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3.0 OPERATING REVENUE

2 3.1 OVERVIEW

- 3 Energy+ Inc. is proposing a total Service Revenue Requirement of \$36,825,314 for the 2019 Test Year.
- This amount includes a Base Revenue Requirement of \$35,170,323 plus revenue offsets of \$1,654,991
- 5 to be recovered through Other Revenue.
- 6 Other Revenue includes Late Payment charges, Specific Service charges, Rent from Electric Property,
- 7 Miscellaneous Service revenues, Standard Supply Service ("SSS") Administrative charges and Interest.

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3.1.1 2014 Board Approved Proxy

- On November 28, 2014, the former Cambridge and North Dumfries Hydro ("CND") acquired all of the shares of the former Brant County Power ("BCP"). On January 1, 2016 the former CND and BCP legally amalgamated to become Energy+ Inc.
- The last Board Approved amounts were established for each of these entities in the following Applications:
 - CND 2014 Rate Rebasing, EB-2013-0116
 - BCP 2011 Rate Rebasing, EB-2010-0125

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- As a result of the acquisition and subsequent amalgamation, and in light of the fact that each of the former utilities had different rate rebasing years, Energy+ has developed 2014 Board Approved Proxy Operating Revenue figures for comparative purposes.
- 21 For purposes of this Exhibit, the 2014 Board Approved Proxy was calculated as the aggregate of:
- Former CND Board Approved Operating Revenue, as approved in EB-2013-0116; and
 - Former BCP Board Approved Operating Revenue for 2011, as approved in EB-2010-0125, inflated for 2012, 2013, 2014 and 2015 utilizing the Board Incentive Regulation Mechanism ("IRM") inflation factors for each of those years.

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3.1.1.1 2014 Board Approved Proxy – Distribution Revenue

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Energy+ proposes to utilize the 2014 Board Approved Proxy for Distribution Revenue as shown in Table 3-1A, below, to facilitate a comparison of Distribution Revenue in a manner consistent with the current Energy+ corporate structure and Board Filing Requirements.

Table 3-1A: 2014 Board Approved Distribution Revenue Proxy Calculation

					Forr	Former BCP 2014 Board Approved Proxy					
						Proxy 2012	Proxy 2013	Proxy 2014			
				_		IRM Factor	IRM Factor	IRM Factor			
USoA Description	Former CND 2014 Board Approved	Former BCP 2014 Board Approved Proxy	Energy+ 2014 Board Approved Proxy		2011 Board Approved	0.68%	0.28%	1.60%			
Residential	13,473,027	3,144,679	16,617,706		3,065,668	3,086,515	3,095,157	3,144,679			
General Service < 50 kW	2,894,872	982,829	3,877,701		958,135	964,650	967,351	982,829			
General Service > 50 to 999 kW	6,454,976	1,440,256	7,895,232		1,404,069	1,413,617	1,417,575	1,440,256			
General Service > 1000 to 4999 kW	1,854,779	-	1,854,779		-	-	1	-			
Large User	1,504,085	-	1,504,085		-	-	-	-			
Street Lights	777,185	264,340	1,041,525		257,698	259,450	260,177	264,340			
Sentinel Lights	-	22,962	22,962		22,385	22,537	22,600	22,962			
Unmetered Loads	53,096	11,020	64,116		10,743	10,816	10,846	11,020			
Embedded Distributor	194,006	-	194,006		-	-	ı	-			
Total	27,206,026	5,866,086	33,072,112		5,718,698	5,757,585	5,773,706	5,866,086			

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3.1.1.2 2014 Board Approved Proxy - Other Revenue

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Table 3-1B below shows the calculation of the 2014 Board Approved Proxy for Other Revenue.

Table 3-1B: 2014 Board Approved Other Revenue Proxy Calculation

		Former BCP 2014 Board Approved Proxy									
								Prox	y 2012	Proxy 2013	Proxy 2014
								IRM	Factor	IRM Factor	IRM Factor
USoA#	USoA Description	201	mer CND 14 Board proved	20	rmer BCP 14 Board pproved Proxy	ergy+ 2014 Board Approved Proxy	2011 Board Approved	0.	68%	0.28%	1.60%
4235	Specific Service Charges		554,855		120,959	675,814	117,920	1	18,722	119,054	120,959
4225	Late Payment Charges		137,500		99,500	237,000	97,000		97,660	97,933	99,500
4082	Retail Services Revenue		36,000		-	36,000	-		-	-	-
4084	Service Tax Requests		960		-	960	-		-	-	-
4086	SSS Administration Revenue		146,868		30,942	177,810	30,165		30,370	30,455	30,942
4210	Rent from Electric Property		211,684		38,542	250,226	37,574		37,830	37,935	38,542
4215	Other Utility Operating Income		-		-	-	-		-	-	-
4220	Other Electric Revenues		-		123,946	123,946	120,832	1	21,654	121,994	123,946
4325	Revenues from Merchandise, Jobbing, Etc.		24,000		-	24,000	-		-	-	-
4355	Gain on Disposition of Utility and Other Property		23,000		-	23,000	-		-	-	-
4360	Loss on Disposition of Utility and Other Property		-		-	-	-		-	-	-
4375	Revenues from Non-Utility Operations		26,400		-	26,400	-		-	-	-
4390	Miscellaneous Non-Operating Income		139,400		8,206	147,606	8,000		8,054	8,077	8,206
4405	Interest and Dividend Income		52,712		44,108	96,820	43,000		43,292	43,414	44,108
Specific	Service Charges	\$	554,855	\$	120,959	\$ 675,814	\$ 117,920	\$ 1	18,722	\$ 119,054	\$ 120,959
Late Pay	ment Charges	\$	137,500	\$	99,500	\$ 237,000	\$ 97,000	\$	97,660	\$ 97,933	\$ 99,500
Other O	Other Operating Revenues			\$	193,431	\$ 588,943	\$ 188,571	\$ 1	.89,853	\$ 190,385	\$ 193,431
Other In	Other Income or Deductions				52,314	\$ 317,826	\$ 51,000	\$	51,347	\$ 51,491	\$ 52,314
Total		\$ 1	1,353,379	\$	466,205	\$ 1,819,584	454,491	4	57,582	458,863	466,205

3.1.2 Presentation of Consolidated Revenue

For comparative purposes, and throughout this Exhibit, the actual results for the 2014 and 2015 years represent the combined actual results for the former CND and BCP. The 2016 through 2019 Test Year figures represent Energy+ Inc.

In order for Energy+ to complete this Application and file on-time for April 27, 2018, the revenue figures presented for the 2017 Year are based on Energy+'s 2017 Forecast for the year, which includes 11 months of actuals. The filing date of April 27, 2018 also precedes the timing of the filing of the RRR Filing, which is due April 30, 2018. Energy+ intends to update the 2017 Forecast for the 2017 Actuals upon completion and filing of the RRR Filing.

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3.1.3 Operating Revenue Summary

Table 3-2 summarizes Energy+ Inc.'s total operating revenue. Revenue for 2014 was determined utilizing the proxy method explained above. The 2019 Test Year is provided on the basis of (i) existing distribution rates; and (ii) proposed distribution rates.

Table 3-2: Summary of Total Operating Revenue (Service Revenue)

	2014 Board	2014 Actual	2015 Actual	2016 Actual	2017 Forecast	2018 Bridge	2019 Test at Existing	2019 Test at Proposed
	Approved						Rates	Rates
Distribution Throughput R								
Residential	16,617,706	16,422,948	16,660,342	16,495,528	16,964,395	17,364,576	17,550,323	19,242,393
General Service < 50 kW	3,877,701	3,926,809	4,171,987	4,059,569	4,081,599	4,098,914	4,151,920	4,342,482
General Service > 50 to								
999 kW	7,895,232	7,634,122	7,544,907	8,246,828	7,791,032	7,665,822	7,653,216	7,526,897
General Service > 1000 to								
4999 kW	1,854,779	1,841,141	1,833,026	1,896,554	1,792,008	2,560,515	2,503,247	2,602,122
Large User	1,504,085	1,244,376	1,228,321	1,173,640	1,288,466	1,044,401	1,042,118	1,089,949
Street Lights	1,041,525	1,000,647	1,069,866	1,042,981	956,389	826,624	758,180	528,827
Sentinel Lights	22,962	17,721	28,319	16,538	14,535	14,573	14,573	20,346
Unmetered Loads	64,116	58,509	56,137	64,700	64,855	64,042	64,042	67,090
Embedded Distributor	194,006	196,448	260,109	281,674	264,331	400,890	400,890	261,791
Transformer Allowance						(511,575)	(511,575)	(511,575)
Other		(24,598)	49,728					
Total	\$33,072,112	\$32,318,123	\$32,902,742	\$33,278,012	\$33,217,611	\$33,528,781	\$33,626,933	\$35,170,323
Other Distribution Revenu	ie							
Specific Service Charges	675,814	751,308	728,545	809,688	768,275	638,145	637,145	637,145
Late Payment Charges	237,000	192,312	188,882	225,148	192,353	189,000	189,000	189,000
Other Operating								
Revenues	588,943	649,545	468,566	634,964	666,388	691,124	724,986	724,986
Other Income or	_				_			
Deductions	317,826	377,194	197,564	357,818	61,984	306,731	103,860	103,860
Total	\$ 1,819,584	\$ 1,970,360	\$ 1,583,557	\$ 2,027,617	\$ 1,689,000	\$ 1,825,000	\$ 1,654,991	\$ 1,654,991
Grand Total	\$34,891,695	\$34,288,483	\$34,486,299	\$35,305,629	\$34,906,611	\$35,353,781	\$35,281,924	\$36,825,314

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3.2 SUMMARY OF LOAD AND CUSTOMER/CONNECTION FORECAST

3.2.1 Load and Revenue Forecasts

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The purpose of this evidence is to present the process used by Energy+ to prepare the weather normalized load and customer/connection forecast used to design the proposed 2019 Test Year distribution rates.

In summary, Energy+ used the same regression analysis methodology approved by the Ontario Energy Board (the "OEB" or "Board") in the 2014 Cost of Service ("COS") application (EB-2013-0116) for the former Cambridge and North Dumfries Hydro Inc. ("CND") which is a predecessor company to Energy+ Inc. The regression analysis has been updated to include actual data to the end of the 2017. The updated regression analysis used most of the same variables as those in the 2014 COS application for the former CND. However, the variables named Ontario Real GDP Monthly % and Employment Kitchener-Waterloo-Barrie (000's) have been eliminated since these variables were statistically insignificant. The variable named Co-generation Facility Flag has been added to reflect the impact of new co-generation facilities added in 2016.

With regards to the overall process of load forecasting, Energy+ Inc. is of the view that conducting a regression analysis on historical electricity purchases to produce an equation that will predict purchases is appropriate. Energy+ has the data for the amount of electricity (in kWh) purchased from the IESO for use by Energy+'s customers. With a regression analysis, these purchases can be related to other monthly explanatory variables such as heating degree days and cooling degree days which occur in the same month. The results of the regression analysis produce an equation that predicts the purchases based on the explanatory variables. This prediction model is then used as the basis to forecast the total level of weather normalized purchases for the Bridge Year and the Test Years, which is converted to billed kWh by rate class. A detailed explanation of the process is provided later in this evidence.

Based on the OEB's approval of this methodology in Energy+'s last COS application along with the OEB's approval of this same method in recent COS applications for other applicants, Energy+ submits the load forecasting methodology is reasonable at this time for the purposes of this Application.

The following provides the material to support the weather normalized load forecast used by Energy+ in this Application.

Table 3-3, Table 3-4 and Table 3-5 below provide a summary of the weather normalized load and customer/connection forecast used in this Application.

Table 3-3: Summary of Load and Customer/Connection Forecast

Year	Billed Actual (GWh)	Growth (GWh)	Billed Weather Normal (GWh)	Growth (GWh)	Customer/ Connection Count	Growth
Billed Energy (GWh) a	nd Customer	Count / Con	nections			
2010	1,700.9		1,693.7		75,797	
2011	1,705.5	4.6	1,699.3	5.6	76,834	1037
2012	1,721.4	16.0	1,710.6	11.3	77,572	738
2013	1,745.5	24.0	1,740.8	30.2	78,132	560
2014	1,730.4	(15.1)	1,745.0	4.2	78,616	484
2015	1,750.2	19.8	1,751.2	6.2	79,179	563
2016	1,676.6	(73.6)	1,654.5	(96.7)	80,076	897
2017	1,596.7	(79.9)	1,607.7	(46.8)	81,094	1018
2018 Bridge	1,613.4	16.7	1,613.4	5.6	81,988	894
2019 Test	1,607.2	(6.2)	1,607.2	(6.2)	82,892	904

In the above Table 3-3, the billed GWh data from 2010 to 2017 reflects actual weather and weather normal conditions in each year. The weather normal values are the actual values adjusted by the weather normal conversion factor outlined in Table 3-12. The weather conversion factor is determined consistent with the approach outlined by the OEB in Appendix 2-IA. For 2018 and 2019, the forecasted billed GWh is on a weather normal basis.

Customer/Connection values are on an average basis and street lights, sentinel lights and unmetered loads are measured as connections.

In the following tables, the historical billed amounts for the Brant and the CND service areas are

provided on an actual and weather normalized basis by rate class using the weather normal conversion factor from Table 3-12. The actual number of customers/connections along with the customer/connection usage on an actual and weather normal basis is also provided for Brant and CND. The actual data for the two service areas is used to determine the actual data for Energy+ Inc. The actual data for Energy+ Inc. is used to determine the Bridge Year and Test Year forecast

for Energy+ Inc. The forecast data is provided below.

Table 3-4: Billed Energy by Rate Class - Brant County

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Street Lights	Sentinel Lights	Unmetered Loads	Embedded Distributor - Brantford Power, BCP	Embedded Distributor - Hydro One #1, BCP	Embedded Distributor - Hydro One #2, BCP	Total
Billed Energy (GWh) -	Actual										
2010	80.2	35.8	60.0	29.5	1.7	0.2	0.5	0.4	13.3	50.3	271.9
2011	81.9	36.2	63.3	29.1	1.7	0.2	0.4	0.4	13.7	51.5	278.4
2012	79.7	35.7	63.7	29.8	1.7	0.2	0.4	0.4	9.9	52.3	273.8
2013	79.9	37.1	66.0	30.9	1.7	0.2	0.4	0.4	13.9	52.1	282.6
2014	81.5	37.6	67.8	30.6	1.7	0.1	0.4	0.3	13.0	51.5	284.6
2015	85.2	35.9	49.5	35.8	1.7	0.1	0.4	0.4	13.8	62.3	285.2
2016	83.4	42.7	68.1	38.7	1.5	0.1	0.4	0.4	13.6	46.1	294.8
2017	79.6	36.8	63.0	34.1	0.8	0.1	0.4	0.3	12.2	43.3	270.6
Billed Energy (GWh) -	Weather No	rmal									
2010	79.9	35.6	59.8	29.4	1.7	0.2	0.5	0.4	13.3	50.0	270.7
2011	81.6	36.0	63.1	29.0	1.7	0.2	0.4	0.4	13.6	51.4	277.4
2011 Board Approved	82.8	40.4	62.8	28.9	1.8	0.2	0.5	0.4	13.6	51.1	282.5
2012	79.2	35.5	63.3	29.6	1.7	0.2	0.4	0.4	9.8	52.0	272.0
2013	79.7	37.0	65.8	30.9	1.7	0.2	0.4	0.4	13.8	52.0	281.9
2014	82.2	37.9	68.4	30.9	1.7	0.1	0.4	0.3	13.1	51.9	287.0
2015	85.3	36.0	49.5	35.8	1.7	0.1	0.4	0.4	13.8	62.4	285.4
2016	82.3	42.1	67.2	38.2	1.4	0.1	0.4	0.4	13.4	45.4	290.9
2017	80.2	37.0	63.4	34.4	0.8	0.1	0.4	0.4	12.3	43.6	216.6

Table 3-5: Number of Customers/Connections and Annual Normalized Usage by Rate Class - Brant County

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Street Lights	Sentinel Lights	Unmetered Loads	Embedded Distributor - Brantford Power, BCP	Embedded Distributor - Hydro One #1, BCP	Embedded Distributor - Hydro One #2, BCP	Total
Number of Customers,	/Connections	S		,	,		,				
2010	8,133	1,289	95	5	2,640	219	51	1	1	4	12,439
2011	8,239	1,303	99	5	2,640	189	50	1	1	4	12,531
2011 Board Approved	8,335	1,338	101	5	2,630	218	51	1	1	4	12,684
2012	8,350	1,319	102	5	2,640	177	48	1	1	4	12,648
2013	8,432	1,308	104	5	2,640	191	48	1	1	4	12,733
2014	8,520	1,298	106	5	2,640	189	49	1	1	4	12,812
2015	8,600	1,298	112	6	2,640	189	49	1	1	4	12,899
2016	8,731	1,320	113	6	2,784	181	48	1	1	4	13,188
2017	8,896	1,339	108	6	2,930	168	47	1	1	4	13,499
Actual Annual Energy L	Jsage per Cu	stomer/Conr	ection (kWh	per custome	r/connection	1)					
2010	9,863	27,733	634,412	5,908,334	648	800	9,337	373,339	13,348,829	12,563,307	
2011	9,941	27,764	640,006	5,816,951	648	867	8,827	373,339	13,695,350	12,886,943	
2012	9,540	27,060	621,897	5,955,656	650	1,009	9,219	374,823	9,863,707	13,079,740	
2013	9,480	28,376	634,530	6,188,271	643	802	9,307	356,273	13,883,197	13,029,275	
2014	9,572	28,977	639,448	6,119,124	648	777	9,022	338,022	12,996,387	12,871,435	
2015	9,908	27,704	441,858	6,510,077	643	756	8,981	352,068	13,819,342	15,584,864	
2016	9,549	32,342	602,522	6,446,269	525	755	8,764	380,114	13,560,292	11,512,572	
2017	8,949	27,449	585,719	5,690,048	256	756	8,897	347,757	12,191,720	10,818,530	
Normalized Annual En	ergy Usage p	er Customer,	/Connection	kWh per cus	tomer/conne	ection)					
2010	9,821	27,616	631,735	5,883,398	645	796	9,298	371,763	13,292,491	12,510,284	
2011	9,905	27,663	637,669	5,795,713	645	864	8,794	371,976	13,645,346	12,839,892	
2011 Board Approved	9,934	30,194	622,136	5,771,685	684	917	9,804	370,434	13,588,775	12,786,659	
2012	9,480	26,889	617,975	5,918,102	645	1,002	9,161	372,459	9,801,509	12,997,264	
2013	9,454	28,300	632,821	6,171,607	641	800	9,282	355,314	13,845,814	12,994,191	
2014	9,652	29,220	644,822	6,170,551	653	784	9,098	340,863	13,105,613	12,979,611	
2015	9,914	27,721	442,119	6,513,921	643	756	8,986	352,276	13,827,503	15,594,068	
2016	9,423	31,915	594,576	6,361,248	518	745	8,648	375,101	13,381,442	11,360,730	
2017	9,011	27,639	589,779	5,729,486	258	761	8,959	350,167	12,276,220	10,893,513	

