions such as governance, stakeholders and markets.

Strategic risks are at the core of the organization. In many instances these will be interlaced between Kingston Hydro and the Business Units of Utilities Kingston, such as our ethics, responsibility and reputation. However, there may be clear differences, such as stakeholders, laws and the public, especially where services are not common to all customers.

**Operation Risk:** (definition) impact specific utilities and operations through legal, assets and support processes.

Operation risks are catered mostly to the specific Business Units of Utilities Kingston. Some have clearly defined requirements to guide them, while others are under development. The interrelationship and overlap of these risks will become more evident through detailed evaluations and documentation which support the multi-utility model of Utilities Kingston.

**People & Culture Risk:** (definition) impact human resources, culture and management of change.

People & Culture risks are more broad and encompassing of risk management activities. Specific Units and functions will have varying needs and requirements, while processes and policies are at the core to ensuring consistency through the diverse needs of the business units and individual staff.

**Financial Risk:** (definition) impact the market, liquidity, capital structure and reporting requirements of Kingston Hydro.

Financial risks are perhaps one of the most mature in the organization. Having policies and procedures in place, in many instances required or mandated by external forces have been tried and tested. The effect and impact of these risks currently appear clear and as a result may not always be fully considered, either by focusing on the financial risk predominantly or overshadowing it with something such as an operational risk of Utilities Kingston.

**Knowledge Risk:** (definition) impact our systems, information management and intellectual property.

Knowledge risks are affected by technological advancements as much as they are by historical practices and familiarity. Many of the impacts are due to bridging these areas.

**Environment Risk:** (definition) impact to natural, built, social and financial systems.

Environment risks include broader categories to encompass more than the natural environment which is typically considered when using the term “environment”. The objective will be to consider issues similar to when undertaking an Environmental Assessment.

Development of the Specific Risk Registers for Kingston Hydro and the Utilities Kingston Business Units is an iterative process. The Integrated Risk Management process is systematically developed through the Risk Identification, Risk Assessment and Risk Management Steps. Provided in Appendix A is the Risk Tolerance Matrix developed for this.

The following provides the principal risks identified for Kingston Hydro, grouped within the above noted Risk Areas, and their risk assessment. While a risk may be considered in multiple areas, for the relative ranking, the expected ranking would be the same. Therefore each specific risk is only shown once. The Risk Rating or Scoring is arrived at by multiplying the Impact Score by the Likelihood Score. As shown in the Risk Tolerance Matrix these range from 1 to 5 from Very Low to Very High.

**Table 1**  
**Kingston Hydro Specific Risk Assessment by Area**

<b>Strategic Risks</b>	<b>Impact</b>	<b>Likelihood</b>	<b>Scoring</b>
Loss of distribution license	Very High	Low	10
Regulatory changes that can not be readily met	Very High	Moderate	15
Local Distribution Company consolidation	Moderate	Moderate	9
Expansion of Kingston Hydro Territory	Very High	Low	10
Competition to core business	Moderate	Moderate	9
<b>Operation Risks</b>	<b>Impact</b>	<b>Likelihood</b>	<b>Scoring</b>
Compliance with Affiliate Relation Code	Very High	High	20
Compliance with applicable codes	High	High	16
Reliability of local supply – damage to customer	High	Moderate	12
Reliability of grid supply – inability to provide service due to long duration failure	Very High	Moderate	15
Infrastructure impacted due to severe weather,	High	Moderate	12

vandalism or terrorism			
Public personal and property safety is paramount	Very High	Low	10
Equipment obsolescence – inability to obtain equipment (i.e. 5 kV system)	High	Low	4
<b>People &amp; Culture Risks</b>	<b>Impact</b>	<b>Likelihood</b>	<b>Scoring</b>
Reputation with customers and shareholder	High	Low	8
Fraudulent activities without checks and balances	Moderate	High	12
<b>Financial Risks</b>	<b>Impact</b>	<b>Likelihood</b>	<b>Scoring</b>
Filing and approval of rate application	High	High	16
Financial rating and impact to cost of borrowing	Moderate	Moderate	9
Local economic changes affecting growth and customers' ability to pay	Moderate	Moderate	9
Loss of customers or nonpayment of accounts	Moderate	Low	6
Third party reporting that are regularly audited	High	Moderate	12
Business effectiveness as benchmarked against other Local Distribution Companies	Moderate	Moderate	9
Third party capital availability or calling in loans	High	Low	8
Necessary capital for expansion	High	Moderate	12
Necessary cash flow	Moderate	Moderate	9
<b>Knowledge Risks</b>	<b>Impact</b>	<b>Likelihood</b>	<b>Scoring</b>
Board of Directors turnover	Moderate	High	12
Succession planning for Officers	Moderate	High	12
Technology changes rendering services unnecessary	Very High	Low	10
<b>Environment Risks</b>	<b>Impact</b>	<b>Likelihood</b>	<b>Scoring</b>
Release due to equipment or employee failure	High	Moderate	12

In order to prioritize the efforts in the next phase of the work and to undertake the detailed risk management, consisting of identification of mitigation measures and additional controls, the specific risks from Table 1 have been ordered. Following in Table 2, are the specific risks ranked by their risk score from highest to lowest.

Using the Risk Tolerance Matrix, from Appendix A, these scores have also been highlighted by their relative ranking, being High – Red, Moderate – Yellow and Low – Green.

**Table 2**  
**Kingston Hydro Specific Risk Assessment by Scoring**

<b>Risk</b>	<b>Scoring</b>
Compliance with Affiliate Relation Code	20
Compliance with applicable codes	16
Filing and approval of rate application	16
Regulatory changes that can not be readily met	15
Reliability of grid supply – inability to provide service due to long duration failure	15
Reliability of local supply – damage to customer	12
Infrastructure impacted due to severe weather, vandalism or terrorism	12
Fraudulent activities without checks and balances	12
Third party reporting that are regularly audited	12
Necessary capital for expansion	12
Board of Directors turnover	12
Succession planning for Officers	12
Release due to equipment or employee failure	12
Technology changes rendering services unnecessary	10
Public personal and property safety is paramount	10
Loss of distribution license	10
Expansion of Kingston Hydro Territory	10
Competition to core business	9
Local Distribution Company consolidation	9
Financial rating and impact to cost of borrowing	9
Local economic changes affecting growth and customers' ability to pay	9
Business effectiveness as benchmarked against other Local Distribution Companies	9
Necessary cash flow	9
Reputation with customers and shareholder	8
Third party capital availability or calling in loans	8
Loss of customers or nonpayment of accounts	6
Equipment obsolescence – inability to obtain equipment (i.e. 5 kV system)	4

## Appendices

### Appendix A – Risk Tolerance Matrix

#### Risk Assessment Process

			Risk Scoring / Tolerance				
Likelihood	Very High	5	5	10	15	20	25
	High	4	4	8	12	16	20
	Moderate	3	3	6	9	12	15
	Low	2	2	4	6	8	10
	Negligible	1	1	2	3	4	5
			1	2	3	4	5
			Negligible	Low	Moderate	High	Very High
			Impact				