Energy+ Inc. EB-2018-0028 Exhibit 3 Page 10 of 98 Filed: April 30, 2018 Table 3-6: Billed Energy by Rate Class - Cambridge and North Dumfries

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Unmetered Loads	Embedded Distributor - Hydro One, CND	Total
Billed Energy (GWh) -	Actual								
2010	396.3	163.5	426.5	220.9	196.6	9.5	2.1	13.6	1,429.0
2011	396.6	158.3	437.2	240.8	169.2	9.5	2.1	13.5	1,427.1
2012	399.6	158.6	437.4	226.2	201.2	9.6	2.0	13.0	1,447.7
2013	384.9	156.6	452.4	239.3	204.9	9.6	2.0	13.2	1,462.8
2014	395.5	160.5	426.5	232.4	205.3	9.7	2.0	13.8	1,445.8
2015	401.3	167.2	436.4	227.4	207.4	9.7	2.0	13.5	1,464.9
2016	396.6	170.1	416.1	223.1	151.3	9.6	1.9	13.0	1,381.8
2017	374.2	152.3	424.1	207.2	146.2	7.6	1.9	12.6	1,326.1
Billed Energy (GWh) -	Masthar No.	rmal							
2010	394.6	162.8	424.7	220.0	195.7	9.5	2.1	13.6	1,423.0
2011	395.1	157.7	435.6	239.9	168.6	9.5	2.1	13.4	1,421.9
2011	397.1	157.7	434.6	239.9	199.9	9.6	2.1	12.9	1,421.9
2012	383.9	156.2	454.6	238.7	204.4	9.5	2.0	13.1	
2013	398.8	161.9	430.1	234.4	204.4	9.5	2.0	14.0	1,458.9
									1,457.9
2014 Board Approved	400.6	155.6	434.5	221.4	207.1	9.6	1.7	12.6	1,443.2
2015	401.6	167.3	436.7	227.6	207.5	9.7	2.0	13.6	1,465.8
2016	391.3	167.9	410.6	220.2	149.3	9.5	1.9	12.9	1,363.6
2017	376.8	153.3	427.0	208.6	147.2	7.7	1.9	12.7	1,335.3

Table 3-7: Number of Customers/Connections and Annual Normalized Usage by Rate Class - Cambridge and North Dumfries

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Unmetered Loads	Embedded Distributor - Hydro One, CND	Total
Number of Customers,	/Connection:	s							
2010	44,921	4,604	708	26	2	12,559	538	2	63,359
2011	45,781	4,630	724	28	2	12,624	515	2	64,304
2012	46,284	4,661	737	27	2	12,722	491	2	64,925
2013	46,638	4,696	736	25	3	12,813	487	2	65,399
2014	46,944	4,759	719	24	3	12,872	482	2	65,804
2014 Board Approved	48,091	4,740	773	27	2	12,997	482	2	67,114
2015	47,322	4,852	696	24	2	12,899	485	2	66,280
2016	47,830	4,921	693	23	2	12,943	475	2	66,887
2017	48,376	4,959	689	22	2	13,095	452	2	67,596
Actual Annual Energy (Jsage per Cu	stomer/Conr	ection (kWh	per custome	r/connection)	•	•	
2010	8,822	35,508	602,421	8,496,833	98,278,640	758	3,963	6,807,493	
2011	8,662	34,199	604,228	8,598,828	84,597,900	754	4,019	6,739,297	
2012	8,633	34,026	593,892	8,378,887	100,594,753	758	4,109	6,504,264	
2013	8,253	33,346	614,616	9,768,947	81,962,503	747	4,088	6,588,356	
2014	8,425	33,735	593,179	9,685,273	82,106,158	753	4,169	6,922,954	
2015	8,481	34,454	627,091	9,678,720	103,687,181	752	4,069	6,774,101	
2016	8,291	34,571	600,509	9,916,756	75,625,156	745	4,055	6,513,806	
2017	7,736	30,705	615,937	9,418,710	73,113,194	583	4,106	6,302,581	
Normalized Annual En	ergy Usage p	er Customer,	/Connection	(kWh per cus	tomer/conne	ection)			
2010	8,784	35,358	599,878	8,460,973	97,863,859	755	3,947	6,778,762	
2011	8,631	34,074	602,022	8,567,432	84,289,023	751	4,004	6,714,691	
2012	8,579	33,811	590,147	8,326,052	99,960,436	753	4,083	6,463,251	
2013	8,231	33,256	612,961	9,742,642	81,741,802	745	4,077	6,570,615	
2014	8,495	34,018	598,164	9,766,671	82,796,205	760	4,204	6,981,136	
2014 Board Approved	8,331	32,829	562,158	8,198,882	103,536,175	738	3,624	6,306,789	
2015	8,486	34,474	627,462	9,684,436	103,748,417	752	4,072	6,778,102	
2016	8,182	34,115	592,589	9,785,962	74,627,718	736	4,002	6,427,894	
2017	7,790	30,918	620,206	9,483,990	73,619,937	587	4,134	6,346,264	

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Table 3-8: Billed Energy by Rate Class - Energy+ Inc.

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Unmetered Loads	Hydro One,	Embedded Distributor - Brantford Power, BCP	Embedded Distributor - Hydro One #1, BCP		Total
Billed Energy (GWh) -	Actual												
2010	476.5	199.2	486.5	250.5	196.6	11.2	0.2	2.6	13.6	0.4	13.3	50.3	1,700.9
2011	478.5	194.5	500.5	269.9	169.2	11.2	0.2	2.5	13.5	0.4	13.7	51.5	1,705.5
2012	479.2	194.3	501.1	256.0	201.2	11.4	0.2	2.5	13.0	0.4	9.9	52.3	1,721.4
2013	464.8	193.7	518.3	270.3	204.9	11.3	0.2	2.4	13.2	0.4	13.9	52.1	1,745.5
2014	477.0	198.1	494.3	263.0	205.3	11.4	0.1	2.5	13.8	0.3	13.0	51.5	1,730.4
2015	486.5	203.1	485.9	263.3	207.4	11.4	0.1	2.4	13.5	0.4	13.8	62.3	1,750.2
2016	479.9	212.8	484.2	261.8	151.3	11.1	0.1	2.3	13.0	0.4	13.6	46.1	1,676.6
2017	453.9	189.0	487.0	241.4	146.2	8.4	0.1	2.3	12.6	0.3	12.2	43.3	1,596.7
Billed Energy (GWh) -	Weather No	rmal											
2010	474.5	198.4	484.5	249.4	195.7	11.2	0.2	2.6	13.6	0.4	13.3	50.0	1,693.7
2011	476.7	193.8	498.7	268.9	168.6	11.2	0.2	2.5	13.4	0.4	13.6	51.4	1,699.3
2012	476.2	193.1	498.0	254.4	199.9	11.3	0.2	2.4	12.9	0.4	9.8	52.0	1,710.6
2013	463.6	193.2	517.0	269.6	204.4	11.2	0.2	2.4	13.1	0.4	13.8	52.0	1,740.8
2014	481.0	199.8	498.4	265.3	207.0	11.5	0.1	2.5	14.0	0.3	13.1	51.9	1,745.0
2015	486.8	203.2	486.2	263.4	207.5	11.4	0.1	2.4	13.6	0.4	13.8	62.4	1,751.2
2016	473.6	210.0	477.8	258.4	149.3	11.0	0.1	2.3	12.9	0.4	13.4	45.4	1,654.5
2017	457.0	190.3	490.4	243.0	147.2	8.4	0.1	2.3	12.7	0.4	12.3	43.6	1,607.7
2018 Bridge	465.9	192.7	494.3	237.0	145.9	6.7	0.1	2.3	12.6	0.3	12.2	43.3	1,613.4
2019 Test	466.1	195.3	493.1	231.0	145.5	5.4	0.1	2.3	12.6	0.3	12.2	43.3	1,607.2

Table 3-9: Number of Customers/Connections and Annual Normalized Usage by Rate Class - Energy+ Inc.

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Unmetered Loads	Embedded Distributor - Hydro One, CND	Embedded Distributor - Brantford Power, BCP	Embedded Distributor - Hydro One #1, BCP	Embedded Distributor - Hydro One #2, BCP	Total
Number of Customers	/Connection	s											
2010	53,054	5,893	803	31	2	15,199	219	589	2	1	1	4	75,797
2011	54,019	5,932	822	33	2	15,264	189	565	2	1	1	4	76,834
2012	54,633	5,980	839	32	2	15,362	177	538	2	1	1	4	77,572
2013	55,070	6,004	840	30	3	15,453	191	534	2	1	1	4	78,132
2014	55,463	6,057	825	29	3	15,512	189	531	2	1	1	4	78,616
2015	55,922	6,149	808	29	2	15,539	189	534	2	1	1	4	79,179
2016	56,561	6,241	806	29	2	15,726	181	523	2	1	1	4	80,076
2017	57,272	6,298	796	28	2	16,024	168	499	2	1	1	4	81,094
2018 Bridge	57,970	6,374	798	27	2	16,141	168	499	2	1	1	4	81,988
2019 Test	58,677	6,451	800	27	2	16,260	168	499	2	1	1	4	82,892
Actual Annual Energy	Jsage per Cu	stomer/Conr	ection (kWh	per custome	r/connection)							
2010	8,981	33,807	606,191	8,079,334	98,278,640	739	800	4,432	6,807,493	373,339	13,348,829	12,563,307	
2011	8,857	32,785	608,533	8,177,331	84,597,900	736	867	4,448	6,739,297	373,339	13,695,350	12,886,943	
2012	8,772	32,489	597,313	8,000,257	100,594,753	739	1,009	4,564	6,504,264	374,823	9,863,707	13,079,740	
2013	8,441	32,263	617,082	9,162,052	81,962,503	729	802	4,552	6,588,356	356,273	13,883,197	13,029,275	
2014	8,601	32,715	599,124	9,070,420	82,106,158	735	777	4,617	6,922,954	338,022	12,996,387	12,871,435	
2015	8,700	33,029	601,413	9,077,770	103,687,181	733	756	4,520	6,774,101	352,068	13,819,342	15,584,864	
2016	8,485	34,100	600,791	9,186,127	75,625,156	706	755	4,487	6,513,806	380,114	13,560,292	11,512,572	
2017	7,925	30,013	611,856	8,619,711	73,113,194	523	756	4,557	6,302,581	347,757	12,191,720	10,818,530	
Normalized Annual En	ergy Usage p	er Customer,	/Connection	(kWh per cus	tomer/conne	ection)							
2010	8,943	33,664	603,633	8,045,235	97,863,859	736	796	4,413	6,778,762	371,763	13,292,491	12,510,284	
2011	8,825	32,666	606,311	8,147,475	84,289,023	733	864	4,432	6,714,691	371,976	13,645,346	12,839,892	
2012	8,717	32,284	593,546	7,949,810	99,960,436	735	1,002	4,535	6,463,251	372,459	9,801,509	12,997,264	
2013	8,418	32,176	615,420	9,137,382	81,741,802	727	800	4,540	6,570,615	355,314	13,845,814	12,994,191	
2014	8,673	32,990	604,159	9,146,651	82,796,205	741	784	4,655	6,981,136	340,863	13,105,613	12,979,611	
2015	8,706	33,049	601,769	9,083,131	103,748,417	734	756	4,523	6,778,102	352,276	13,827,503	15,594,068	
2016	8,374	33,650	592,867	9,064,969	74,627,718	697	745	4,428	6,427,894	375,101	13,381,442	11,360,730	
2017	7,980	30,221	616,097	8,679,454	73,619,937	526	761	4,589	6,346,264	350,167	12,276,220	10,893,513	
2018 Bridge	8,037	30,237	619,267	8,620,941	72,952,496	413	756	4,557	6,302,581	347,757	12,191,720	10,818,530	
2019 Test	7,943	30,272	616,082	8,557,426	72,751,563	330	756	4,557	6,302,581	347,757	12,191,720	10,818,530	

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3.2.2 Forecast Methodology – Multivariate Regression Model

Energy+'s weather normalized load forecast is developed in a three-step process. First, a total system weather normalized purchased energy forecast is developed based on multivariate regression model that incorporates historical load, weather, and other variables that impact electricity usage. Second, the weather normalized purchased energy forecast is adjusted by a historical loss factor to produce a weather normalized billed energy forecast. Finally, the forecast of billed energy by rate class is developed based on a forecast of customer/connections numbers and historical usage patterns per customer/connection. For the rate classes that have weather sensitive load their forecasted billed energy is adjusted to ensure that the total billed energy forecast by rate class is equivalent to the total weather normalized billed energy forecast that has been determined from the regression analysis. The forecast of customers by rate class is determined using a geometric mean analysis.

 The billed energy forecast is also adjusted for expected Conservation and Demand Management ("CDM") from 2018 and 2019 programs. For those rate classes that use kW for the distribution volumetric billing determinant an adjustment factor is applied to the class energy forecast based on the historical relationship between kW and kWh. The following will explain the forecasting process in more detail.

Purchased KWh Load Forecast

An equation to predict total system purchased energy is developed using a multivariate regression model with the independent variables outlined below. The regression model uses monthly kWh and monthly values of independent variables from January 2008 to December 2017 to determine the monthly regression coefficients.

With regards to weather normalization, Energy+ submits that it is appropriate to review the impact of weather over the past ten years, January 2008 to December 2017, since it is consistent with a time period outlined in the filing requirements and it is reflective of more recent weather conditions. The average weather conditions over this period are applied in the prediction formula to determine a weather normalized forecast for 2019. In accordance with the filing requirement, Energy+ has also provided sensitivity analysis showing the impact on the 2019 forecast of purchases. This analysis assumes weather normal conditions are based on a 20 year trend of weather data.

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The multivariate regression model has determined drivers of year-over-year changes in Energy+'s 1 load growth are: weather (heating and cooling degree days); days in month, spring/fall flag, number 2 of peak hours, co-generation facility flag, unemployment conditions, and CDM activity. These 3 factors are captured within the multivariate regression model. 4 5 The following outlines the predication model used by Energy+ to predict weather normal purchases 6 the 2019 Test Year. 7 8 Energy+ Inc. Monthly Predicted kWh Purchases: 9 = Heating Degree Days * 22,762 10 + Cooling Degree Days * 300,321 11 + Number of Days in the Month * 2,389,780 12 13 + Spring Fall Flag * (3,448,341) 14 + Number of Peak Hours * 89,372 + Co-generation Facility Flag * (7,336,223) 15 + Unemployment Kitchener-Waterloo-Barrie * (281,899) 16 + CDM Activity * (0.30) 17 + Constant of 48,974,306 18 The monthly data used in the regression model and the resulting monthly prediction for the actual 19 and forecasted years are provided in Appendix 3-A. 20 21 The sources of historical data from 2008 to 2017 for the various data points are: 22 23 a) Environment Canada website for monthly heating degree day and cooling degree information. 24 Weather data was obtained from the Region of Waterloo International Airport. 25 b) The calendar provided information related to number of days in the month, number of peak 26 hours and the spring fall flag. 27 c) The co-generation facility began to be operational at the beginning of 2016 which means all 28 months for 2016 and 2017 were assigned a value of "1" to indicate the facility was running. All 29 30 other months from 2008 to 2015 were assigned a value of "0". 31 d) Unemployment data was provided from Statistic Canada. Table 282-0122 provides

employment data and unemployment information for the Kitchener-Waterloo-Barrie area.

e) The CDM activity variable is an estimated level of monthly activity in CDM for all programs from

2006 to 2017 and their persistence. For each year the monthly values grow at constant value

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over the year. The addition of the monthly values will equal the total annual CDM results shown in the table below. In the first year of the program the half year rule is applied. The following table supports the level of annual CDM results and provides the source of the annual program and persistence data by year which was used to develop the monthly values shown in Appendix 3-A.

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Table 3-10: CDM Activity Variable Supporting Data

Year	IESO/OPA Annual CDM Results 2006 to 2010 programs (kWh)	IESO/OPA Annual CDM Results 2011 to 2014 programs (kWh)	IESO/OPA Annual CDM Results 2015 programs (kWh)	IESO/OPA Annual CDM Results 2016 programs (kWh)	2017 Programs (kWh)	Total Annual CDM Results (kWh)
2006	2,199,695	0	0	0	0	2,199,695
2007	5,865,381	0	0	0	0	5,865,381
2008	8,715,686	0	0	0	0	8,715,686
2009	14,062,057	0	0	0	0	14,062,057
2010	19,632,401	0	0	0	0	19,632,401
2011	23,543,736	6,993,904	0	0	0	30,537,640
2012	23,185,906	19,010,177	0	0	0	42,196,083
2013	23,093,273	29,756,733	0	0	0	52,850,006
2014	22,519,904	45,730,999	0	0	0	68,250,903
2015	20,225,485	55,118,689	39,052,345	0	0	114,396,518
2016	19,336,761	54,157,230	78,044,009	7,213,352	0	158,751,352
2017	16,614,719	52,313,262	77,653,661	14,252,795	9,320,799	170,155,235
2018	13,279,279	51,465,422	77,386,461	14,252,795	18,416,880	174,800,836
2019	7,609,615	50,830,908	77,374,944	14,252,795	18,416,880	168,485,142

The prediction formula has the following statistical results which generally indicate the formula has a good fit to the actual data set.