Response to School Energy Coalition  
Interrogatory 1-SEC-10

Attachment 3

**Kingston Hydro Corporation**  
**Balance sheet**

	Pro-Forma 31-Dec 2014	Pro-Forma 31-Dec 2015	Pro-Forma 31-Dec 2016	Pro-Forma 31-Dec 2017	Pro-Forma 31-Dec 2018	Pro-Forma 31-Dec 2019	Pro-Forma 31-Dec 2020	Pro-Forma 31-Dec 2021	Pro-Forma 31-Dec 2022	Pro-Forma 31-Dec 2023
<b>Assets</b>										
Current assets:										
Cash	14,565	14,565	14,565	14,565	14,565	14,565	14,565	14,565	14,565	14,565
Due from City of Kingston	2,560,200	2,857,644	2,999,241	3,312,551	3,534,773	3,620,018	3,692,974	3,889,643	4,096,509	4,148,640
Accounts and billed receivables	7,171,821	7,530,412	7,793,977	8,066,766	8,349,103	8,641,321	8,857,354	9,078,788	9,305,758	9,631,459
Income taxes receivable	-	-	-	-	-	-	-	-	-	-
Unbilled revenue	8,000,000	8,000,000	8,280,000	8,569,800	8,869,743	9,180,184	9,409,589	9,644,931	9,886,054	10,232,066
Inventory	1,650,000	1,650,000	1,707,750	1,767,521	1,829,364	1,893,413	1,940,748	1,989,267	2,038,999	2,110,364
Prepaid expense	175,000	175,000	181,125	187,464	194,026	200,817	205,837	210,983	216,257	223,826
	19,571,586	20,227,621	20,976,658	21,918,668	22,791,594	23,550,317	24,121,167	24,828,177	25,558,142	26,360,921
<b>Regulatory Assets</b>										
Incremental Capital Projects	1,840,000	1,740,000	0	0	0	0	0	0	0	0
Post Market Variances	6,000,000	5,000,000	4,000,000	3,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Smart Meters	1,985,000	1,985,000	1,985,000	1,985,000	1,985,000	1,985,000	1,985,000	1,985,000	1,985,000	1,985,000
	9,825,000	8,725,000	5,985,000	4,985,000	3,985,000	3,985,000	3,985,000	3,985,000	3,985,000	3,985,000
<b>Capital assets:</b>										
Cost	67,479,939	71,179,939	76,919,939	80,919,939	85,119,939	89,319,939	93,519,939	97,319,939	101,119,939	104,919,939
Accumulated depreciation	-27,956,383	-29,658,383	-31,458,383	-33,358,383	-35,358,383	-37,458,383	-39,658,383	-41,958,383	-44,358,383	-46,858,383
	39,521,556	41,521,556	45,461,556	47,561,556	49,761,556	51,861,556	53,861,556	55,361,556	56,761,556	58,061,556
<b>Future Tax Asset</b>										
	1,808,510	1,808,510	1,808,510	1,808,510	1,808,510	1,808,510	1,808,510	1,808,510	1,808,510	1,808,510
<b>Total assets</b>	<b>70,726,652</b>	<b>72,282,687</b>	<b>74,231,724</b>	<b>76,273,734</b>	<b>78,346,660</b>	<b>81,205,383</b>	<b>83,776,233</b>	<b>85,983,243</b>	<b>88,113,208</b>	<b>90,215,987</b>
<b>Liabilities and Shareholder's Equity</b>										
Current liabilities:										
Bank loan, TD	669,380	741,537	808,425	914,287	809,221	700,374	765,250	829,564	893,267	960,327
Accounts payable & accruals	7,700,000	7,700,000	7,969,500	8,248,433	8,537,128	8,835,927	9,056,825	9,283,246	9,515,327	9,848,364
Due to City of Kingston	0	0	0	0	0	0	0	0	0	0
Short Term Financing re: ICM	3,000,000	3,000,000	0	0	0	0	0	0	0	0
Short Term Financing re: Variances	6,000,000	5,000,000	4,000,000	3,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
PLS Payable										
Long -term debt										
Note payable to City of Kingston	10,880,619	10,880,619	10,880,619	10,880,619	10,880,619	10,880,619	10,880,619	10,880,619	10,880,619	10,880,619
Capital Loan - TD Bank - 2004/2009 Cape:	1,162,328	843,595	514,347	174,239	0	2,530,951	2,338,097	2,138,881	1,933,093	1,720,517
Capital Loan - TD Bank - Smart Meters	3,406,679	3,242,714	3,073,340	2,896,379	2,717,646	2,530,951	2,338,097	2,138,881	1,933,093	1,720,517
Capital Loan - TD Bank - 2009/2010 Cape:	1,917,242	1,823,898	1,727,686	1,628,518	1,526,304	1,420,948	1,312,356	1,209,885	1,094,808	976,195
Capital Loan - TD Bank - 2011 Capex										
Capital Loan - 2012 Capex	3,301,462	3,230,084	3,155,936	3,078,913	2,998,902	2,915,787	2,829,448	2,739,760	2,646,593	2,549,812
Capital Loan - 2013 Capex	2,416,198	2,371,448	2,324,685	2,275,817	2,224,749	2,171,384	2,115,618	2,057,342	1,996,443	1,932,804
Capital Loan - 2014 Capex	3,000,000	2,903,505	2,851,793	2,797,625	2,740,883	2,681,447	2,619,187	2,553,970	2,485,656	2,414,096
Capital Loan - 2015 Capex		2,700,000	2,620,105	2,576,985	2,531,601	2,483,834	2,433,560	2,380,646	2,324,954	2,266,338
Capital Loan - 2016 Capex			5,500,000	5,350,442	5,269,153	5,183,190	5,092,284	4,996,151	4,894,490	4,786,984
Capital Loan - 2017 Capex			2,727,041	2,800,000	2,824,435	2,867,247	2,845,064	2,800,351	2,552,955	2,502,716
Capital Loan - 2018 Capex					2,900,000	2,783,220	2,693,531	2,693,531	2,693,531	2,644,132
Capital Loan - 2019 Capex						2,824,435	2,783,220	2,739,531	2,693,531	2,644,132
Capital Loan - 2020 Capex						2,600,000	2,532,252	2,495,300	2,456,131	2,414,612
Capital Loan - 2021 Capex							2,300,000	2,240,069	2,207,381	2,172,731
Capital Loan - 2022 Capex								2,000,000	1,947,886	1,919,462
Capital Loan - 2023 Capex									2,000,000	1,950,000
Capital Loan - 2024 Capex										
Regulatory liabilities	1,547,582	1,547,582	1,547,582	1,547,582	1,547,582	1,547,582	1,547,582	1,547,582	1,547,582	1,547,582
Employee future benefits	984,635	984,635	984,635	984,635	984,635	984,635	984,635	984,635	984,635	984,635
<b>Total liabilities</b>	<b>45,986,126</b>	<b>46,969,617</b>	<b>47,958,654</b>	<b>49,156,472</b>	<b>50,395,463</b>	<b>52,448,360</b>	<b>54,235,997</b>	<b>55,677,533</b>	<b>57,055,043</b>	<b>58,419,814</b>
<b>Shareholder's equity</b>										
Common shares	12,380,617	12,380,618	12,380,619	12,380,620	12,380,621	12,380,622	12,380,623	12,380,624	12,380,625	12,380,626
Contributed Surplus	3,893,103	3,893,103	3,893,103	3,893,103	3,893,103	3,893,103	3,893,103	3,893,103	3,893,103	3,893,103
Retained earnings	9,207,806	9,806,015	10,808,624	11,690,286	12,581,236	13,402,829	14,220,804	15,020,254	15,806,107	16,576,872
less Dividends paid	-741,000	-766,666	-809,277	-846,747	-883,763	-919,531	-954,295	-988,271	-1,021,670	-1,054,428
	24,740,526	25,313,070	26,273,070	27,117,262	27,951,197	28,757,023	29,540,235	30,305,710	31,058,165	31,796,173
<b>Total equity</b>	<b>24,740,526</b>	<b>25,313,070</b>	<b>26,273,070</b>	<b>27,117,262</b>	<b>27,951,197</b>	<b>28,757,023</b>	<b>29,540,235</b>	<b>30,305,710</b>	<b>31,058,165</b>	<b>31,796,173</b>
<b>Total Liabilities and Shareholder's Equity</b>	<b>70,726,652</b>	<b>72,282,687</b>	<b>74,231,724</b>	<b>76,273,734</b>	<b>78,346,660</b>	<b>81,205,383</b>	<b>83,776,233</b>	<b>85,983,243</b>	<b>88,113,208</b>	<b>90,215,987</b>

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**EXHIBIT 1 - ADMINISTRATION****Response to School Energy Coalition Interrogatory 1-SEC-11****Ex. 1/2/1, Attach. 2****Interrogatory:**

With respect to the Utilities Kingston 2013-2022 plan:

- a) p. 17. Please explain why fuel-switching from electricity to gas results in “increased revenue generation for the organization”.
- b) p. 20. Please provide the “asset management plans for the ...gas, water, wastewater and fibre utilities”.
- c) p. 22. Please provide the “plan to foster innovation”.

**Response:**

- a) Kingston Hydro is not responsible for the strategic plan of Utilities Kingston. However, Kingston Hydro is aware and supportive of the strategy outlined as item a. above.

Fuel switching from electricity to natural gas has been a longstanding trend. Typically the conversion from electricity to natural gas provides customers with a more affordable energy solution. In addition, while not recognized for the purpose of IESO CDM funding, conversion of appliances from electricity to natural gas

- 
- 29        does assist Kingston Hydro customers in reducing their loads on the distribution  
30        system in line with the province's expectations for electricity Conservation &  
31        Demand Management.  
32
- 33    b)    Kingston Hydro is of the view that the information that has been requested in part  
34        b is not relevant to this application.  
35
- 36    c)    The information requested in part c pertains to Utilities Kingston.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-12**

4  
5 **Ex. 1/2/2, p. 6**

6  
7 **Interrogatory:**

8  
9 Please confirm that, without the savings from the shared services model, the Applicant  
10 believes that its 2014 OM&A per customer would have been almost \$300, and would  
11 have been 17th out of the 24 comparator distributors listed in question 1-SEC-1, and  
12 would have been more than 15% above the 2014 industry average (excluding Toronto  
13 Hydro and Hydro One).

14  
15 **Response:**

16  
17 The Applicant has provided the information to illustrate the benefits to customers  
18 derived from our multi-utility model. As the report notes, there are assumptions used,  
19 however Kingston Hydro does believe that the OM&A per customer would be close to  
20 \$300 without those savings detailed.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-13**

4  
5 **Ex. 1/3/1, p. 13**

6  
7 **Interrogatory:**

8  
9 Please confirm that the Applicant serves 41 elementary and secondary schools. Please  
10 confirm that, under this Application, the Applicant is proposing to increase their annual  
11 distribution bill (monthly charge plus volumetric rate) from about \$225,000 to about  
12 \$275,000 over five years, an increase of about 22% or \$50,000 per year.

13  
14 **Response:**

15  
16 We confirm that there are 41 elementary and secondary schools in the Kingston Hydro  
17 distribution area. In addition, Kingston Hydro supplies the Head Office of the Limestone  
18 District School Board.

19  
20 These customers are all either General Service < 50 kW and General Service > 50 kW.  
21 The anticipated rate impacts for these customers are included in the application at  
22 Exhibit 8 Tab 4 Schedule 3.

23  
24 Without reviewing the billing history of each of these 42 customers it is difficult to project  
25 an incremental increase. Actual bill impacts will of course be determined by the actual  
26 consumption of these customers. Kingston Hydro is ready to assist these and all  
27 customers with conservation and demand management.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-14**

4  
5 **Ex. 1/5/1, Attach. 4 p. 1 and 19**

6  
7 **Interrogatory:**

8  
9 Please provide a table showing the monthly average, high, and low balances Due from  
10 the City of Kingston for each month in 2014. In the same table, for each month please  
11 provide the average, high and low balances owing by the Applicant to the City of  
12 Kingston. Please provide a full calculation of the interest paid by the City of Kingston on  
13 the amounts Due from City of Kingston in 2014, and a full calculation of the interest paid  
14 by the Applicant on the amounts owing to the City of Kingston.

15  
16 **Response:**

17  
18 Please find the tables below as requested.

19  
20 Kingston Hydro's interest income from its balance due from the City is calculated  
21 quarterly based on the average of the opening balance for the quarter and the closing  
22 balance for the quarter and multiplying by the interest rate of prime minus 1.65%.

23  
24 Kingston Hydro pays interest on its long term loan payable to the City on a monthly  
25 basis.

Monthly balances- City of Kingston			
2014	Average	Highest	Lowest
January	5,102,919	6,755,501	2,021,420
February	5,140,308	7,429,390	2,943,778
March	2,703,226	5,058,296	(78,670)
April	186,813	3,348,067	(4,374,521)
May	(985,239)	255,194	(2,363,396)
June	1,339,312	4,832,587	(1,330,054)
July	4,607,978	6,751,917	1,173,941
August	4,882,815	7,473,448	1,779,614
September	2,420,976	4,428,122	2,299,730
October	4,272,928	6,258,813	455,081
November	3,142,628	6,168,413	983,545
December	4,581,576	7,592,234	2,275,817
Interest Receivable from City of Kingston			
2014	Average balance	Interest Rate	Interest Revenue
Q1	5,467,852	0.0135	18,454
Q2	3,817,481	0.0135	12,884
Q3	4,424,000	0.0135	14,931
Q4	5,178,370	0.0135	17,477
Total Interest Received			63,746

Interest Payable to City of Kingston		
Loan Amount	10,880,619	
	Interest	Interest Payable to City of Kingston
January	0.0587	53,224
February	0.0587	53,224
March	0.0587	53,224
April	0.0587	53,224
May	0.0587	53,224
June	0.0587	53,224
July	0.0587	53,224
August	0.0587	53,224
September	0.0587	53,224
October	0.0587	53,224
November	0.0587	53,224
December	0.0587	53,224
Total Interest Paid		638,692

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition 1-SEC-15**

4  
5 **Ex. 1/7/17, p. 1**

6  
7 **Interrogatory:**

8  
9 Please provide the Shareholder Agreement for Utilities Kingston.