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Table 3-11: Statistical Results

Statistical Results	
R Square	86.2%
Adjusted R Square	85.2%
F Test	86.8
MAPE (Monthly)	2.4%
T-stats by Coefficient	
Heating Degree Days	11.2
Cooling Degree Days	14.5
Number of Days in Mont	4.9
Spring Fall Flag	(4.0)
Number of Peak Hours	4.0
Co-generation Facility Fl	(4.5)
Unemployment Kitchen	(6.0)
CDM Activity	(1.9)
Constant	3.6

The annual results of the above prediction formula compared to the actual annual purchases from 2008 to 2017 are shown below in Table 3-12 along with the predicted total system purchases for Energy+ for 2018 and 2019 on a weather normal basis. In addition, weather normal values for 2019 are provided on a 20 year trend assumption for weather normalization. Information is also provided to show the Weather Normal Conversion Factor which is used to weather normalize actual volume data. In Table 3-12, the Predicted Weather Normal values are similar to the Predicted amounts but the weather normalized heating degree days and cooling degree days used to determine the weather normal forecast for 2018 and 2019 are used in the prediction formula in place of actual heating degree days and cooling degree days. The ratio of Predicted Weather Normal to Predicted values results in a Weather Normal Conversion Factor. This factor is applied to the Actual amount which results in the Actual Weather Normal value.

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Table 3-12: Total System Purchases Excluding Wholesale Market Participants

Year	Actual	Predicted	% Difference	Predicted Weather Normal	Weather Normal Conversion Factor	Actual Weather Normal
Purchased Energy (GW	h)					
2008	1,813.4	1,811.3	(0.1%)	1,814.7	1.0019	1,816.8
2009	1,693.7	1,712.5	1.1%	1,734.1	1.0126	1,715.0
2010	1,761.9	1,750.2	(0.7%)	1,742.8	0.9958	1,754.5
2011	1,767.0	1,771.2	0.2%	1,764.8	0.9963	1,760.6
2012	1,775.2	1,788.5	0.8%	1,777.2	0.9937	1,764.0
2013	1,780.7	1,776.1	(0.3%)	1,771.3	0.9973	1,775.9
2014	1,782.4	1,764.7	(1.0%)	1,779.6	1.0084	1,797.4
2015	1,777.4	1,777.1	(0.0%)	1,778.2	1.0006	1,778.4
2016	1,722.2	1,700.6	(1.3%)	1,678.1	0.9868	1,699.5
2017	1,643.6	1,665.2	1.3%	1,676.8	1.0069	1,655.0
2018 Bridge		1,675.4		1,675.4	1.0000	
2019 Test		1,677.3		1,677.3	1.0000	
2019 Test - 20 Yr Trend		1,675.2		1,675.2	1.0000	

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The weather normalized amount for 2019 is determined by using 2019 dependent variables in the prediction formula on a monthly basis along with the average monthly heating degree days and cooling degree days which have occurred from January 2008 to December 2017 (i.e. 10 years). The 2019 weather normal 20 year trend value reflects the trend in monthly heating degree days and cooling degree days which have occurred from January 1998 to December 2017.

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Billed KWh Load Forecast

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To determine the total weather normalized energy billed forecast, the total system weather normalized purchases forecast is adjusted by a historical loss factor. The historical loss factor used is 2.82% which represents the average loss factor from 2010 to 2017. 2010 was the first year that BCP billing data was readably available. With this average loss factor the total weather normalized billed energy before adjustment discussed below will be 1,629.4 (GWh) for 2018 (i.e. 1,675.4/1.0282) and 1,631.3 (GWh) for 2019 (i.e. 1,677.3/1.0282)

Billed KWh Load Forecast and Customer/Connection Forecast by Rate Class

Since the total weather normalized billed energy amount is known this amount needs to be distributed by rate class for rate design purposes taking into consideration the customer/connection forecast and expected usage per customer by rate class.

The next step in the forecasting process is to determine a customer/connection forecast. The customer/connection forecast is based on reviewing historical customer/connection data that is available as shown in the following Table 3-13.

Table 3-13: Historical Customer/Connection Data

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Unmetered Loads	Distributor - Hydro One,	Embedded Distributor Brantford Power, BCP			Total
Number of Customers	/Connection	s											
2008	51,351	5,652	777	33	2	15,006	139	512	2	1	1	4	73,478
2009	51,970	5,789	786	32	2	15,100	179	550	2	1	1	4	74,415
2010	53,054	5,893	803	31	2	15,199	219	589	2	1	1	4	75,797
2011	54,019	5,932	822	33	2	15,264	189	565	2	1	1	4	76,834
2012	54,633	5,980	839	32	2	15,362	177	538	2	1	1	4	77,572
2013	55,070	6,004	840	30	3	15,453	191	534	2	1	1	4	78,132
2014	55,463	6,057	825	29	3	15,512	189	531	2	1	1	4	78,616
2015	55,922	6,149	808	29	2	15,539	189	534	2	1	1	4	79,179
2016	56,561	6,241	806	29	2	15,726	181	523	2	1	1	4	80,076
2017	57,272	6,298	796	28	2	16,024	168	499	2	1	1	4	81,094

From the historical customer/connection data the growth rate in customer/connection can be evaluated which is provided on the following Table 3-14.

Table 3-14: Growth Rate in Customer/Connections

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Unmetered Loads	Embedded Distributor - Hydro One, CND	Embedded Distributor - Brantford Power, BCP	Embedded Distributor - Hydro One #1, BCP	Embedded Distributor Hydro One #2, BCP
Growth Rate in Cust	omers/Connec	tions										
2008												
2009	1.2%	2.4%	1.2%	(4.5%)	0.0%	0.6%	29.3%	7.6%		0.0%	0.0%	0.0%
2010	2.1%	1.8%	2.2%	(1.6%)	0.0%	0.7%	22.4%	7.0%	0.0%	0.0%	0.0%	0.0%
2011	1.8%	0.7%	2.5%	6.5%	0.0%	0.4%	(13.7%)	(4.1%)	0.0%	0.0%	0.0%	0.0%
2012	1.1%	0.8%	2.0%	(3.0%)	0.0%	0.6%	(6.5%)	(4.7%)	0.0%	0.0%	0.0%	0.0%
2013	0.8%	0.4%	0.1%	(7.8%)	25.0%	0.6%	7.7%	(0.8%)	0.0%	0.0%	0.0%	0.0%
2014	0.7%	0.9%	(1.8%)	(1.7%)	0.0%	0.4%	(1.1%)	(0.6%)	0.0%	0.0%	0.0%	0.0%
2015	0.8%	1.5%	(2.1%)	0.0%	(20.0%)	0.2%	0.1%	0.6%	0.0%	0.0%	0.0%	0.0%
2016	1.1%	1.5%	(0.2%)	(1.7%)	0.0%	1.2%	(4.1%)	(2.1%)	0.0%	0.0%	0.0%	0.0%
2017	1.3%	0.9%	(1.2%)	(1.8%)	0.0%	1.9%	(7.2%)	(4.6%)	0.0%	0.0%	0.0%	0.0%
Geometric Mean	1.2%	1.2%	0.3%	(1.8%)	0.0%	0.7%	2.2%	(0.3%)	0.0%	0.0%	0.0%	0.0%

For all classes, except Sentinel Lights and Unmetered Loads, the factor resulting from the geometric mean analysis from 2008 to 2017 is applied to the 2017 customer/connection numbers

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to determine the forecast of customer/connections for 2018. Then the factor is applied again to 2018 forecast to determine the 2019 forecast. For Sentinel Lights, Energy+ does not expect the number of connections for Sentinel Lights to increase by 2.2%. Energy+ Inc. does expect the number of connections for Sentinel Lights to reduce in 2018 and 2019 reflecting the decline in connections since 2010. However, for the purposes of this Application, Energy+ has assumed the number of connections for Sentinel Lights will remain at the 2017 level in 2018 and 2019. For Unmetered Loads, Energy+ expects the number of connections will remain at the 2017 level of this class for 2018 and 2019. Table 3-15 outlines the forecast of customers by rate class for the 2018 Bridge Year and 2019 Test Year.

Table 3-15: Customer/Connection Forecast

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Unmetered Loads	Distributor - Hydro One,		Distributor - Hydro One		Total
Forecast Number of	Customers/Co	nnections											
2018 Bridge	57,970	6,374	798	27	2	16,141	168	499	2	1	1	4	81,988
2019 Test	58.677	6.451	800	27	2	16.260	168	499	2	1	1	4	82.892

 The next step in the process is to review the historical customer/connection usage and to reflect this usage per customer in the forecast. Table 3-16 below provides the average annual usage per customer by rate class for 2017.

Table 3-16: 2017 Actual Annual Usage per Customer

Year		Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights		Distributor - Hydro One,		Distributor - Hydro One	Distributor -
Annual kW	Vh Usage Per	Customer/C	Connection						•				
2017		7,925	30,013	611,856	8,619,711	73,113,194	523	756	4,557	6,302,581	347,757	12,191,720	10,818,530

The 2018 and 2019 forecast of usage per customer/connection have been held constant at the 2017 level since as can be observed in Table 3-8 the usage per customer/connection has generally been declining since 2010. To continue this declining pattern into the 2018 and 2019 could cause double counting of CDM results when a manual adjustment for CDM is applied to 2018 and 2019 later on in the process. The resulting usage forecast is as follows in Table 3-17.

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Table 3-17: Forecast Annual kWh Usage per Customer/Connection

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights		Distributor - Hydro One,			Distributor -
Forecast Annual kWh U	Jsage per Cu	stomers/Con	nection									
2018 Bridge	7,925	30,013	611,856	8,619,711	73,113,194	523	756	4,557	6,302,581	347,757	12,191,720	10,818,530
2019 Test	7,925	30,013	611,856	8,619,711	73,113,194	523	756	4,557	6,302,581	347,757	12,191,720	10,818,530

The preceding information is used to determine the non-normalized weather billed energy forecast by applying the forecast number of customer/connection from Table 3-15 by the forecast of annual usage per customer/connection from Table 3-17. The resulting non-normalized weather billed energy forecast is shown in the following Table 3-18.

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Table 3-18: Non-normalized Weather Billed Energy Forecast

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Unmetered	Distributor - Hydro One,	Distributor -	Distributor -	Embedded Distributor - Hydro One #2, BCP	Total
NON-normalized Wea	ther Billed E	nergy Forecas	t (GWh)										
2018 Bridge	459.4	191.3	488.4	237.0	146.2	8.4	0.1	2.3	12.6	0.3	12.2	43.3	1,601.5
2019 Test	465.0	193.6	489.7	232.7	146.2	8.5	0.1	2.3	12.6	0.3	12.2	43.3	1.606.6

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The non-normalized weather billed energy forecast has been determined but this needs to be adjusted in order to be aligned with the total weather normalized billed energy forecast mentioned above of 1,629.4 (GWh) for 2018 and 1,631.3 (GWh) for 2019.

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The difference between the non-normalized and normalized forecast is assumed to be the adjustment to move the forecast to a weather normal basis and this amount will be assigned to those rate classes that are weather sensitive. Based on the weather normalization work completed by Hydro One for CND for the original cost allocation informational study it was determined that the weather sensitivity by rate classes is as follows in Table 3-19. The values in the table are consistent with the rate class weather sensitivity percentages used in the 2014 COS application for CND. The Hydro One weather sensitive data for BCP was not reflected in the table below as the weather normalization work completed by Hydro One for BCP was not readily available. Even if the data was readily available it is expected it would have limited impact on the information in Table 3-19.

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Table 3-19: Weather Sensitivity by Rate Class

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The difference between the non-normalized and normalized forecast has been assigned on a prorata basis to each rate class based on the above level of weather sensitivity.

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CDM Adjustment and LRAMVA

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A manual adjustment has been made to reflect the impact of 2018 to 2019 CDM programs on the load forecast. Energy has made this adjustment to reflect the "net" impact of the CDM programs on the load forecast.

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17 18 The following Table 3-20, outlines the expected full year savings from 2018 to 2019 CDM programs based on the 2015 to 2020 CDM Plan for Energy. The savings for 2019 have been reduced by the amount of savings associated with new load displacement generation that will be charged a standby charge which is discussed in Exhibit 8. Since the standby charge will collect revenues associated with the load displacement generation the kWh savings for the load displacement generation are not included in the values below and will not reduce the load forecast for 2019.

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Table 3-20: 2018 - 2019 Expected Full Year Total kWh Savings

	2018	2019
2018 Programs	32,139,658	16,869,658
2019 Programs		14,478,178
Total Including	22 420 650	24 247 027
Persistence	32,139,658	31,347,837

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Since the regression analysis is based on actual power purchased data up to and including 2017 actual data, it is assumed that any savings from programs initiated up to and including 2017 are reflected in the prediction equation on a full year basis since the CDM Activity variable is used in the prediction formula. It is also assumed the savings in the first year of the program will be occur evenly over the year which mean the actual impact on the load forecast will be one half of the full year results in the first year of the program. This has been classified as the half year rule for CDM

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purposes. As a result, consistent with approach used in previous COS applications the following table outlines the total manual CDM adjustment for 2018 and 2019.

Table 3-21: 2018 - 2019 Manual CDM Adjustment with 1/2 year rule (kWh)

	2018	2019
Total Manual CDM	46,060,030	24 400 740
Adjustment	16,069,829	24,108,748

Based on input from Energy+ CDM staff the following outlines the allocation of CDM results by rate class.

Table 3-22: Rate Class CDM Allocator

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Unmetered Loads	Distributor - Hydro One,	Distributor -		
2018 Bridge	36%	23%	16%	12%	2%	11%	0%	0%	0%	0%	0%	0%
2019 Test	41%	12%	17%	14%	3%	13%	0%	0%	0%	0%	0%	0%

Table 3-23: Manual CDM Adjustment by Rate Class (kWh)

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights			Embedded Distributor - Brantford Power, BCP	Distributor -		Total
2018 Bridge	5,785,139	3,696,061	2,571,173	1,928,380	321,397	1,767,681	0	0	0	0	0	0	16,069,829
2019 Test	9,884,587	2,893,050	4,098,487	3,375,225	723,262	3,134,137	0	0	0	0	0	0	24,108,748

In accordance with the *Guidelines for Electricity Distributor Conservation and Demand Management* (EB-2013-0003), issued April 26, 2013 ("CDM Guidelines"), it is Energy+s understanding that as part of this application expected CDM savings in 2019 from 2018 and 2017 programs will need to be established for lost revenue adjustment mechanism ("LRAM") variance accounts purposes. Energy+ also understands that the IESO will measure CDM results on a full year net basis. Consistent with past practices, it is expected the full year net level of savings will be used for LRAM variance calculations. As a result, it is Energy+'s view the units used for the LRAM variance account should also be on a full year net basis. Based on the evidence provided above in regards to the CDM manual adjustment the following equation is used to determine the rate class kWh assumed in the load forecast for LRAM variance account purposes.

purposes The expected kW saving has also been provided for those classes billed distribution

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	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Unmetered Loads	Distributor - Hydro One,	Embedded Distributor - Brantford Power, BCP	Distributor - Hydro One	Distributor -	Total
2019 kWh	12,852,613	3,761,740	5,329,132	4,388,697	940,435	4,075,219	0	0	0	0	0	0	31,347,837
2019 kW - Annual			16,819	10,300	2,144	11,744			0	0	0	0	41,006
2019 kW - Monthly			1,402	858	179	979			0	0	0	0	3,417

The following Table 3-25 outlines how the classes have been adjusted to align the non-normalized forecast with the normalized forecast. This table also reflects the adjustments for Hydro One load transfers and manual CDM.

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Table 3-25: Alignment of Non-normal to Weather Normal Forecast and Other Adjustments

Year	Residential	General Service < 50 kW	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Unmetered Loads	Hydro One,	Embedded Distributor - Brantford Power, BCP	Embedded Distributor - Hydro One #1, BCP	Embedded Distributor - Hydro One #2, BCP	Total
Non-normalized Weat	her Billed En	ergy Forecas	t (GWh)										
2018 Bridge	459.4	191.3	488.4	237.0	146.2	8.4	0.1	2.3	12.6	0.3	12.2	43.3	1,601.5
2019 Test	465.0	193.6	489.7	232.7	146.2	8.5	0.1	2.3	12.6	0.3	12.2	43.3	1,606.6
Weather Adjustment (GWh)												
2018 Bridge	12.3	5.1	8.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9
2019 Test	11.0	4.6	7.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7
CDM Adjustment (GW	h)												
2018 Bridge	(5.8)	(3.7)	(2.6)	(1.9)	(0.3)	(1.8)	0.0	0.0	0.0	0.0	0.0	0.0	(16.1)
2019 Test	(9.9)	(2.9)	(4.1)	(3.4)	(0.7)	(3.1)	0.0	0.0	0.0	0.0	0.0	0.0	(24.1)
Weather Normalized E	Billed Energy	Forecast (GV	Vh)										
2018 Bridge	465.9	192.7	494.3	237.0	145.9	6.7	0.1	2.3	12.6	0.3	12.2	43.3	1,613.4
2019 Test	466.1	195.3	493.1	231.0	145.5	5.4	0.1	2.3	12.6	0.3	12.2	43.3	1,607.2

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Billed KW Load Forecast

There are a number of Energy+ customers/connections that are charged volumetric distribution on a per kW basis. This includes Wholesale Market Participants ("WMP"). However WMPs only have kW associated with them since there are no charges to them from Energy+ that are based on kWh. The kW forecast for these customers is simply the 2017 actual value held constant. The WMP are included in three rate classes. One WMP is in the General Service > 50 to 999 kW class, three are in the General Service > 1000 to 4999 kW class and one is an Embedded Distributor class.