10  
11 **Response:**

12  
13 Kingston Hydro is of the view that the information that has been requested is not  
14 relevant to this application.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to School Energy Coalition Interrogatory 1-SEC-16**

4  
5 **Ex. 1/7/17, Attach. 2, s. 3.0(b)**

6  
7 **Interrogatory:**

8  
9 Please provide the most recent “annual capital and operating financial plan” approved  
10 by the Applicant pursuant to this agreement.

11  
12 **Response:**

13  
14 The most recent annual capital and operating financial plan approved by the  
15 Applicant is provided.

# Response to School Energy Coalition Interrogatory 1-SEC-16

## Attachment 1

**Kingston Hydro Corporation**  
**Balance sheet**

	<b>Audited 31-Dec 2013</b>	<b>Pro-Forma 31-Dec 2014</b>	<b>Pro-Forma 31-Dec 2015</b>
Assets	58.71%	58.54%	59.62%
Current assets:			
Cash	11,766	14,565	14,565
Due from City of Kingston	5,714,669	3,558,966	3,434,882
Accounts and billed receivables	6,218,491	6,529,416	6,855,886
Income taxes receivable	70,662	-	-
Unbilled revenue	8,413,472	8,500,000	8,500,000
Inventory	1,584,441	1,650,000	1,650,000
Future Tax Asset	0	0	0
Prepaid expense	180,850	185,000	185,000
	<u>22,194,351</u>	<u>20,437,947</u>	<u>20,640,333</u>
Regulatory Assets			
Incremental Capital Projects	2,417,376	2,205,456	2,105,456
Post Market Variances	5,825,623	5,877,098	5,877,098
Smart Meters	1,983,732	1,985,000	1,985,000
	<u>10,226,731</u>	<u>10,067,554</u>	<u>9,967,554</u>
Capital assets:			
Cost	61,745,060	65,345,060	68,945,060
Accumulated depreciation	(23,486,242)	(25,086,242)	(26,760,242)
	<u>38,258,818</u>	<u>40,258,818</u>	<u>42,184,818</u>
Derivative Asset	90,678	90,678	90,678
Future Tax Asset	1,195,152	1,195,152	1,195,152
<b>Total assets</b>	<b>71,965,730</b>	<b>72,050,149</b>	<b>74,078,535</b>
Liabilities and Shareholder's Equity			
Current liabilities			
Bank loan, TD	652,155	674,938	728,912
Accounts payable & accruals	9,737,992	9,737,992	9,737,992
Due to City of Kingston	0	0	0
Short Term Financing re: ICM	3,000,000	3,000,000	2,500,000
Short Term Financing re: Variances	8,000,000	7,100,000	7,467,554
PILS Payable			
Long --term debt			
Note payable to City of Kingston	10,880,619	10,880,619	10,880,619
<b>Capital Loan - TD Bank - 2004/2009 Capex</b>	1,445,550	1,136,160	816,564
<b>Capital Loan - TD Bank - Smart Meters</b>	3,565,408	3,406,679	3,242,714
<b>Capital Loan - TD Bank - 2009/2010 Capex</b>	2,007,804	1,917,242	1,823,898
<b>Capital Loan - TD Bank - 2011 Capex</b>			
<b>Capital Loan - 2012 Capex</b>	3,371,832	3,303,919	3,233,317
<b>Capital Loan - 2013 Capex</b>	2,454,204	2,405,050	2,354,901
<b>Capital Loan - 2014 Capex</b>		1,500,000	1,438,471
<b>Capital Loan - 2015 Capex</b>			2,700,000
<b>Capital Loan - 2016 Capex</b>			
<b>Capital Loan - 2017 Capex</b>			
<b>Capital Loan - 2018 Capex</b>			
Capital Loan - 2019 Capex			
Capital Loan - 2020 Capex			
Capital Loan - 2021 Capex			
Capital Loan - 2022 Capex			
Capital Loan - 2023 Capex			
Capital Loan - 2024 Capex			
Regulatory liabilities	915,221	915,221	915,221
Employee future benefits	1,056,346	1,056,346	1,056,346
<b>Total liabilities</b>	<b>47,087,130</b>	<b>47,034,166</b>	<b>48,896,510</b>
Shareholder's equity			
Common shares	12,380,617	12,380,617	12,380,618
Contributed Surplus	3,893,103	3,893,103	3,893,103
Retained earnings	9,254,880	9,483,262	9,669,304
less Dividends paid	(650,000)	(741,000)	(761,000)
<b>Total equity</b>	<b>24,878,600</b>	<b>25,015,982</b>	<b>25,182,025</b>
<b>Total Liabilities and Shareholder's Equity</b>	<b>71,965,730</b>	<b>72,050,149</b>	<b>74,078,535</b>