The following table shows the forecasted number of customers and kW for the WMP included in the General Service classes

Table 3-26: Direct Market Participant

Year	Number of Meter Points	kW
2010	4	75,928
2011	4	81,848
2012	4	81,651
2013	4	73,573
2014	4	69,661
2015	4	69,115
2016	4	70,836
2017	4	67,942
2018 Bridge	4	67,942
2019 Test	4	67,942

The following table shows the forecasted number of customers and kW for the WMP in the Embedded Distributor class for Waterloo North.

Table 3-27: Embedded Distributor Waterloo North

Year	Number of Meter Points	kW
2010	1	73,663
2011	1	78,980
2012	1	70,982
2013	1	92,130
2014	1	106,790
2015	1	108,929
2016	1	121,168
2017	1	114,657
2018 Bridge	1	114,657
2019 Test	1	114,657

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The information in the above two table is included in the Table 3-30: Forecast Summary.

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9 10 For the General Service > 50 to 999 kW, General Service > 1000 to 4999 kW, Large User, Street Lights, Sentinel Lights, Embedded Distributors - BCP and Embedded Distributors - Hydro One, the energy forecast for these classes needs to be converted to a kW basis for rate setting purposes. The forecast of kW for these classes is based on a review of the historical ratio of kW to kWh and applying the average ratio from 2010 to 2017 to the forecasted kWh to produce the required kW.

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The following Table 3-28 outlines the annual historical demand units by applicable rate class.

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Table 3-28: Historical Annual kW per Applicable Rate Class

Year	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Embedded Distributors - Hydro One & Waterloo, CND	Embedded		Embedded Distributors - Hydro One #2, BCP	Total
Billed Annual kW										
2010	1,535,992	646,504	421,436	31,415	487	101,371	10	29,200	109,926	2,876,341
2011	1,559,458	659,131	431,699	31,403	228	107,151	44	31,128	117,161	2,937,403
2012	1,578,630	606,302	483,777	31,677	311	100,035	88	24,429	129,577	2,954,827
2013	1,568,193	586,435	425,912	31,772	307	119,938	31	31,865	119,621	2,884,073
2014	1,605,303	581,849	457,867	31,886	293	135,496	95	31,822	126,065	2,970,676
2015	1,555,819	581,153	430,087	31,873	288	137,772	95	30,827	139,060	2,906,975
2016	1,564,561	631,904	358,566	31,300	417	148,634	1,313	29,428	99,936	2,866,059
2017	1,518,753	574,484	348,189	24,144	343	139,044	1,075	29,011	102,973	2,738,017

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Table 3-29 shows the historical ratio of kW/kWh and the average ratio from 2010 to 2017. For the General Service > 50 to 999 kW class, the General Service > 1000 to 4999 kW class and the Large

User class the average factor was applied to the weather normalized billed energy forecast in Table 3-24 to provide the forecast of kW by rate class. For the Street Lights class the ratio used reflects the new load of recently converted streetlights to energy efficient lights. For all other classes, the 2017 ratio was used since the forecasted kWh for these classes was maintained at the 2017 level.

Table 3-29: Historical kW/KWh Ratio per Applicable Rate Class

Year	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Embedded Distributors - Hydro One & Waterloo, CND	Fmhedded		Embedded Distributors - Hydro One #2, BCP
Ratio of kW to kWh					_				
2010	0.3157%	0.2581%	0.2144%	0.2798%	0.2778%		0.0028%	0.2187%	0.2187%
2011	0.3116%	0.2443%	0.2551%	0.2796%	0.1392%		0.0119%	0.2273%	0.2273%
2012	0.3150%	0.2368%	0.2405%	0.2788%	0.1744%		0.0233%	0.2477%	0.2477%
2013	0.3025%	0.2170%	0.2079%	0.2821%	0.2009%	0.2027%	0.0087%	0.2295%	0.2295%
2014	0.3248%	0.2212%	0.2231%	0.2796%	0.1998%	0.1866%	0.0280%	0.2449%	0.2449%
2015	0.3202%	0.2208%	0.2074%	0.2797%	0.2021%	0.1864%	0.0271%	0.2231%	0.2231%
2016	0.3231%	0.2414%	0.2371%	0.2818%	0.3048%	0.1997%	0.3455%	0.2170%	0.2170%
2017	0.3118%	0.2380%	0.2381%	0.2882%	0.2700%	0.1966%	0.3091%	0.2380%	0.2380%
Average 2010 to 2017	0.3156%	0.2347%	0.2279%	0.2812%	0.2211%	0.1944%	0.0946%	0.2308%	0.2308%
Used for Forecast	0.3156%	0.2347%	0.2279%	0.2882%	0.2700%	0.1966%	0.3091%	0.2380%	0.2380%

The following Table 3-30 outlines the forecast of kW for the applicable rate classes.

Table 3-30: kW Forecast by Applicable Rate Class

Year	General Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	Embedded Distributors - Hydro One & Waterloo, CND	Embedded	Distributors	Embedded Distributors - Hydro One #2, BCP	Total
Predicted Billed kW										
2018 Bridge	1,559,982	556,266	332,575	19,227	343	139,044	1,075	29,995	102,973	2,741,479
2019 Test	1,556,242	542,178	382,038	15,467	343	139,044	1,075	29,995	102,973	2,769,356

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Table 3-31 provides a summary of the load forecast on a billing determinant basis by rate class.

Table 3-31: Summary of Total Load Forecast

	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Bridge	2019 Test
Purchases										
Actual kWh Purchases	1,761,921,851	1,767,032,101	1,775,157,464	1,780,674,124	1,782,419,695	1,777,379,399	1,722,187,256	1,643,582,347		
Predicted kWh Purchases	1,750,181,987	1,771,238,583	1,788,477,370	1,776,111,888	1,764,743,832	1,777,115,136	1,700,560,186	1,665,209,417	1,675,356,044	1,677,252,32
% Difference between										
actual and predicted	(0.7%)	0.2%	0.8%	(0.3%)	(1.0%)	(0.0%)	(1.3%)	1.3%		
purchases										
Loss Factor									1.0282	1.0282
Total Billed Before CDM									1.0202	1.0202
Adjustments									1,629,428,572	1,631,272,86
CDM Adjustment									16,069,829	24,108,748
Total Billed After									10,003,823	24,100,748
Adjustments	1,700,869,074	1,705,485,901	1,721,439,858	1,745,480,851	1,730,430,155	1,750,185,363	1,676,617,027	1,596,674,910	1,613,358,743	1,607,164,11
Billing Determinants										
Residential										
Customers	53,054	54,019	54,633	55,070	55,463	55,922	56,561	57,272	57,970	58,677
kWh	476,486,462	478,456,723	479,247,118	464,848,343	477,025,968	486,541,296	479,944,152	453,855,075	465,920,846	466,068,279
	•			•		•				•
General Service < 50 kW										
Customers	5,893	5,932	5,980	6,004	6,057	6,149	6,241	6,298	6,374	6,451
kWh	199,237,830	194,492,494	194,297,829	193,717,267	198,149,245	203,100,575	212,807,519	189,005,848	192,724,357	195,276,256
General Service > 50 to 99		1		1	1	1	1			
Customers	803	822	839	840	825	808	806	796	798	800
kWh	486,523,861	500,487,578	501,135,345	518,348,767	494,277,242	485,904,146	484,199,963	487,037,522	494,297,087	493,112,062
kW	1,535,992	1,559,458	1,578,630	1,568,193	1,605,303	1,555,819	1,564,561	1,518,753	1,559,982	1,556,242
General Service > 1000 to	4999 kW									
Customers	31	33	32	30	29	29	29	28	27	27
kWh	250,459,340	269,851,932	256,008,219	270,280,543	263,042,176	263,255,330	261,804,628	241,351,905	237,019,612	231,017,192
kW	646,504	659,131	606,302	586,435	581,849	581,153	631,904	574,484	556,266	542,178
Lorgo Hoor										
Customers	2	2	2	3	3	2	2	2	2	2
kWh	196,557,281	169,195,800	201,189,505	204,906,257	205,265,395	207,374,362	151,250,312	146,226,388	145,904,992	145,503,126
kW	421,436	431,699	483,777	425,912	457,867	430,087	358,566	348,189	332,575	382,038
Divo et Moules t Deutinio										
Direct Market Participant		A	Α	A	Α	Α	Α	,		Α
Customers	4	4	4	4 72 572	4	4	70.026	4	4	4
kW	75,928	81,848	81,651	73,573	69,661	69,115	70,836	67,942	67,942	67,942

Table 3-31: Summary of Total Load Forecast (Continued)

	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Bridge	2019 Test
Street Lights									J	
Connections	15.199	15,264	15,362	15,453	15,512	15,539	15,726	16,024	16,141	16,260
kWh	11,228,686	11,229,393	11,359,959	11,262,943	11,406,116	11,394,266	11,108,606	8,378,434	6,672,112	5,367,464
kW	31,415	31,403	31,677	31,772	31,886	31,873	31,300	24,144	19,227	15,467
KVV	31,413	31,403	31,077	31,772	31,000	31,073	31,300	24,144	19,227	13,407
Sentinel Lights										
Connections	219	189	177	191	189	189	181	168	168	168
kWh	175,284	164,006	178,406	152,803	146,515	142,708	136,701	126,989	126,989	126,989
kW	487	228	311	307	293	288	417	343	343	343
Unmetered Loads										
Connections	589	565	538	534	531	534	523	499	499	499
kWh	2,609,945	2,512,919	2,457,458	2,430,645	2,451,442	2,413,614	2,346,838	2,273,988	2,273,988	2,273,988
KVVII	2,009,943	2,312,313	2,437,436	2,430,043	2,431,442	2,413,014	2,340,636	2,273,300	2,273,366	2,273,300
Embedded Distributor - H	ydro One, CND									
Customers	2	2	2	2	2	2	2	2	2	2
kWh	13,614,985	13,478,594	13,008,529	13,176,711	13,845,907	13,548,203	13,027,612	12,605,162	12,605,162	12,605,162
kW	27,708	28,171	29,053	27,809	28,706	28,843	27,466	24,387	24,387	24,387
Embedded Distributor - V		,								
Customers	1	1	1	1	1	1	1	1	1	1
kWh				45,983,610	58,781,039	60,363,736	61,404,044	58,104,381	58,104,381	58,104,381
kW	73,663	78,980	70,982	92,130	106,790	108,929	121,168	114,657	114,657	114,657
Embedded Distributor - B	rantford Powe	r. BCP								
Customers	1	1	1	1	1	1	1	1	1	1
kWh	373,339	373,339	374,823	356,273	338,022	352,068	380.114	347,757	347.757	347,757
kW	10	44	88	31	95	95	1,313	1,075	1,075	1,075
	•									
Embedded Distributor - H	ydro One #1, B	СР								
Customers	1	1	1	1	1	1	1	1	1	1
kWh										
KVVII	13,348,829	13,695,350	9,863,707	13,883,197	12,996,387	13,819,342	13,560,292	12,191,720	12,191,720	12,191,720
kW	13,348,829 29,200	13,695,350 31,128	9,863,707 24,429	13,883,197 31,865	12,996,387 31,822	13,819,342 30,827	13,560,292 29,428	12,191,720 29,011	12,191,720 29,995	12,191,720 29,995
kW	29,200	31,128	, ,							, ,
kW Embedded Distributor - H	29,200 ydro One #2, B	31,128 CP	24,429	31,865	31,822	30,827	29,428	29,011	29,995	29,995
kW Embedded Distributor - H Customers	29,200 ydro One #2, B	31,128 CP	24,429	31,865	31,822	30,827	29,428	29,011	29,995	29,995
kW Embedded Distributor - H	29,200 ydro One #2, B	31,128 CP	24,429	31,865	31,822	30,827	29,428	29,011	29,995	29,995
kW Embedded Distributor - H Customers kWh	29,200 ydro One #2, B 4 50,253,230	31,128 CP 4 51,547,773	24,429 4 52,318,962	31,865 4 52,117,102	31,822 4 51,485,741	30,827 4 62,339,455	29,428 4 46,050,289	29,011 4 43,274,122	29,995 4 43,274,122	29,995 4 43,274,122
kW Embedded Distributor - H Customers kWh	29,200 ydro One #2, B 4 50,253,230	31,128 CP 4 51,547,773	24,429 4 52,318,962	31,865 4 52,117,102	31,822 4 51,485,741	30,827 4 62,339,455	29,428 4 46,050,289	29,011 4 43,274,122	29,995 4 43,274,122	29,995 4 43,274,122
Embedded Distributor - H Customers kWh kW - Estimated	29,200 ydro One #2, B 4 50,253,230	31,128 CP 4 51,547,773	24,429 4 52,318,962	31,865 4 52,117,102	31,822 4 51,485,741	30,827 4 62,339,455	29,428 4 46,050,289	29,011 4 43,274,122	29,995 4 43,274,122	29,995 4 43,274,122
Embedded Distributor - H Customers kWh kW - Estimated	29,200 ydro One #2, B 4 50,253,230 109,926 75,802	31,128 CP 4 51,547,773 117,161	24,429 4 52,318,962 129,577 77,577	31,865 4 52,117,102 119,621 78,137	31,822 4 51,485,741 126,065 78,621	4 62,339,455 139,060	29,428 4 46,050,289 99,936 80,081	29,011 4 43,274,122 102,973 81,099	29,995 4 43,274,122 102,973	29,995 4 43,274,122 102,973 82,897
Embedded Distributor - H Customers kWh kW - Estimated Total Customer/Connections	29,200 ydro One #2, B 4 50,253,230 109,926 75,802	31,128 CP 4 51,547,773 117,161 76,839	24,429 4 52,318,962 129,577 77,577	31,865 4 52,117,102 119,621 78,137	31,822 4 51,485,741 126,065 78,621	30,827 4 62,339,455 139,060 79,184	29,428 4 46,050,289 99,936 80,081	29,011 4 43,274,122 102,973 81,099	29,995 4 43,274,122 102,973 81,993	29,995 4 43,274,122 102,973

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3.3 ACCURACY OF LOAD FORECAST AND VARIANCE ANALYSIS

3.3.1 Variance Analysis of Distribution Revenue and Billing Determinants

The following discussion provides a year over year variance analysis on Energy+'s distribution revenue and billing determinants. The variance analysis compares 2014 Board Approved Proxy to 2014 Actual; 2014 Actual to 2015 Actual; 2015 Actual to 2016 Actual; 2016 Actual to 2017 Actual; 2017 Actual to 2018 Bridge Year and 2018 Bridge Year to 2019 Test Year. The overall variance analysis has been provided based on Energy+ Inc.'s materiality of \$175,000; the materiality calculation being noted earlier in Exhibit 1 of this Application. The 2014 Board Approved revenue amount was determined on a proxy basis as described at the beginning of this Exhibit. The 2014 Board Approved billing quantities reflect the 2014 Board Approved billing quantities for CND plus the 2011 Board approved billing quantities for the former BCP.

2014 Board Approved to 2014 Actual

1 2

Table 3-32 compares distribution revenues for the 2014 Board Approved Proxy to the 2014 Actuals. Table 3-33 compares the billing determinants (customers/connections and volumes).

2014 Actual Distribution revenue was \$753,989 lower than the 2014 Board Approved Proxy, principally due to lower distribution revenue in the Residential, GS 50-999 kW and Large User customer classes. Distribution revenue for residential customers was \$194,758 lower than the 2014 Board Approved Proxy amount due to a lower than forecast number of customers and lower than forecast volumes. Distribution revenue for the General Service 50 to 999 kW customers was \$261,110 lower than the 2014 Board Approved Proxy amount principally explained by a lower than forecast number of customers. Distribution revenue for the Large User customer was \$259,709 lower than the 2014 Board Approved Proxy amount principally explained by the reclassification of 1 Large User customer to the GS 1,000 – 4,999 customer class during the year.

Table 3-32: Comparison 2014 Board Approved Proxy to 2014 Actual

	2014 Board Approved	2014 Actual	Difference \$	Difference %
Distribution Throughput Revenue				
Residential	16,617,706	16,422,948	(194,758)	-1.19%
General Service < 50 kW	3,877,701	3,926,809	49,108	1.25%
General Service > 50 to 999 kW	7,895,232	7,634,122	(261,110)	-3.42%
General Service > 1000 to 4999 kW	1,854,779	1,841,141	(13,638)	-0.74%
Large User	1,504,085	1,244,376	(259,709)	-20.87%
Street Lights	1,041,525	1,000,647	(40,878)	-4.09%
Sentinel Lights	22,962	17,721	(5,241)	-29.57%
Unmetered Loads	64,116	58,509	(5,607)	-9.58%
Embedded Distributor	194,006	196,448	2,442	1.24%
Other	-	(24,598)	(24,598)	100.00%
Total	33,072,112	32,318,123	(753,989)	-2.33%

Table 3-33: Comparison 2014 Board Approved Proxy to 2014 Actual

Billing Quantiites	Custon Connec		Units	its Volume		Volume Nor		Annual Usage Per Customer / Connection		Annual Usage Per Customer / Connection Weather Normal	
Weather Normal Conversion Factor							1.0084				
	2014			2014		2014		2014		2014	
	Board	2014		Board	2014	Board	2014	Board	2014	Board	2014
	Approved	Actual		Approved	Actual	Approved	Actual	Approved	Actual	Approved	Actual
Residential	56,426	55,463	kWh	483,440,220	477,025,968	483,440,220	481,035,054	8,568	8,601	8,568	8,673
General Service < 50 kW	6.078	6.057	kWh	196,006,542	198,149,245	196,006,542	199.814.557	32,249	32,715	32,249	32,990
General Service > 50 to 999 kW	874	825	kW	1.403.590	1.605.303	1,403,590	1.618.795	1,606	1,946	1,606	1,962
General Service > 1000 to 4999 kW	32	29	kW	721,911	581,849	721,911	586,739	22,560	20,064	22,560	20,232
Large User	2	3	kW	429,057	457,867	429,057	461,715	214,529	183,147	214,529	184,686
Direct Market Participant	1	4	kW	79,211	69,661	79,211	70,246	79,211	17,415	79,211	17,562
Street Lights	15,627	15,512	kW	30,534	31,886	30,534	32,154	2	2	2	2
Sentinel Lights	218	189	kW	574	293	574	295	3	2	3	2
Unmetered Loads	533	531	kWh	1,842,943	2,451,442	1,842,943	2,472,045	3,458	4,617	3,458	4,655
Embedded Distributor - Hydro One, CND	1	2	kW	29,869	28,706	29,869	28,948	29,869	14,353	29,869	14,474
Embedded Distributor - Waterloo North, CN	1	1	kW	72,975	106,790	72,975	107,687	72,975	106,790	72,975	107,687
Embedded Distributor - Brantford Power, B	1	1	kW	38	95	38	95	38	95	38	95
Embedded Distributor - Hydro One #1, BCP	1	1	kW	26,712	31,822	26,712	32,090	26,712	31,822	26,712	32,090
Embedded Distributor - Hydro One #2, BCP	4	4	kW	100,541	126,065	100,541	127,124	25,135	31,516	25,135	31,781
Total	79,799	78,621									
	Varia	nce		Variance		Vari	ance	Varia	nce	Variance	
Residential	(96	3)	kWh	(6,414,252)		(2,405,166)		33		105	
General Service < 50 kW	(21	L)	kWh	2,142,703		3,808,015		467		742	
General Service > 50 to 999 kW	(49	9)	kW	201,	713	215,205		34	0	356	
General Service > 1000 to 4999 kW	(3)	kW	(140,062)		(135,172)		(2,496)		(2,327)	
Large User	1		kW	28,810		32,658		(31,382)		(29,843)	
Direct Market Participant	3		kW	(9,5	50)	(8,965)		(61,796)		(61,649)	
Street Lights	(11	5)	kW	1,3	52	1,6	520	0		0	
Sentinel Lights	(29	9)	kW	(28	1)	(27	79)	(1)	(1))
Unmetered Loads	(2)	kWh	608,4	499	629,	102	1,1	59	1,19	98
Embedded Distributor - Hydro One, CND	1		kW	(1,1)	62)	(92	21)	(15,5	16)	(15,3	95)
Embedded Distributor - Waterloo North, CN	0	0		33,8	315	34,	712	33,8	15	34,7	12
Embedded Distributor - Brantford Power, B			kW	57	7	57		57		57	
Embedded Distributor - Hydro One #1, BCP	0		kW	5,1:	10	5,378		5,110		5,378	
Embedded Distributor - Hydro One #2, BCP	0		kW	25,5	524	26,583		6,381		6,646	

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2014 Actual to 2015 Actual

Table 3-34 compares distribution revenues for the 2015 Actual to the 2014 Actuals. Table 3-35 compares the billing determinants (customers/connections and volumes).

2015 Actual distribution revenue was \$32,902,742 or \$584,619 higher than the 2014 Actuals, principally explained by higher revenue in the Residential and GS < 50 kW customer classes. Distribution revenue in the Residential customer class was \$237,394 higher than the 2014 Actuals, explained by an increase in the number of customers (459), as well as higher annual consumption per customer. Distribution revenue for the General Service 50 to 999 kW customers was \$245,178 higher than the 2014 Actuals principally explained by an increase in the number of customers (92) as well as higher annual consumption per customer.

Table 3-34: Comparison 2015 Actual to 2014 Actual

	2014 Actual	2015 Actual	Difference \$	Difference %
Distribution Throughput Revenue				
Residential	16,422,948	16,660,342	237,394	1.42%
General Service < 50 kW	3,926,809	4,171,987	245,178	5.88%
General Service > 50 to 999 kW	7,634,122	7,544,907	(89,215)	-1.18%
General Service > 1000 to 4999 kW	1,841,141	1,833,026	(8,115)	-0.44%
Large User	1,244,376	1,228,321	(16,055)	-1.31%
Street Lights	1,000,647	1,069,866	69,219	6.47%
Sentinel Lights	17,721	28,319	10,598	37.42%
Unmetered Loads	58,509	56,137	(2,372)	-4.23%
Embedded Distributor	196,448	260,109	63,661	24.47%
Other	(24,598)	49,728	74,326	149.47%
Total	32,318,123	32,902,742	584,619	1.78%

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Table 3-35: Comparison 2014 Actual to 2015 Actual

Billing Quantiites	Custon		Units	Volume		Volume Weather Normal		Annual Usage Per Customer / Connection		Annual Usage Per Customer / Connection Weather Normal	
Weather Normal Conversion Factor						1.0084	1.0006				
	2014 Actual	2015 Actual		2014 Actual	2015 Actual	2014 Actual	2015 Actual	2014 Actual	2015 Actual	2014 Actual	2015 Actual
Residential	55,463	55,922	kWh	477,025,968	486,541,296	481,035,054	486,828,639	8,601	8,700	8,673	8,706
General Service < 50 kW	6,057	6,149	kWh	198,149,245	203,100,575	199,814,557	203,220,523	32,715	33,029	32,990	33,049
General Service > 50 to 999 kW	825	808	kW	1,605,303	1,555,819	1,618,795	1,556,738	1,946	1,926	1,962	1,927
General Service > 1000 to 4999 kW	29	29	kW	581,849	581,153	586,739	581,496	20,064	20,040	20,232	20,052
Large User	3	2	kW	457,867	430,087	461,715	430,341	183,147	215,043	184,686	215,170
Direct Market Participant	4	4	kW	69,661	69,115	70,246	69,156	17,415	17,279	17,562	17,289
Street Lights	15,512	15,539	kW	31,886	31,873	32,154	31,892	2	2	2	2
Sentinel Lights	189	189	kW	293	288	295	289	2	2	2	2
Unmetered Loads	531	534	kWh	2,451,442	2,413,614	2,472,045	2,415,039	4,617	4,520	4,655	4,523
Embedded Distributor - Hydro One, CND	2	2	kW	28,706	28,843	28,948	28,860	14,353	14,422	14,474	14,430
Embedded Distributor - Waterloo North, CN	1	1	kW	106,790	108,929	107,687	108,993	106,790	108,929	107,687	108,993
Embedded Distributor - Brantford Power, B	1	1	kW	95	95	95	96	95	95	95	96
Embedded Distributor - Hydro One #1, BCP	1	1	kW	31,822	30,827	32,090	30,845	31,822	30,827	32,090	30,845
Embedded Distributor - Hydro One #2, BCP	4	4	kW	126,065	139,060	127,124	139,142	31,516	34,765	31,781	34,786
Total	78,621	79,184									
	Varia	nce		Variance		Vari	ance	Varia	ince	Variance	
Residential	45	9	kWh	9,515,328		5,793,585		100		32	
General Service < 50 kW	92	2	kWh	4,951,330		3,405,966		314		59	
General Service > 50 to 999 kW	(17	7)	kW	(49,4	184)	(62,057)		(20	0)	(35)	
General Service > 1000 to 4999 kW	0		kW	(696)		(5,243)		(24)		(181)	
Large User	(1)	kW	(27,7	'80)	(31,374)		31,896		30,484	
Direct Market Participant	0		kW	(54	5)	(1,090)		(13	6)	(272)	
Street Lights	26	5	kW	(13	3)	(26	52)	(0)	(0)
Sentinel Lights	0		kW	(4)	(7	7)	(0)	(0)	
Unmetered Loads	3		kWh	(37,8	328)	(57,	005)	(97	7)	(13	3)
Embedded Distributor - Hydro One, CND	0	0 kW		13	7	(87)		68	3	(44	1)
Embedded Distributor - Waterloo North, CN	0		kW	2,1	39	1,306		2,139		1,306	
Embedded Distributor - Brantford Power, B	0		kW	1		0		1		0	
Embedded Distributor - Hydro One #1, BCP	0		kW	(99	5)	(1,2	245)	(995)		(1,2	45)
Embedded Distributor - Hydro One #2, BCP	0		kW	12,9	95	12,	018	3,2	49	3,00	04

4 2015 Actual to 2016 Actual - Energy+

Table 3-36 compares distribution revenues for the 2016 Actual to the 2015 Actual. Table 3-37 compares the billing determinants (customers/connections and volumes).

2016 Actual distribution revenue was \$33,278,012 or \$375,270 higher than the 2015 Actuals, principally explained by higher revenue in the GS >50 - 999 kW customer class, partially offset by lower distribution revenue in the Residential and GS<50 kW. Distribution revenue in the GS >50 - 999 kW customer class was \$701,920 higher, principally explained by: (i) recognition of an LRAM adjustment of approximately \$532,000 for this customer class based on conservation results attributable to this customer class; and (ii) an increase in volumes per customer. Distribution revenue in the Residential customer class was \$164,814 lower than the 2015 Actuals, principally explained by: (i) recognition of an LRAM adjustment of approximately \$175,000 decrease for this customer class based on conservation results attributable to this customer class; partially offset by an increase in the number of customers (639), although offset by lower annual consumption per customer.

	2015 Actual	2016 Actual	Difference \$	Difference %
Distribution Throughput Revenue				
Residential	16,660,342	16,495,528	(164,814)	-1.00%
General Service < 50 kW	4,171,987	4,059,569	(112,418)	-2.77%
General Service > 50 to 999 kW	7,544,907	8,246,828	701,921	8.51%
General Service > 1000 to 4999 kW	1,833,026	1,896,554	63,528	3.35%
Large User	1,228,321	1,173,640	(54,681)	-4.66%
Street Lights	1,069,866	1,042,981	(26,885)	-2.58%
Sentinel Lights	28,319	16,538	(11,781)	-71.23%
Unmetered Loads	56,137	64,700	8,563	13.24%
Embedded Distributor	260,109	281,674	21,565	7.66%
Other	49,728	-	(49,728)	N/A
Total	32,902,742	33,278,012	375,270	1.13%

Table 3-37: Comparison 2015 Actual to 2016 Actual

Billing Quantiites	Custon Connec		Units	Volu	me	Volume '	Weather mal	Annual Usage Per Customer / Connection		Annual Usage Per Customer / Connection Weather Normal	
Weather Normal Conversion Factor	,					1.0006	0.9868				
	2015 Actual	2016 Actual		2015 Actual	2016 Actual	2015 Actual	2016 Actual	2015 Actual	2016 Actual	2015 Actual	2016 Actual
Residential	55,922	56,561	kWh	486,541,296	479,944,152	486,828,639	473,614,056	8,700	8,485	8,706	8,374
General Service < 50 kW	6,149	6,241	kWh	203,100,575	212,807,519	203,220,523	210,000,750	33,029	34,100	33,049	33,650
General Service > 50 to 999 kW	808	806	kW	1,555,819	1,564,561	1,556,738	1,543,925	1,926	1,941	1,927	1,916
General Service > 1000 to 4999 kW	29	29	kW	581,153	631,904	581,496	623,570	20,040	22,172	20,052	21,880
Large User	2	2	kW	430,087	358,566	430,341	353,837	215,043	179,283	215,170	176,918
Direct Market Participant	4	4	kW	69,115	70,836	69,156	69,902	17,279	17,709	17,289	17,476
Street Lights	15,539	15,726	kW	31,873	31,300	31,892	30,887	2	2	2	2
Sentinel Lights	189	181	kW	288	417	289	411	2	2	2	2
Unmetered Loads	534	523	kWh	2,413,614	2,346,838	2,415,039	2,315,885	4,520	4,487	4,523	4,428
Embedded Distributor - Hydro One, CND	2	2	kW	28,843	27,466	28,860	27,103	14,422	13,733	14,430	13,552
Embedded Distributor - Waterloo North, CND	1	1	kW	108,929	121,168	108,993	119,570	108,929	121,168	108,993	119,570
Embedded Distributor - Brantford Power, BCP	1	1	kW	95	1,313	96	1,296	95	1,313	96	1,296
Embedded Distributor - Hydro One #1, BCP	1	1	kW	30,827	29,428	30,845	29,040	30,827	29,428	30,845	29,040
Embedded Distributor - Hydro One #2, BCP	4	4	kW	139,060	99,936	139,142	98,618	34,765	24,984	34,786	24,655
Total	79,184	80,081									
	Varia	nce		Varia	nce	Vari	ance	Varia	nce	Variance	
Residential	63	9	kWh	(6,597	.144)	(13,21	4,584)	(215)		(332)	
General Service < 50 kW	92	2	kWh	9,706	944	6.780.228		1,071		601	
General Service > 50 to 999 kW	(2)	kW	8,74	11	(12,813)		16		(11)	
General Service > 1000 to 4999 kW	(1)	kW	50,751		42,074		2,132		1,828	
Large User	0		kW	(71,520)		(76,504)		(35,7	760)	(38,252)	
Direct Market Participant	0		kW	1,72	21	746		43	0	186	
Street Lights	18	8	kW	(57	3)	(1,0	004)	(0)	(0)	
Sentinel Lights	(8)	kW	12	8	12	22	1		1	
Unmetered Loads	(11	L)	kWh	(66,7	76)	(99,	155)	(3:	3)	(94)	
Embedded Distributor - Hydro One, CND	0		kW	(1,378)		(1,757)		(689)		(878)	
Embedded Distributor - Waterloo North, CND	0		kW	12,239		10,577		12,239		10,577	
Embedded Distributor - Brantford Power, BCP	0		kW	1,2	18	1,200		1,218		1,200	
Embedded Distributor - Hydro One #1, BCP	0		kW	(1,39	99)	(1,8	305)	(1,399)		(1,8	05)
Embedded Distributor - Hydro One #2, BCP	0		kW	(39,1	24)	(40,	524)	(9,7	81)	(10,1	.31)

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2016 Actual to 2017 Actual

Table 3-38 compares distribution revenues for the 2017 Actual to the 2016 Actual. Table 3-39 compares the billing determinants (customers/connections and volumes).

2017 Actual distribution revenue was \$33,278,012 or \$60,401 lower than the 2016 Actuals, principally explained by higher revenue in the Residential customer class, offset by the lower revenue in the GS >50 - 999 kW customer class. Distribution revenue in the Residential customer class was \$468,867 higher than the 2016 Actuals. As previously explained, the 2016 distribution revenue in the Residential customer class included the recognition of an LRAM adjustment related to prior years of approximately \$175,000. Excluding the LRAM adjustment from the 2016 Actuals, distribution revenue for the Residential customer increased by approximately \$294,000, principally explained by an increase in the number of customers (711), partially offset by lower annual consumption per customer. Distribution revenue in the GS > 50-999 kW customer class was \$455,796 lower than 2016 Actuals. As previously explained, the 2016 distribution revenue in the GS > 50-999 kW customer class included the recognition of an LRAM adjustment related to prior years of approximately \$532,000. Excluding the LRAM adjustment from the 2016 Actuals, distribution revenue for the GS 50-999 kW customer class actually increased by approximately \$76,000, principally explained by the IRM increase as the number of customers and volume decreased in this customer class.

Table 3-38: Comparison 2016 Actual to 2017 Actual

	2016 Actual	2017 Actual	Difference \$	Difference %
Distribution Throughput Revenue				
Residential	16,495,528	16,964,395	468,867	2.76%
General Service < 50 kW	4,059,569	4,081,599	22,031	0.54%
General Service > 50 to 999 kW	8,246,828	7,791,032	(455,796)	-5.85%
General Service > 1000 to 4999 kW	1,896,554	1,792,008	(104,546)	-5.83%
Large User	1,173,640	1,288,466	114,826	8.91%
Street Lights	1,042,981	956,389	(86,592)	-9.05%
Sentinel Lights	16,538	14,535	(2,003)	-13.78%
Unmetered Loads	64,700	64,855	155	0.24%
Embedded Distributor	281,674	264,331	(17,343)	-6.56%
Total	33,278,012	33,217,611	(60,401)	-0.18%

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Table 3-39: Comparison 2016 Actual to 2017 Actual

Billing Quantiites	Custon Connec		Units	Volu	me	Volume Weather Normal Connection		Annual Usage Per Customer / Connection Weather Normal			
Weather Normal Conversion Factor						0.9868	1.0069				
	2016 Actual	2017 Actual		2016 Actual	2017 Actual	2016 Actual	2017 Actual	2016 Actual	2017 Actual	2016 Actual	2017 Actual
Residential	56.561	57.272	kWh	479.944.152	453.855.075	473,614,056	457.000.716	8,485	7,925	8,374	7,980
General Service < 50 kW	6,241	6,298	kWh	212,807,519	189,005,848	210,000,750	190,315,835	34,100	30,013	33,650	30,221
General Service > 50 to 999 kW	806	796	kW	1,564,561	1,518,753	1,543,925	1,529,280	1,941	1,908	1,916	1,921
General Service > 1000 to 4999 kW	29	28	kW	631,904	574,484	623,570	578.466	22,172	20,517	21,880	20,660
Large User	2	2	kW	358,566	348,189	353,837	350,602	179,283	174,095	176,918	175,301
Direct Market Participant	4	4	kW	70,836	67,942	69,902	68,413	17,709	16,985	17,476	17,103
Street Lights	15,726	16,024	kW	31,300	24,144	30,887	24,311	2	2	2	2
Sentinel Lights	181	168	kW	417	343	411	345	2	2	2	2
Unmetered Loads	523	499	kWh	2,346,838	2,273,988	2,315,885	2,289,749	4,487	4,557	4,428	4,589
Embedded Distributor - Hydro One, CND	2	2	kW	27,466	24,387	27,103	24,556	13,733	12,194	13,552	12,278
Embedded Distributor - Waterloo North, CND	1	1	kW	121,168	114,657	119,570	115,452	121,168	114,657	119,570	115,452
Embedded Distributor - Brantford Power, BCP	1	1	kW	1,313	1,075	1,296	1,082	1,313	1,075	1,296	1,082
Embedded Distributor - Hydro One #1, BCP	1	1	kW	29,428	29,011	29,040	29,212	29,428	29,011	29,040	29,212
Embedded Distributor - Hydro One #2, BCP	4	4	kW	99,936	102,973	98,618	103,687	24,984	25,743	24,655	25,922
Total	80,081	81,099									
	Varia	nce		Variance		Variance		Variance		Variance	
Residential	71	1	kWh	(26,089,077)		(16,613,340)		(561)		(394)	
General Service < 50 kW	57	7	kWh	(23,803	l,671)	(19,68	4,915)	(4,0	187)	(3,429)	
General Service > 50 to 999 kW	(10	0)	kW	(45,8	307)	(14,646)		(33)		6	
General Service > 1000 to 4999 kW	(1)	kW	(57,420)		(45,104)		(1,655)		(1,220)	
Large User	0		kW	(10,3	377)	(3,235)		(5,189)		(1,617)	
Direct Market Participant	0		kW	(2,8	95)	(1,489)		(724)		(372)	
Street Lights	29	8	kW	(7,1	56)	(6,5	576)	(0))	(0)	
Sentinel Lights	(13	3)	kW	(74	1)	(6	6)	(0))	(0)
Unmetered Loads	(24	1)	kWh	(72,8	350)	(26,	136)	7(0	16	1
Embedded Distributor - Hydro One, CND	0		kW	(3,0	78)	(2,547)		(1,5	39)	(1,2	73)
Embedded Distributor - Waterloo North, CND	0		kW	(6,5	11)	(4,118)		(6,5	11)	(4,1	18)
Embedded Distributor - Brantford Power, BCP	0		kW	(23	8)	(214)		(238)		(214)	
Embedded Distributor - Hydro One #1, BCP	0		kW	(41	7)	17	72	(41	.7)	17	2
Embedded Distributor - Hydro One #2, BCP	0		kW	3,0	36	5,0	068	75	59	1,20	57

2017 Actual to 2018 Bridge

Table 3-40 compares distribution revenues for the 2017 Actual to the 2018 Bridge. Table 3-41 compares the billing determinants (customers/connections and volumes).