**Kingston Hydro Corporation**  
**Statement of Earnings**

<b>Year ended</b>	<b>Audited 2013</b>	<b>Forecast 2014</b>	<b>Forecast 2015</b>
Sale of power	\$ 72,678,286	\$ 74,858,635	\$ 85,000,000
Cost of power	72,678,286	74,858,635	85,000,000
	7.7%	-11.2%	3.5%
Local distribution revenue	12,071,921	10,715,760	11,093,555
Other revenue:	598,240	550,000	500,000
	12,670,161	11,265,760	11,593,555
	8.429%	2.761%	<b>3.000%</b>
Operating expenses:			
Contracted services	6,821,816	7,200,000	7,416,000
Smart Meter OPEX	184,749		
Special Purpose Charge	-		
Total	7,006,565	7,200,000	7,416,000
Earnings before interest, depreciation and taxes	5,663,596	4,065,760	4,177,555
Interest on bank loans	550,328	641,666	607,857
Interest on long term debt - City of Kingston	638,692	638,692	638,692
Interest on Smart Meters	127,906		
Depreciation and amortization - Smart Meters	818,462		
Depreciation and amortization	1,438,746	1,600,000	1,674,000
	3,574,134	2,880,359	2,920,549
Net earnings before Incomes taxes	2,089,462	1,185,401	1,257,006
Income tax - Future	(19,003)		
Income tax - Current	348,703	307,019	329,964
	329,700	307,019	329,964
Change in Fair Value of Cash Flow Hedge	90,678		
Net earnings	\$ 1,850,440	\$ 878,382	\$ 927,042

**Kingston Hydro Corporation**  
**Statement of Cash Flows**

	Audited	Forecast	Forecast
Year Ended December 31	2013	2014	2015
Operations			
Net earnings	\$1,759,762	\$878,382	\$927,042
Items not involving cash			
Future Income Taxes	(\$19,003)	\$0	\$0
Depreciation and amortization	2,257,208	1,600,000	1,674,000
	3,997,967	2,478,382	2,601,042
Change in non-cash operating working capital			
Due from City of Kingston	(1,907,819)	2,155,703	124,084
Accounts receivables	(335,683)	(310,925)	(326,471)
Income taxes receivable	(113,930)	70,662	0
Unbilled revenue	(1,039,261)	(86,528)	0
Post Market Variances	(977,226)	(51,475)	0
Inventory	(214,471)	(65,559)	0
Prepaid expenses	(20,316)	(4,150)	0
Regulatory assets	3,995,047	(1,268)	0
ICM Projects	(325,113)	211,920	100,000
Accounts payable & accruals	1,058,159	0	0
Change in regulatory liabilities	0	0	0
Employee future benefits	71,711	0	0
Change in non-cash operating working capital	191,098	1,918,381	(102,386)
Net change in cash from operations	4,189,065	4,396,763	2,498,656
Financing			
Note receivable from Utilities Kingston			
Contributed capital			
Bank loan, operating	62,159	22,783	53,974
Short Term Financing - ICM	0	0	(500,000)
Short Term Financing - Post Market Variances	3,000,000	(900,000)	367,554
Capital Loan - TD Bank - 2009 Capex	(87,862)	(90,561)	(93,344)
Capital Loan - TD Bank 2008 CAPEX	(299,509)	(309,390)	(319,596)
Smart Meter Loan	(153,660)	(158,729)	(163,965)
Capital Loan - TD Bank - 2010 Capital	0	0	0
Capital Loan -2012	(62,110)	(67,913)	(70,602)
Capital Loan -2013	2,454,203	(49,154)	(50,149)
Capital Loan -2014		1,500,000	(61,529)
Capital Loan -2015			2,700,000
Capital Loan -2016			
Capital Loan -2017			
Capital Loan -2018			
Capital Loan -2019			
Capital Loan -2020			
Capital Loan -2021			
Capital Loan -2022			
Capital Loan -2023			
Dividends paid	(650,000)	(741,000)	(761,000)
Net change in cash from financing	4,263,221	(793,964)	1,101,343
Investments			
Purchase of capital assets	(8,448,135)	(3,600,000)	(3,600,000)
Incorporation costs			
Investment in Utilities Kingston	0	0	0
Change in Transition expenses			
Net change in cash from investments	(8,448,135)	(3,600,000)	(3,600,000)
Change in cash and cash equivalents	4,151	2,799	(1)
Cash & cash equivalents, beginning of year	7,615	11,766	14,565
Cash & cash equivalents, end of year	11,766	14,565	14,564