2018 Bridge Year distribution revenue is projected to be was \$33,528,781 or \$311,170 or 0.93% higher than the 2017 Actuals. The 2018 Bridge Year distribution revenue reflects a 0.9% IRM increase effective May 1, 2018.

Energy+ would note that for purposes of the 2018 Bridge Year and 2019 Test Year, the transformer allowance has been illustrated separately in the distribution revenue tables presented. The transformer allowance in the prior years' actuals is reflected in the distribution revenue for the applicable rate classes (which would be the GS>50-999 and GS 1,000 – 4,999 customer classes). Total distribution revenue for the GS > 50-999 kW, and GS 1,000- 4,999 customer classes, plus the transformer allowance is projected to be \$131,721 or 1.4% higher than 2017 Actuals principally explained by: (i) IRM rate increase of 0.9% effective May 1, 2018;

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and (ii) increase in the annual usage per customer, principally in the GS 50-999 kW customer class.

Distribution revenue in the Residential customer class is projected to increase by \$400,181, explained by: (i) the IRM rate increase of 0.9% effective May 1, 2018; (ii) increase in the number of customers (698); and an increase in the annual usage per customer.

Distribution revenue for the Large User class is forecast to decrease due to lower volumes.

Table 3-40: Comparison 2018 Bridge Year to 2017 Actuals

	2017	2018	Difference	Difference
	Actual	Bridge	\$	%
Distribution Throughput Revenue				
Residential	16,964,395	17,364,576	400,181	2.30%
General Service < 50 kW	4,081,599	4,098,914	17,315	0.42%
General Service > 50 to 999 kW	7,791,032	7,665,822	(125,210)	-1.63%
General Service > 1000 to 4999 kW	1,792,008	2,560,515	768,507	30.01%
Large User	1,288,466	1,044,401	(244,065)	-23.37%
Street Lights	956,389	826,624	(129,765)	-15.70%
Sentinel Lights	14,535	14,573	37	0.26%
Unmetered Loads	64,855	64,042	(813)	-1.27%
Embedded Distributor	264,331	400,890	136,559	34.06%
Transformer Allowance	-	(511,575)	(511,575)	100.00%
Total	33,217,611	33,528,781	311,170	0.93%

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Table 3-41: Comparison 2018 Bridge Year to 2017 Actual

Billing Quantiites	Custon Connec	•	Units	Units Volume			Weather mal	Annual U Custo Conne	mer/	Annual Usage Per Customer / Connection Weathe Normal		
Weather Normal Conversion Factor	•			,		1.0069 1.0000						
	2017	2018		2017	2018	2017	2018	2017	2018	2017	2018	
	Actual	Bridge		Actual	Bridge	Actual	Bridge	Actual	Bridge	Actual	Bridge	
Residential	57,272	57,970	kWh	453,855,075	465,920,846	457,000,716	465,920,846	7,925	8,037	7,980	8,037	
General Service < 50 kW	6,298	6,374	kWh	189,005,848	192,724,357	190,315,835	192,724,357	30,013	30,237	30,221	30,237	
General Service > 50 to 999 kW	796	798	kW	1,518,753	1,559,982	1,529,280	1,559,982	1,908	1,954	1,921	1,954	
General Service > 1000 to 4999 kW	28	27	kW	574,484	556,266	578,466	556,266	20,517	20,233	20,660	20,233	
Large User	2	2	kW	348,189	332,575	350,602	332,575	174,095	166,287	175,301	166,287	
Direct Market Participant	4	4	kW	67,942	67,942	68,413	67,942	16,985	16,985	17,103	16,985	
Street Lights	16,024	16,141	kW	24,144	19,227	24,311	19,227	2	1	2	1	
Sentinel Lights	168	168	kW	343	343	345	343	2	2	2	2	
Unmetered Loads	499	499	kWh	2,273,988	2,273,988	2,289,749	2,273,988	4,557	4,557	4,589	4,557	
Embedded Distributor - Hydro One, CND	2	2	kW	24,387	24,387	24,556	24,387	12,194	12,194	12,278	12,194	
Embedded Distributor - Waterloo North, CND	1	1	kW	114,657	114,657	115,452	114,657	114,657	114,657	115,452	114,657	
Embedded Distributor - Brantford Power, BCP	1	1	kW	1,075	1,075	1,082	1,075	1,075	1,075	1,082	1,075	
Embedded Distributor - Hydro One #1, BCP	1	1	kW	29,011	29,995	29,212	29,995	29,011	29,995	29,212	29,995	
Embedded Distributor - Hydro One #2, BCP	4	4	kW	102,973	102,973	103,687	102,973	25,743	25,743	25,922	25,743	
Total	81,099	81,993										
	Varia	nce		Varia	nce	Vari	ance	Variance		Varia	nce	
Residential	69	9	kWh	12,065	5,771	8,920),130	11	3	58	3	
General Service < 50 kW	76	5	kWh	3,718	,509	2,408	3,522	22	5	17	7	
General Service > 50 to 999 kW	2		kW	41,2	29	30,	702	4	5	33	}	
General Service > 1000 to 4999 kW	(1)	kW	(18,2	19)	(22,	201)	(28	5)	(42	7)	
Large User	0		kW	(15,6	514)	(18,	028)	(7,8	07)	(9,0:	14)	
Direct Market Participant	0		kW	0	1	(47	71)	C		(11	8)	
Street Lights	11	7	kW	(4,9:	17)	(5,0	084)	(0)	(0)	
Sentinel Lights	0		kW	0		(2	2)	C		(0)	
Unmetered Loads	0		kWh	0		(15,	761)	C		(32	2)	
Embedded Distributor - Hydro One, CND	0		kW	0		(16	59)	C		(85	j)	
Embedded Distributor - Waterloo North, CND	0		kW	0		(79	95)	C		(79	5)	
Embedded Distributor - Brantford Power, BCP	0		kW	0		(7	7)	C		(7)	
Embedded Distributor - Hydro One #1, BCP	0		kW	98	4	78	33	98	4	78	3	
Embedded Distributor - Hydro One #2, BCP	0		kW	0		(7:	14)	C		(17	8)	

2018 Bridge to 2019 Test

Table 3-42 compares distribution revenues for the 2019 Test Year at existing 2018 rates and 2018 Bridge Year. Table 3-43 compares distribution revenues for the 2019 Test Year at proposed rates and the 2018 Bridge Year. Table 3-44 compares the billing determinants (customers/connections and volumes).

Table 3-42 illustrates the impact of volume changes between the 2018 Bridge Year and 2019 Test Year, since the distribution rates are held constant. The Residential customer class is showing the largest impact from volumes of \$185,748 principally explained by an increase in the number of customers (698).

The 2019 Test Year distribution revenue reflects the proposed distribution rates in this Application.

Table 3-42: Comparison 2019 Test Year @ Existing Rates vs. 2018 Bridge Year

	2018 Bridge	2019 Test @ Existing Rates	Difference \$	Difference %
Distribution Throughput Revenue				
Residential	17,364,576	17,550,323	185,748	1.06%
General Service < 50 kW	4,098,914	4,151,920	53,006	1.28%
General Service > 50 to 999 kW	7,665,822	7,653,216	(12,606)	-0.16%
General Service > 1000 to 4999 kW	2,560,515	2,503,247	(57,268)	-2.29%
Large User	1,044,401	1,042,118	(2,283)	-0.22%
Street Lights	826,624	758,180	(68,444)	-9.03%
Sentinel Lights	14,573	14,573	ı	0.00%
Unmetered Loads	64,042	64,042	-	0.00%
Embedded Distributor	400,890	400,890	-	0.00%
Transformer Allowance	(511,575)	(511,575)	-	0.00%
Total	33,528,781	33,626,933	98,152	0.29%

Table 3-43: Comparison 2019 Test Year @ Proposed Rates vs. 2018 Bridge Year

	2018 Bridge	2019 Test @ Proposed Rates	Difference \$	Difference %
Distribution Throughput Revenue				
Residential	17,364,576	19,242,381	1,877,806	10.81%
General Service < 50 kW	4,098,914	4,342,482	243,568	5.94%
General Service > 50 to 999 kW	7,665,822	7,526,897	(138,925)	-1.81%
General Service > 1000 to 4999 kW	2,560,515	2,602,122	41,607	1.62%
Large User	1,044,401	1,089,949	45,547	4.36%
Street Lights	826,624	528,827	(297,796)	-36.03%
Sentinel Lights	14,573	20,346	5,774	39.62%
Unmetered Loads	64,042	67,090	3,048	4.76%
Embedded Distributor	400,890	261,791	(139,099)	-34.70%
Transformer Allowance	(511,575)	(511,575)	-	0.00%
Total	33,528,781	35,170,311	1,641,530	4.90%

Table 3-44: Comparison 2018 Bridge to 2019 Test

Billing Quantiites	Custon Conne		Units	Volu	me	Volume Nor		Annual U Custor Conne	mer/	Annual Usage Pe Customer / Connection Weath Normal	
Weather Normal Conversion Factor	•					1.0000 1.0000					
	2018 Bridge	2019 Test		2018 Bridge	2019 Test	2018 Bridge	2019 Test	2018 Bridge	2019 Test	2018 Bridge	2019 Test
Residential	57,970	58.677	kWh	465,920,846		465,920,846	466.068.279	8,037	7,943	8,037	7,943
General Service < 50 kW	6,374	6,451	kWh	192,724,357			195,276,256	30,237	30.272	30,237	30,272
General Service > 50 to 999 kW	798	800	kW	1.559.982	1,556,242	1,559,982	1,556,242	1,954	1.944	1,954	1,944
General Service > 1000 to 4999 kW	27	27	kW	556,266	542,178	556,266	542,178	20,233	20,084	20,233	20.084
Large User	2	2	kW	332,575	382.038	332,575	382.038	166,287	191,019	166,287	191,019
Direct Market Participant	4	4	kW	67,942	67,942	67,942	67,942	16,985	16,985	16,985	16,985
Street Lights	16.141	16.260	kW	19.227	15,467	19.227	15.467	1	1	1	1
Sentinel Lights	168	168	kW	343	343	343	343	2	2	2	2
Unmetered Loads	499	499	kWh	2,273,988	2,273,988	2,273,988	2.273.988	4.557	4.557	4,557	4.557
Embedded Distributor - Hydro One, CND	2	2	kW	24.387	, ., , .,		24.387	12.194	12.194	12,194	12.194
Embedded Distributor - Waterloo North, CND	1	1	kW	114,657	114.657	24,387 114,657	114,657	114.657	114.657	114.657	114.657
Embedded Distributor - Brantford Power, BCP	1	1	kW	1.075	1.075	1,075	1.075	1,075	1,075	1,075	1,075
Embedded Distributor - Hydro One #1, BCP	1	1	kW	29,995	29,995	29,995	29,995	29,995	29,995	29,995	29,995
Embedded Distributor - Hydro One #2, BCP	4	4	kW	102,973	102,973	102,973	102,973	25,743	25,743	25,743	25,743
Total	81,993	82.897					,				
	Varia	ince		Varia	Variance		ance	Variance		Varia	ince
Residential	70	7	kWh	147,4	433	147,433		(94)		(94	4)
General Service < 50 kW	77	7	kWh	2,551	,900	2,551	,900	34	4	34	4
General Service > 50 to 999 kW	2		kW	(3,74	40)	(3,7	(40)	(10	0)	(10	0)
General Service > 1000 to 4999 kW	(0)	kW	(14,0	187)	(14,	087)	(14	.9)	(14	19)
Large User	0)	kW	49,4	63	49,	463	24,7	732	24,7	732
Direct Market Participant	0)	kW	0		()	0)	0	,
Street Lights	11	.8	kW	(3,70	50)	(3,7	'60)	(0)	(0	J)
Sentinel Lights	0)	kW	0		()	0		0	,
Unmetered Loads	0)	kWh	0		()	0)	0	,
Embedded Distributor - Hydro One, CND	0)	kW	0		()	0)	0	,
Embedded Distributor - Waterloo North, CND	0	1	kW	0		()	0	1	0	,
Embedded Distributor - Brantford Power, BCP	0		kW	0		()	0		0	,
Embedded Distributor - Hydro One #1, BCP	0		kW	0		()	0		0	,
Embedded Distributor - Hydro One #2, BCP	0		kW	0		()	0		0)

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3.4 OTHER REVENUE

3.4.1 Other Revenue Overview

Other Distribution revenues include such items as:

Specific Service Charges

Late Payment Charges

Other Distribution Revenues

Other Income and Expenses

Other revenues are deducted from Energy+'s proposed revenue requirement. Further details on the derivation of the Revenue Requirement are presented at Exhibit 6.

A detailed breakdown by USoA account is shown below in Table 3-45: OEB Appendix 2-H Other Operating Revenue. A year over year variance analysis has been provided based on Energy+'s materiality of \$175,000; the materiality calculation provided earlier in Exhibit 1 of this Application. The 2014 Board Approved Proxy other revenue amount was determined on a proxy basis as described at the beginning of this Exhibit.

Energy+ does not have any discrete customer groups that may be materially impacted by changes to other rates and charges.

Pursuant to the *Report of the Board Wireline Pole Attachment Charges* (EB-2015-0304) issued March 22, 2018, Energy+ acknowledges the change in the pole attachment charge to \$43.63 effective January 1, 2019. Energy+ intends to increase the pole rental revenue included in this Application as part of the Application process. As the OEB Report was issued late into Energy+'s rate application process, there was insufficient time to update the various models prior to the filing date. In addition, Energy+ would note that it is subject to pole attachment charges from telecommunication companies, which are included in OM&A expenditures. Energy+ expects that the telecommunication companies may in fact increase the pole attachment charges that it charges to Energy+ as a result. Energy+ would also expect to address this as part of the Application process.