Electric - 2015 Capital Plan		Budget 2015
<b>Substations</b>		
	Planning & Design	\$ 150,000
	Construction	\$ 30,000
	Equipment Upgrades/Replacement	
	Structure/Land	
	Electrical Equipment	\$ 250,000
	<b>Total</b>	<b>\$ 430,000</b>
<b>Vaults</b>		
	Planning & Design	
	Construction	
	Equipment Upgrades/Replacement	
	Structural Improvements & Restoration	\$ 470,000
	Electrical Equipment	\$ 385,000
	<b>Total</b>	<b>\$ 855,000</b>
<b>44kV Line Upgrades</b>		
	Planning & Design	
	Construction	
	Equipment Upgrades/Replacement	
	Poles	
	Conductors	
	Switches	
	Terminations	
	<b>Total</b>	<b>\$ -</b>
<b>44kV Cable Upgrades</b>		
	Planning & Design	
	Construction	
	Equipment Upgrades/Replacement	
	Manholes	
	Hand holes	
	Cables	\$ 135,000
	Splices/Terminations	
	Duct Structure	
	<b>Total</b>	<b>\$ 135,000</b>
<b>5kV &amp; 2.4kV Line Upgrades &amp; Voltage Conversion</b>		
	Planning & Design	
	Construction	
	Equipment Upgrades/Replacement	
	Poles	1012000
	Conductors	\$ 45,000
	Switches	\$ 100,000
	Terminations	
	<b>Total</b>	<b>\$ 1,157,000</b>
<b>5kV &amp; 2.4kV Cable Upgrades</b>		
	Planning & Design	
	Construction	
	Equipment Upgrades/Replacement	
	Manholes	
	Hand holes	
	Cables	\$ 140,000
	Splices/Terminations	
	Duct Structure	\$ 330,000
	<b>Total</b>	<b>\$ 470,000</b>
<b>Secondary Services</b>		
	Overhead & Underground	\$ 60,000
	<b>Total</b>	<b>\$ 60,000</b>
<b>General</b>		
	Property	
	Land - Gas Facilities	
	JCB Building Improvements	
	Business Systems	
	SCADA	\$ 20,000
	Computer Hardware & Software	\$ 23,000
	Records Management	
	Business Systems	
	Meters	\$ 300,000
	Construction and Office Equipment	
	Tools, Locating Equipment & Radios	\$ 80,000
	Office Equipment	\$ 1,000
	<b>Total</b>	<b>\$ 424,000</b>
	Vehicles	
	Upgrades	
	Replacement	\$ 69,000
	<b>Total</b>	<b>\$ 69,000</b>
<b>Total Expenses</b>		<b>\$ 3,600,000</b>

1 **EXHIBIT 1 – ADMINISTRATION**

2  
3 **Response to Sustainable Infrastructure Alliance of Ontario Interrogatory 1-SIA-1**

4  
5 **Ref: Exhibit 1, Tab 2, Schedule 1, page 12**

6  
7 **Interrogatory:**

8  
9 Kingston Hydro notes that “At the time of preparing this rate submission, the  
10 expansion of the Utilities Kingston service delivery model to all utility customers within  
11 the City of Kingston remains one of the key strategic goals for the City, Kingston Hydro  
12 and Utilities Kingston.”

13  
14 To what extent is Kingston Hydro actively pursuing acquiring control of the remainder  
15 of the service territory within the city boundaries? Without disclosing any confidential  
16 details, please detail any steps Kingston Hydro has taken or intends to take in order to  
17 achieve this objective.

18  
19 **Response:**

20  
21 With the municipal amalgamation of Kingston and surrounding townships effective  
22 January 1, 1998, the new City of Kingston initiated steps under the *Power*  
23 *Corporations Act* to acquire the assets of then Ontario Hydro. Kingston had its  
24 necessary by-law in progress when the *Energy Competition Act* was introduced in  
25 June of 1998. This legislation effectively eliminated any further ability to acquire the  
26 assets under the *Power Corporations Act*.

28 Since that time, Kingston Hydro (and the City of Kingston) have actively pursued  
29 acquiring the service territory within the municipal boundaries owned and operated by  
30 Hydro One.

31  
32 This has involved several meetings or discussions with Hydro One (originally with  
33 Ontario Hydro) staff, and staff at the Ministry of Energy and the Minister.

34  
35 The most recent activities include but are not limited to the following:

- 36
- 37 • Meeting with the Minister and staff with the Mayor of the City of Kingston, the  
38 CAO, and our local MPP in the spring of 2014
  - 39
  - 40 • Meeting with the Minister and staff with the Mayor of the City of Kingston, and  
41 the CAO at the 2015 AMO conference
  - 42
  - 43 • Active participation in the Electricity Distributors Association Project Greenlight.
  - 44
  - 45 • Continued active participation with a number of LDCs in a consortium to acquire  
46 such assets, currently supported by the EDA
  - 47 • Participation with an LDC in a proposal to the Ed Clarke panel to purchase such  
48 assets
  - 49
  - 50 • Ongoing discussions with an industry consultant investigating opportunities  
51 prior to the Hydro One IPO
  - 52
  - 53 • Discussions with other LDCs investigating a cooperative purchase of such  
54 assets
  - 55

- 
- 56        • Constant monitoring the industry and participating in any activities that might  
57        lead to an opportunity for such acquisition

1 **EXHIBIT 1 – ADMINISTRATION**

2  
3 **Response to Sustainable Infrastructure Alliance of Ontario Interrogatory 1-SIA-2**

4  
5 **Ref: Exhibit 1, Tab 2, Schedule 1, page 24**

6  
7 **Interrogatory:**

8  
9 Kingston Hydro notes that it “continues to pursue all opportunities to increase its  
10 customer base.” Please elaborate on this statement. Other than the acquisition of  
11 additional service territory within the City of Kingston (as noted in Exhibit 1, Tab 2,  
12 Schedule 1, page 12), what other opportunities for growth is Kingston Hydro  
13 referencing?

14  
15 **Response:**

16  
17 As there is very limited opportunity for Greenfield growth (due to the service territory  
18 situation noted), Kingston Hydro looks for other growth opportunities in working with the  
19 shareholder, the City of Kingston, in promoting the development of brownfields  
20 properties and infill opportunities within its distribution territory.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Sustainable Infrastructure Alliance of Ontario Interrogatory 1-SIA-3**

4  
5 **Ref: Exhibit 1, Tab 3, Schedule 1, pages 14 to 16**

6  
7 **Interrogatory:**

8  
9 In this section, Kingston Hydro discusses its proposed CIR rate framework, identifying  
10 2016 as a standard rebasing year, with rates for 2017-2020 to incorporate elements that  
11 would be subject to annual adjustment. Please elaborate on the proposed mechanics of  
12 rate setting over 2017-2020. Specifically, is Kingston Hydro planning to file updated  
13 Draft Rate Orders for OEB approval in each year, incorporating values approved in this  
14 proceeding for all the items listed on page 15 (lines 17-24), and making adjustments  
15 only for the six specific elements noted on page 16 (lines 5-15)?

16  
17 **Response:**

18  
19 Please see response to 5-VECC-35.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Vulnerable Energy Consumers Coalition Interrogatory 1-VECC-1**

4  
5 **Reference: E1/T1/S1/pg.14**

6  
7 **Interrogatory:**

8  
9 a) Please identify the comparator utilities used for the purpose of Table 6.

10  
11 **Response:**

12  
13 Kingston Hydro would like to confirm that the reference is Exhibit 1 Tab 2 Schedule 1  
14 p.14.

15  
16 The data that was used to develop Table 6 was drawn from page 10 of the Electricity  
17 Distributor Yearbook for the respective years. In the year 2010, there were 77  
18 distributors that reported. In 2011 there were 75, and in 2012 and 2013 there were 73.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Vulnerable Energy Consumers Coalition Interrogatory 1-VECC-2**

4  
5 **Reference: E1/T3/S1/pg.9**

6  
7 **Interrogatory:**

8  
9 a) Please provide the current year-to-date CPI inflation as reported by Statistics  
10 Canada. Please provide the same for the most recent 12 month period.

11  
12 **Response:**

13  
14 The July, 2014 to July 2015 Ontario CPI as reported by Statistics Canada is 1.5%  
15 (128.4-126.5).

16  
17 For the 7 month period January 1 – July 31, 2015, the consumer price index for Ontario  
18 has increased 2.4% (128.4-125.4).

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **Response to Vulnerable Energy Consumers Coalition Interrogatory 1-VECC-3**

4  
5 **Reference: E1/T4/S1/pg.6**

6  
7 **Interrogatory:**

- 8  
9 a) Please confirm that the Utility Pulse survey was undertaken by Utilities Kingston  
10 and not Kingston Hydro.  
11 b) A number of the survey questions (results) are with respect to common utility  
12 issues. Was there any attempt to differentiate the results by Utility?  
13

14 **Response:**

- 15  
16 a) The UtilityPULSE survey was undertaken by Utilities Kingston on behalf of  
17 Kingston Hydro. The customers that were selected to be contacted were Kingston  
18 Hydro customers. The selected customers may have been receiving other  
19 services from Utilities Kingston, but that was coincidental.  
20  
21 b) The criteria for customer selection included that the customer had to be a  
22 customer of Kingston Hydro. There was no attempt to differentiate this further.

**EXHIBIT 1 - ADMINISTRATION****Response to Vulnerable Energy Consumers Coalition Interrogatory 1-VECC-4****Reference: E1/T4/S1/pg.8****Interrogatory:****Table 1 – Responses (agreed) to questions regarding the multi-utility model**

It is convenient to receive one bill for all utilities	97%
A single source of contact for all utility needs makes life easier	96%
There is a faster restoration of disrupted utility services	72%
There is better co-ordination of infrastructures repairs and upgrade	73%
Move-in or move-out are easy to arrange	78%
One bill for all utilities or one interface through the MyUtilities portal makes it easier to manage and track costs	91%

- a) Table 1 provides a number of responses which are comparative in nature. For example, to understand that a multi-utility model provides faster restoration one would presumably need to understand the restoration times of a single utility (or other alternative) model. Did the respondents have such knowledge? In the absence of comparator information how should the responses to be interpreted? Please explain why the results are still meaningful.

**Response:**

- a) These questions were undertaken to assess the current level of awareness among the sample regarding the multi-utility model, as well as whether customers

---

22       perceived any advantage to the model. The results confirm our understanding that  
23       there is support for the customer services benefits related to one bill for multiple  
24       services, and one single point of contact. The results also provide some insight  
25       regarding future communications, for example to help customers better  
26       understand the benefits in reducing utility-related disruptions.

1 **EXHIBIT 1 - ADMINISTRATION**

2  
3 **1-VECC-5**

4  
5 **Reference: E1/T4/S1/Attachment 2/pg.8 /pg.27**

6  
7 **Interrogatory:**

8  
9 The results at page 8 of the Utility Pulse survey show that 39% of respondents indicated  
10 they had an outage in 2014. What percentage of customers actually experienced an  
11 outage in 2014?

12  
13 **Response:**

14  
15 The survey was completed between April 7 and April 22, 2014. For this question,  
16 customers were asked if they had experienced an outage in the previous twelve  
17 months. Of those sampled, 39% said yes. In the time period April 2013 to April 2014  
18 Kingston Hydro was impacted by the December ice storm which affected an estimated  
19 50% of customers.

20  
21 Although Kingston Hydro does track the reliability indicators SAIDI, SAIFI and CAIDI,  
22 these indicators are not tracked such that the actual percentage of customers who  
23 experienced an outage in 2014 can be provided. That is because the metrics do not  
24 monitor whether each impacted customer was impacted by a single outage or if the  
25 customer was impacted by multiple outages.