Table 3-45: OEB Appendix 2-H Other Operating Revenue

		2014							
		Board							
		Approved	2014	2014	2015	2016	2017	2018	2019
USoA#	USoA Description	Proxy	Actual	Actual	Actual	Actual	Forecast	Bridge Year	Test Year
000/111	Reporting Basis	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
4235	Specific Service Charges	675,814	751,308	751,308	728,545	809,688	768,275	638,145	637,145
4225	Late Payment Charges	237,000	192,312	192,312	188,882	225,148	192,353	189,000	189,000
4082	Retail Services Revenue	36,000	34,289	34,289	30,850	32,123	28,424	32,400	31,200
4084	Service Tax Requests	960	747	747	586	731	342	780	660
4086	SSS Administration Revenue	177,810	149,654	149,654	181,110	185,011	191,007	185,283	189,732
4210	Rent from Electric Property	250,226	252,210	252,210	256,020	270,751	257,615	268,896	268,896
4215	Other Utility Operating Income	-							
4220	Other Electric Revenues	123,946	212,645	212,645	-	-	-	-	-
4245	Government Assistance Directly Credited to Income	-	-	5,213	-	146,349	189,000	203,765	234,498
4305	Regulatory Debits	-	(64,320)	(64,320)	-	-	(432,123)	(726,000)	-
4310	Regulatory Credits	-	(43,720)	(107,369)	(647,982)	133,064	465,924	300,000	-
4320	Expenses of Electric Plant Leased to Others	-	(26)	(26)	-	-	-	-	-
4325	Revenues from Merchandise, Jobbing, Etc.	24,000	36,994	36,994	26,465	23,905	24,000	33,880	33,880
4355	Gain on Disposition of Utility and Other Property	23,000	57,603	57,603	37,760	6,012	-	618,000	-
4360	Loss on Disposition of Utility and Other Property	-	-	(338,222)	(337,290)	(275,018)	(465,924)	(300,000)	(300,000)
4375	Revenues from Non-Utility Operations	26,400	497,153	497,153	1,678,127	698,393	630,871	626,780	617,780
4380	Expenses of Non-Utility Operations	-	(327,238)	(327,238)	(1,339,778)	(550,033)	(350,000)	(325,000)	(330,000)
4390	Miscellaneous Non-Operating Income	147,606	142,762	142,762	183,004	77,718	74,236	79,071	82,200
4398	Foreign Exchange Gains and Losses, Including Amortization	-	(17,308)	(17,308)	(2,646)	17,161	-	-	-
4405	Interest and Dividend Income	96,820	95,293	95,293	599,903	226,616	115,000	-	-
Specific Se	ervice Charges	\$ 675,814	\$ 751,308	\$ 751,308	\$ 728,545	\$ 809,688	\$ 768,275	\$ 638,145	\$ 637,145
Late Paym	ent Charges	\$ 237,000	\$ 192,312	\$ 192,312	\$ 188,882	\$ 225,148	\$ 192,353	\$ 189,000	\$ 189,000
Other Ope	rating Revenues	\$ 588,943	\$ 649,545	\$ 654,758	\$ 468,566	\$ 634,964	\$ 666,388	\$ 691,124	\$ 724,986
Other Inco	me or Deductions	\$ 317,826	\$ 377,194	\$ (24,677)	\$ 197,564	\$ 357,818	\$ 61,984	\$ 306,731	\$ 103,860
Total		\$ 1,819,584	\$ 1,970,360	\$ 1,573,702	\$ 1,583,557	\$ 2,027,617	\$ 1,689,000	\$ 1,825,000	\$ 1,654,991

Account 4235 - Specific Service Charges							
	2014 Actual	2014 Actual	2015 Actual ²	2016 Actual	2017 Forecast	Bridge Year	Test Year
·	2014	2014	2015	2016	2017	2018	2019
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Change of Occupancy Charges	263,574	263,575	275,250	277,455	276,870	236,000	238,000
Document Charges	260,767	260,767	257,415	411,071	341,335	281,000	278,000
Collection/Reconnection Charges	136,690	136,690	121,631	31,265	31,240	15,555	15,555
Legal Letter Revenue	899	899	765	375	405	420	420
Meter Related Charges	29,880	29,880	31,740	2,430	390	360	360
Returned Cheques Revenue	9,738	9,738	8,130	7,887	7,359	8,400	8,400
FIT/Microfit Service Charges	5,721	5,721	-		110,646	96,410	96,410
Miscellaneous charges	44,038	44,037	33,615	79,205	-	-	-
Total	\$ 751 308	\$ 751 308	\$ 728.545	\$ 200,622	\$ 768.245	\$ 638.145	\$ 637.145

Other Inc	ome or Deductions							
		2014 Actual	2014 Actual	2015 Actual ²	2016 Actual	2017 Forecast	Bridge Year	Test Year
		2014	2014	2015	2016	2017	2018	2019
		CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
4305	Regulatory Debits	(64,320)	(64,320)	-	-	(432,123)	(726,000)	-
4310	Regulatory Credits	(43,720)	(107,369)	(647,982)	133,064	465,924	300,000	-
4320	Expenses of Electric Plant Leased to Others	(26)	(26)	-	-	-	-	-
4325	Revenues from Merchandise, Jobbing, Etc.	36,994	36,994	26,465	23,905	24,000	23,880	33,880
4355	Gain on Disposition of Utility and Other Property	57,603	57,603	37,760	6,012	-	618,000	-
4360	Loss on Disposition of Utility and Other Property	-	(338,222)	(337,290)	(275,018)	(465,924)	(300,000)	(300,000)
4375	Revenues from Non-Utility Operations	497,153	497,153	1,678,127	698,393	630,871	626,780	617,780
4380	Expenses of Non-Utility Operations	(327,238)	(327,238)	(1,339,778)	(550,033)	(350,000)	(325,000)	(330,000)
4390	Miscellaneous Non-Operating Income	142,762	142,762	183,004	77,718	74,236	79,071	82,200
4398	Foreign Exchange Gains and Losses, Including Amortization	(17,308)	(17,308)	(2,646)	17,161	-	-	-
4405	Interest and Dividend Income	95,293	95,293	599,903	226,616	115,000	-	-
Total		\$ 377,194	-\$ 24,677	\$ 197,564	\$ 357,818	\$ 61,984	\$ 296,731	\$ 103,860

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Table 3-45: OEB Appendix 2-H Other Operating Revenue (Continued)

	20	14 Actual	2	014 Actual	20	15 Actual ²	2016 Actua	ı	2017 Forecast	Bridge Year	Te	st Year
		2014		2014		2015	2016	T	2017	2018		2019
Reporting Basis		CGAAP		MIFRS		MIFRS	MIFRS		-	MIFRS	ı	WIFRS
Pole and Ducts Rental		239,710		239,710		243,020	257,75	1	244,615	255,900		255,9
Rental Income		12,500		12,500		13,000	13,00	_	13,000	12,996		12,9
Total	\$	252,210	\$	252,210	\$	256,020	\$ 270,75	_	\$ 257,615	\$ 268,896	\$	268,8
Account 4375 - Revenues from Non-Utility Operations												
	20	14 Actual	2	015 Actual	20	15 Actual ²	2016 Actua	ı .	2017 Forecast	Bridge Year	Te	st Yea
		2014		2014		2015	2016		2017	2018		2019
Reporting Basis		CGAAP		MIFRS		MIFRS	MIFRS		MIFRS	MIFRS	N	MIFRS
Streetlighting Service Billings		437,951		437,951		380,012	262,52	6	350,000	325,000		330,0
Water and Sewer Billing Admin Fees				-		226,492	247,78	9	276,000	278,400		283,2
CDM Program Revenue		3,227		3,227		1,033,145	171,82	2	-	1		-
Connection Impact Assessment		24,720		24,720		-	-		-	20,800		2,0
Miscellaneous		31,255		31,255		38,478	16,25	6	4,871	2,580		2,5
Total	\$	497,153	\$	497,153	\$	1,678,127	\$ 698,39	3 \$	\$ 630,871	\$ 626,780	\$	617,7
Account 4380 - Expenses from Non-Utility Operations								_				
	20	14 Actual	2	014 Actual	20	15 Actual ²	2016 Actua	<u> </u>	2017 Forecast	Bridge Year		st Yea
		2014		2014		2015	2016		2017	2018		2019
Reporting Basis	- 1	CGAAP		MIFRS		MIFRS	MIFRS		MIFRS	MIFRS	N	MIFRS
Streetlighting Service Billings		(437,951)		(437,951)		(380,012)	(262,52	6)	(350,000)	(325,000)		(330,0
Water and Sewer Billing Admin Fees						(226,492)	(247,78	9)				
CDM Program Revenue and (Expenses)		110,713		110,713		(733,145)		_				
Miscellaneous		-		-		(129)	(39,71	8)				
Total	\$	(327,238)	\$	(327,238)	\$	(1,339,778)	\$ (550,03	3) (\$ (350,000)	\$ (325,000)	\$	(330,0
Account 4390 - Miscellaneous Non-Operating Income												
	20	14 Actual	2	014 Actual	20	15 Actual ²	2016 Actua	ı	2017 Forecast	Bridge Year	Te	st Yea
		2014		2014		2015	2016		2017	2018		2019
Reporting Basis		CGAAP		MIFRS		MIFRS	MIFRS		MIFRS	MIFRS	N	MIFRS
Discounts Taken		21,260		21,260		55,127	14,86	7	13,236	9,600		10,2
Sale of Scrap Material		55,050		55,050		84,086	62,53	0	60,000	66,800		70,0
Other		66,452		66,452		43,791	32	1	1,000	2,671		2,0
Total	\$	142,762	\$	142,762	\$	183,004	\$ 77,71	8 5	\$ 74,236	\$ 79,071	\$	82,
Account 4405 - Interest and Dividend Income												
	20	14 Actual	2	015 Actual	20	15 Actual ²	2016 Actua	T.	2017 Forecast	Bridge Year	Te	st Yea
	20	14 Actual 2014	2	015 Actual 2014	20	115 Actual ² 2015	2016 Actua 2016	7	2017 Forecast 2017	Bridge Year 2018	Te	est Yea 2019
			2		20			+				2019
Account 4405 - Interest and Dividend Income		2014	2	2014	20	2015	2016	ł	2017	2018		2019 WIFRS
Account 4405 - Interest and Dividend Income		2014 CGAAP	2	2014 MIFRS	20	2015 MIFRS	2016 MIFRS	ł	2017 MIFRS	2018 MIFRS		2019 WIFRS
Account 4405 - Interest and Dividend Income Reporting Basis Investment Income		2014 CGAAP	2	2014 MIFRS	20	2015 MIFRS 135,614	2016 MIFRS	4	2017 MIFRS	2018 MIFRS		2019 MIFRS
Account 4405 - Interest and Dividend Income Reporting Basis Investment Income Intercompany interest (Loan to former Brant County Power Inc.)		2014 CGAAP 137,303	2	2014 MIFRS 137,303	20	2015 MIFRS 135,614 389,351	2016 MIFRS 97,37	4	2017 MIFRS 115,000	2018 MIFRS		
Account 4405 - Interest and Dividend Income Reporting Basis Investment Income Intercompany interest (Loan to former Brant County Power Inc.) OEB Carrying Charges CR		2014 CGAAP 137,303 - 43,179	2	2014 MIFRS 137,303 - 43,179	20	2015 MIFRS 135,614 389,351 69,119	2016 MIFRS 97,37	4	2017 MIFRS 115,000 - -	2018 MIFRS		2019 MIFRS

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Table 3:46: Year over Year Variance in Other Revenue

Revenue. Each variance above the materiality threshold of \$175,000 as calculated is highlighted

Table 3-46 below provides the variances on Other Revenue included in Energy+'s Operating

3.4.2 Variance Analysis of Other Revenue

in grey and an explanation of the variance is provided below.

				Year ove	er Year Vari	ance		
USoA#	USoA Description	2014 vs BA 2014	2014 MIFRS vs CGAAP 2014	2015 vs 2014	2016 vs 2015	2017 vs 2016	2018 vs 2017	2010 vs 2019
030A #	Reporting Basis	CGAAP	CGAAF 2014	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
4235	Specific Service Charges	75.494	_	(22,763)	81,143	(41,413)	(130,130)	(1,000)
4235	Late Payment Charges	(44,688)		(3,430)	36,266	(32,795)	(3,353)	(1,000)
4082	Retail Services Revenue	(1,711)		(3,430)	1,273	(3,699)	3,976	(1,200)
4082	Service Tax Requests	(213)	-	(161)	1,273	(389)	438	(1,200)
4084	SSS Administration Revenue	(28,156)		31,456	3,901	5,996		` '
4086	Rent from Electric Property	1,983	-	31,456	14,731	(13,136)	(5,724) 11,281	4,449
4210	Other Utility Operating Income	1,703	-	3,010	14,731	(13,130)	· ·	
4215	Other Electric Revenues	88,699	 	(212,645)	-	_	-	-
4220	Government Assistance Directly Credited to Income	00,055	5,213	(5,213)	146,349	42,651	14,765	30,733
4305	Regulatory Debits	(64,320)		64,320	140,343	(432,123)	(293,877)	726,000
4305	Regulatory Credits	(43,720)		(540,613)	781,046	332,860	(165,924)	(300,000)
4310	Expenses of Electric Plant Leased to Others	(43,720)	. , ,	(540,613)	/01,040	332,000	(103,324)	(300,000)
4325	Revenues from Merchandise, Jobbing, Etc.	12,994	-	(10,529)	(2,561)	95	9.880	_
4325	Gain on Disposition of Utility and Other Property	34,603	 	(10,529)	(31,747)		618,000	(618,000)
4355	Loss on Disposition of Utility and Other Property	34,003	(338,222)	932	62,271	(190,906)		(010,000)
4300	Revenues from Non-Utility Operations	470,753	(330,222)	1,180,974	(979,734)	. , ,	(4,091)	(9,000)
43/5	Expenses of Non-Utility Operations	(327,238)	-	(1,012,540)	789,745	200,033	25,000	(5,000)
4390	Miscellaneous Non-Operating Income	(4,844)	-	40,242	(105,286)		4,835	3,129
4398	Foreign Exchange Gains and Losses, Including Amortization	(17,308)		14,662	19,806	(17,161)		3,129
4405	Interest and Dividend Income	(1,527)		504,610	(373,287)			-
4403	interest and Dividend income	(1,327)		304,010	(3/3,207)	(111,010)	(113,000)	<u> </u>
Specific Serv	Specific Service Charges		\$ -	\$ (22,763)	\$ 81,143	\$ (41,413)	\$ (130,130)	\$ (1,000)
Late Paymen	•	\$ 75,494 \$ (44,688)			\$ 36,266			
	Other Operating Revenues		\$ 5,213		\$ 166,399		\$ 24,736	
	e or Deductions	\$ 59,368		, ,	\$ 160,253			\$ (202,871)
Total		\$ 150,776	\$ (396,658)	\$ 9,855	\$ 444,061	\$ (338,618)	\$ 136,000	\$ (170,009

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2014 Board Approved Proxy Comparison to 2014 Actual – Other Operating Revenue

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Table 3-47 below summarizes the variance in Other Operating Revenue between the 2014 Board Approved Proxy and 2014 Actual.

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Table 3-47: Other Operating Revenue – 2014 Board Approved and 2014 Actual (CGAAP)

Other Distribution Revenue	014 Board Approved Proxy	20	014 Actual	Di	fference \$	Difference %
Specific Service Charges	\$ 675,814	\$	751,308	\$	75,494	11%
Late Payment Charges	\$ 237,000	\$	192,312	\$	(44,688)	-19%
Other Operating Revenues	\$ 588,943	\$	649,545	\$	60,602	10%
Other Income or Deductions	\$ 317,826	\$	377,194	\$	59,368	19%
Total	\$ 1,819,584	\$	1,970,360	\$	150,776	8%

 2014 Actual Other Operating Revenue was \$1,970,360 or \$150,776 higher than the 2014 Board Approved Proxy of \$1,819,584. Overall this was not a material variance. The largest variance in the 2014 Actual was with respect to Accounts 4375 Revenues from Non-Utility Operations and Account 4380 Expenses of Non-Utility Operations. The net of these two accounts, which are related, was \$143,515. The variance is principally attributable to: (i) Streetlight Services provided by the former CND. The 2014 Board Approved amount for the former CND was recorded as a net amount for Streetlight Services, whereas the actuals were reported as Revenues and Expenses.; and (ii) Conservation and Demand management expenditures recorded by the former BCP in 2014 prior to the acquisition by the former CND; the revenue offset was recorded by the former BCP in 2013.

For comparative purposes, and as a result of the restatement of 2014 Actuals to MIFRS as at the transition date, Energy+ has compared the 2014 Actual Other Operating Revenue under CGAAP to the 2014 Actual Other Operating Revenue under MIFRS in Table 3-48 below.

2014 Actual CGAAP vs. 2014 Actual MIFRS

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Table 3-48: Other Operating Revenue – 2014 Actual (CGAAP) vs. 2014 Actual (MIFRS)

Operating Revenue	_	2014 Actual 2014 Actual (CGAAP) (MIFRS)			Di	fference
Specific Service Charges	\$	751,308	\$	751,308	\$	-
Late Payment Charges	\$	192,312	\$	192,312	\$	-
Other Operating Revenues	\$	649,545	\$	654,758	\$	5,213
Other Income or Deductions	\$	377,194	\$	(24,677)	\$	(401,871)
Total	\$	1,970,360	\$	1,573,702	\$	(396,658)

The difference between CGAAP and MIFRS was principally explained by a MIFRS adjustment to Account 4360 Loss on Disposition of Utility property of \$338,222 as a result of the de-recognition of assets removed from service before the end of their useful life, resulting in a loss. The offsetting regulatory credit for this adjustment was not recorded until 2016. Please refer to Exhibit 9 for further information with respect to Account 1575 IFRS-CGAAP Transitional PP&E Amounts.

2015 Actual Comparison to 2014 Actual – Other Operating Revenue

Table 3-49 below summarizes the variance in Other Operating Revenue between the 2015 Actuals and 2014 Actuals on a MIFRS basis.

Table 3-49: Other Operating Revenue – 2015 Actual and 2014 Actual (MIFRS)

					Di	ifference	Difference
Other Distribution Revenue	20	014 Actual	20	15 Actual		\$	%
Specific Service Charges	\$	751,308	\$	728,545	\$	(22,763)	-3%
Late Payment Charges	\$	192,312	\$	188,882	\$	(3,430)	-2%
Other Operating Revenues	\$	654,758	\$	468,566	\$	(186,192)	-28%
Other Income or Deductions	\$	(24,677)	\$	197,564	\$	222,241	901%
Total	\$	1,573,702	\$	1,583,557	\$	9,855	1%

2015 Actual Other Operating Revenue was \$1,583,557 or \$9,855 higher than the 2014 Actual of \$1,573,702.

The material variances between 2015 Actuals and 2014 Actuals for Other Operating Revenues were:

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Reduction in Other Electric Revenues of \$212,645: Prior to 2015 the former BCP included the
revenue from providing water billing services to the County of Brant in Account 4220 Other
Electric Revenues. In 2015 and onward, the revenue is included in Account 4375.

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Regulatory Credits variance of \$540,513 is principally explained by an adjustment to Account
1576 Accounting Changes under CGAAP for the former BCP. Subsequent to the acquisition
of the former BCP, the former CND reviewed the computation with respect to Account 1576
and identified that a further adjustment to the account was required, resulting in an increased
regulatory liability. Please refer to Exhibit 9 for further details with respect to Account 1576.

 Accounts 4375 Revenues from Non-Utility Operations and Account 4380 Expenses of Non-Utility Operations. The net change of these two accounts, which are related, was \$168,434 higher.

Account 4375 Revenues increased by \$1,180,974 principally explained by: (i) \$733,145 in CDM revenue for the former BCP (with a corresponding expense of \$733,145, resulting in an overall net impact of nil; (ii) \$300,000 in incentive revenue recognized by the former CND based on the results of its performance under the 2011-2014 Conservation and Demand Management programs. This revenue should not have been excluded for purposes of regulated other income in 2015; and (iii) \$226,492 in water billing services revenue from services provided to the County of Brant (with a corresponding expense of \$226,492, resulting in an overall net impact of nil), which were included in Account 4220 in prior years, as noted above.

Account 4380 Expenses increased by \$1,012,540 principally explained by: (i) CDM expenses of \$733,145; and (ii) \$226,492 in allocated expenses for water billing services, as described above.

Account 4405 Interest and Dividend income was \$504,610 higher as a result of: (i) intercompany interest earned by the former CND of \$389,351 from intercompany debt provided to the former BCP. Interest expense for the former BCP as a result was also higher; and (ii) OEB carrying charges.

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2016 Actual Comparison to 2015 Actual – Other Operating Revenue

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Table 3-50 below summarizes the variance in Other Operating Revenue between the 2016 Actuals and 2015 Actuals.

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Table 3-50: Other Operating Revenue – 2016 Actual and 2015 Actual

				Di	ifference	Difference
Other Distribution Revenue	2	015 Actual	2016 Actual		\$	%
Specific Service Charges	\$	728,545	\$ 809,688	\$	81,143	11%
Late Payment Charges	\$	188,882	\$ 225,148	\$	36,266	19%
Other Operating Revenues	\$	468,566	\$ 634,964	\$	166,399	36%
Other Income or Deductions	\$	197,564	\$ 357,818	\$	160,253	81%
Total	\$	1,583,557	\$ 2,027,617	\$	444,061	28%

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9 10 2016 Actual Other Operating Revenue was \$2,027,617 or \$444,061 higher than the 2015 Actual of \$1,583,557.

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The material variances between 2016 Actuals and 2015 Actuals for Other Operating Revenues were:

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• Regulatory Credits decreased from (\$647,982) to \$133,064 for a variance of \$781,046. Included in the Regulatory Credit account of \$133,064 for the year were two amounts:

17 18 Recognition of the annual Account 1576 Accounting Changes under CGAAP amount for the former BCP, representing a debit of \$223,379 (increased regulatory liability); and

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Recognition of the Account 1575 Transition to Account 1575 IFRS-CGAAP Transitional PP&E amounts for losses on de-recognition of utility property as a result of assets removed from service before the end of their useful life, resulting in a loss on disposition, with a corresponding credit of \$356,444 for the year (recognition of a regulatory debit). Please refer to Exhibit 9 for further details with respect to Account 1575.

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As noted previously, the 2015 Actuals included a larger adjustment for Account 1576 than in the 2016 Actuals.

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Accounts 4375 Revenues from Non-Utility Operations and Account 4380 Expenses of Non-Utility Operations. The net change of these two accounts, which are related, was a decrease of \$189,989. As noted previously, the prior year included \$300,000 in incentive revenue

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recognized by the former CND based on the results of its performance under the 2011-2014 Conservation and Demand Management programs. This revenue should have been excluded for purposes of regulated other income in 2015.

Account 4405 Interest and Dividend income was \$373,287 lower in 2016. As noted previously,
the 2015 Actuals included intercompany interest earned by the former CND of \$389,351 from
intercompany debt provided to the former BCP. As the utilities were amalgamated in 2016,
there was no intercompany interest income.

2017 Forecast Comparison to 2016 Actual – Other Operating Revenue

Table 3-51 below summarizes the variance in Other Operating Revenue between the 2017 Forecast and 2016 Actuals.

Table 3-51: Other Operating Revenue – 2017 Forecast and 2016 Actual

				2017		ifference	Difference
Other Distribution Revenue	2	016 Actual	F	orecast		\$	%
Specific Service Charges	\$	809,688	\$	768,275	\$	(41,413)	-5%
Late Payment Charges	\$	225,148	\$	192,353	\$	(32,795)	-15%
Other Operating Revenues	\$	634,964	\$	666,388	\$	31,423	5%
Other Income or Deductions	\$	357,818	\$	61,984	\$	(295,834)	-83%
Total	Ś	2.027.617	Ś	1.689.000	Ś	(338.618)	-17%

2017 Forecast Other Operating Revenue was \$1,689,000 or \$338,618 lower than the 2016 Actual of \$2,027,617.

The material variances between 2017 Forecast and 2016 Actuals for Other Operating Revenues are:

Regulatory Debits of (\$432,123), representing a reduction to Other Operating Revenues, as a
result of the recognition of the annual Account 1576 Accounting Changes under CGAAP
amount for the former BCP, representing an increased regulatory liability. The annual
adjustment for 2016 was included in Account 4310 Regulatory Credits.

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• Regulatory Credits increase of \$332,860, principally explained by an increase in Account 1575 related to the loss on de-recognition of assets in 2017 compared to 2016 (\$465,924) compared to the \$356,444 recorded in 2016, but which was reflected in the Regulatory Debit account.

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Please refer to Exhibit 9 for further information with respect to Accounts 1575 and 1576.

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 Loss on Disposition of Utility and Other Property increased by \$190,906 from 2016 Actuals to 2017 Actuals as a result of an increase in the amount of loss on de-recognition as a result of removing assets from service before the end of their useful life, as identified above. This is principally attributable to the System Access projects undertaken in the year, which are more fully described in Exhibit 2.

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Account 4380 Expenses of Non-Utility Operations for 2017 were \$200,033 lower than 2016
Actuals. For purposes of 2017 Forecast, operating costs were not directly allocated to the
performance of water billing services. Operating costs have been included in OM&A, with the
revenue included in Account 4375.

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2018 Bridge Comparison to 2017 Forecast – Other Operating Revenue

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Table 3-52 below summarizes the variance in Other Operating Revenue between the 2018 Bridge Year and 2017 Forecast.

Table 3-52: Other Operating Revenue – 2018 Bridge Year and 2017 Forecast

				2018 Bridge		ifference	Difference
Other Distribution Revenue	2017	Forecast		Year		\$	%
Specific Service Charges	\$	768,275	\$	638,145	\$	(130,130)	-17%
Late Payment Charges	\$	192,353	\$	189,000	\$	(3,353)	-2%
Other Operating Revenues	\$	666,388	\$	691,124	\$	24,736	4%
Other Income or Deductions	\$	61,984	\$	306,731	\$	244,747	395%
Total	\$	1,689,000	\$	1,825,000	\$	136,000	8%

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2018 Bridge Year Other Operating Revenue is projected to be \$1,825,000 or \$136,000 lower than the 2017 Forecast. Overall this was not a material variance. The material variances by account are further explained below.

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 Regulatory Debits of (\$293,877), representing an increase in the reduction to Other Operating Revenues, as a result of the recognition of the annual Account 1576 Accounting Changes under CGAAP amount for the former BCP, representing an increased regulatory liability. As a result of increased capital expenditures in the Brant service territory, the variance derived between the former CGAAP and IFRS increases.

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 Regulatory Credits decrease of \$165,924, principally explained by an expected decrease in the amount to be recorded in Account 1575 related to the loss on de-recognition of assets. The loss on de-recognition for 2018 is projected to be \$300,000 in 2018 compared to \$465,924 forecast for 2017.

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Please refer to Exhibit 9 for further information with respect to Accounts 1575 and 1576.

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- Loss on Disposition of Utility and Other Property is expected to decrease by \$165,924. This
 loss arises from the calculation of the loss on de-recognition as a result of removing assets
 from service before the end of their useful life amount. This is principally attributable to the
 System Access projects undertaken in the year, which are more fully described in Exhibit 2.
- Gain on disposition of utility and other property of \$618,000 represents the computed estimated gain on the sale of the land and building at 65 Dundas Street East, Paris, Ontario. This transaction is further explained in Exhibit 2, Section 2.7.3. and Exhibit 9, Section 9.3.4.

2019 Test Comparison to 2018 Bridge – Other Operating Revenue

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Table 3-53 below summarizes the variance in Other Operating Revenue between the 2019 Test Year and the 2018 Bridge Year.

Table 3-53: Other Operating Revenue – 2019 Test Year and 2018 Bridge Year

		2018		2019		ifference	Difference
Other Distribution Revenue	В	ridge Year	Т	est Year		\$	%
Specific Service Charges	\$	638,145	\$	637,145	\$	(1,000)	0%
Late Payment Charges	\$	189,000	\$	189,000	\$	-	0%
Other Operating Revenues	\$	691,124	\$	724,986	\$	33,862	5%
Other Income or Deductions	\$	306,731	\$	103,860	\$	(202,871)	-66%
Total	\$	1,825,000	\$	1,654,991	\$	(170,009)	-9%

2019 Test Year Other Operating Revenue is projected to be \$1,654,991 or \$170,009 lower than the 2018 Bridge Year. Overall this is not a material variance. The material variances by account are further explained below.

 Regulatory Debits and Regulatory Credits – The variances in these accounts are directly due to Energy+ rebasing in 2019. The net impact in 2019 is an increase in Other Revenue of \$426,000.

As the 2019 rate base will reflect MIFRS, there will no longer be Regulatory Debits and Credits associated with CGAAP and MIFRS differences reported in Accounts 1575 and 1576 and therefore no corresponding need for Regulatory Debit and Regulatory Credit entries.

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Losses on de-recognition related to assets removed from service will continue to be recorded in Account 4360, however, there will be no corresponding offset in Account 4310 Regulatory Credits. The entry to record the CGAAP differences in Account 1576 for the former BCP will not be required in 2019 as a result of rebasing, and therefore there will be no corresponding offset in Account 4305 Regulatory Debits.

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 Gain on Disposition of Utility and Other Property decreases in 2019, as there is no planned disposition of property. As noted previously, 2018 included a \$618,000 gain on sale associated with the sale of land and building in Paris, Ontario.

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3.4.3 Specific Service Charges

Energy+ proposes to harmonize the Specific Service Charges ("SSC"). Energy+ provides consistent service across both of its service territories. Please refer to Exhibit 8, Section 8.2.4 for further details with respect to the Energy+ proposed SSC effective January 1, 2019.

The majority of the SCC rates are in fact already consistent in both service territories. The only proposed changes are as follows:

• The former CND was approved for an "Install/Remove load control device – during regular hours" and an "Install/Remove load control device – after regular hours". Energy+ proposes that this SCC continues across the Energy+ service territory.

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 Specific charge for access to power poles - \$/Pole/Year to be updated to \$43.63 in accordance with the Board's Decision "Updated Pole Attachment Charge for Wireline Pole Attachments" (EB-2015-0304) issued March 22, 2018.

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 Removal of the "Temporary Service" rates from the Tariff Sheet. Energy+'s Conditions of Service (Section 3.2.10) currently provides for the provision of Temporary Service to customers based on actual costs incurred, including labour and material for the installation and the removal of equipment required for the Temporary Service. Energy+ proposes to continue to use the time and materials approach as the temporary service may be customized based on the customer's specific requirements.

Removal of the rural system expansion/line connection fee.

3.4.4 Revenues from Affiliates, Shared Services and Corporate Cost Allocations

Table 3-54 below summarizes Energy+'s revenue related to affiliate transactions and shared services. For a complete description of the nature of the service provided to affiliated entities, please refer to Exhibit 4, Section 4.5 Shared Services/Corporate Cost Allocation.

Table 3-54: Revenues from Affiliates, Shared Services and Corporate Cost Allocations

Revenues from Affiliates, Shared Services	2014	2015	2016	2017	2018	2019
Streetlight Maintenance	334,225	283,335	219,000	212,978	213,000	213,000
Business Development Fees		93,500	23,000	-	-	-
Management Fees		93,000	48,914	26,487	-	-
Accounting Services	18,000	18,360	18,360	18,360	28,360	28,360
Total	352,225	488,195	309,274	257,825	241,360	241,360

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APPENDIX 3-1: MONTHLY DATA USED IN REGRESSION MODEL

								Unemployment		
				Number of				Kitchener-		
	Energy+	Heating	Cooling Degree	Days in	Spring Fall	Number of	Co-generation	Waterloo-Barrie		Predicted
	Purchased	Degree Days	<u>Days</u>	<u>Month</u>	<u>Flaq</u>	Peak Hours	Facility Flag	(000's)	CDM Activity	<u>Purchases</u>
Jan-08	163,730,634	676.8	0	31	0	352	0	34.6	632,983	159,978,162
Feb-08	155,246,569	651.2	0	28	0	320	0	36.2	649,951	148,910,071
Mar-08	156,114,880	686.1	0	31	1	304	0	37.4	666,919	151,652,148
Apr-08	141,609,575	297.9	0	30	1	352	0	35.5	683,887	145,246,416
May-08	139,952,059	243.1	0.7	31	1	336	0	38.5	700,855	144,318,303
Jun-08	150,506,910	40.6	53	30	0	336	0	39.2	717,823	156,271,854
Jul-08	162,083,910	7.6	75.8	31	0	352	0	42.5	734,791	165,252,381
Aug-08	153,571,210	36.2	29.5	31	0	320	0	40.9	751,759	149,584,572
Sep-08	146,967,275	93.2	12	30	1	336	0	40.3	768,727	141,382,284
Oct-08	145,817,180	325.7	0	31	1	352	0	38.1	785,695	147,505,482
Nov-08	146,020,855	499.7	0	30	1	304	0	39.1	802,663	144,499,492
Dec-08	151,789,266	694	0	31	0	336	0	42.3	819,631	156,713,056
Jan-09	157,514,739	891.8	0	31	0	336	0	48.1	873,817	159,564,151
Feb-09	138,163,314	649.6	0	29	0	304	0	56.2	928,002	144,112,008
Mar-09	146,052,965	562.6	0	31	1	352	0	64.9	982,188	145,283,967
Apr-09	131,712,116	341.5	3.2	30	1	320	0	70.3	1,036,374	134,424,043
May-09	128,073,706	192.8	2.3	31	1	320	0	71.1	1,090,560	132,916,994
Jun-09	136,864,560	75.7	26.2	30	0	352	0	67.4	1,144,745	142,374,419
Jul-09	137,175,551	37.6	14.5	31	0	352	0	67.6	1,198,931	140,310,554
Aug-09	151,715,212	34.4	57.3	31	0	320	0	69.2	1,253,117	149,764,233
Sep-09	137,213,000	88.8	5.5	30	1	336	0	66.3	1,307,302	131,838,954
Oct-09	139,303,225	329.1	0	31	1	336	0	61.0	1,361,488	139,524,545
Nov-09	138,754,087	396.5	0	30	1	320	0	55.2	1,415,674	138,857,739
Dec-09	151,145,269	669.5	0	31	0	352	0	56.0	1,469,860	153,528,079
Jan-10	157,482,472	727.1	0	31	0	320	0	59.6	1,495,425	150,956,771
Feb-10	140,270,018	644.7	0	28	0	304	0	64.7	1,520,990	139,036,504
Mar-10	145,685,554	470.9	0	31	1	368	0	68.2	1,546,555	143,526,898
Apr-10	129,920,689	255.7	0	30	1	320	0	66.8	1,572,120	132,335,803
May-10	141,343,928	144.7	21	31	1	320	0	64.3	1,597,686	139,202,778
Jun-10	147,324,468	37.7	26.8	30	0	352	0	58.3	1,623,251	144,111,258
Jul-10	163,679,584	6.7	100.6	31	0	336	0	57.5	1,648,816	166,746,973
Aug-10	163,052,338	9.7	79.2	31	0	336	0	56.4	1,674,381	160,690,809
Sep-10	139,539,295	122.7	16.7	30	1	336	0	58.1	1,699,946	138,167,873
Oct-10	136,568,534	279.6	0	31	1	320	0	56.2	1,725,512	138,211,680
Nov-10	143,076,146	337.9	0	30	1	336	0	52.4	1,751,077	139,642,435
Dec-10	153,978,824	719.4	0	31	0	368	0	50.5	1,776,642	157,552,204
Jan-11	160,532,811	770	0	31	0	336	0	51.4	1,894,821	155,554,881
Feb-11	143,648,676	640.8	0	28	0	304	0	54.0	2,012,999	141,816,330
Mar-11	152,850,166	605.3	0	31	1	368	0	58.6	2,131,178	149,116,852
Apr-11	133,264,120	298.7	0	30	1	320	0	58.1	2,249,357	135,563,768
May-11	132,480,697	148.7	13.2	31	1	336	0	57.1	2,367,535	140,179,806
Jun-11	143,414,133	48.5	21.6	30	0	352	0	52.1	2,485,714	144,284,246
Jul-11	167,728,493	0.8	128.2	31	0	320	0	50.0	2,603,893	175,299,064
Aug-11	159,977,946	6.9	54.3	31	0	352	0	50.6	2,722,071	155,899,488
Sep-11	141,769,544	88.9	17.2	30	1	336	0	51.2	2,840,250	139,151,399
Oct-11	139,373,425	279.9	0	31	1	320	0	50.0	2,958,429	139,596,104
Nov-11	143,096,384	382.4	0	30	11	352	0	48.2	3,076,607	142,871,297
Dec-11	148,895,705	574.8	0	31	0	336	0	47.2	3,194,786	151,905,348

								Unemployment		
	_			Number of				Kitchener-		
	Energy+	Heating	Cooling Degree	Days in	Spring Fall	Number of	Co-generation	Waterloo-Barrie		Predicted
	<u>Purchased</u>	Degree Days	<u>Days</u>	<u>Month</u>	Flag	Peak Hours	Facility Flag	(000's)	CDM Activity	<u>Purchases</u>
Jan-12	155,486,673	657.3	0	31	0	336	0	49.2	3,244,256	153,204,585
Feb-12	145,133,896	573	0	29	0	320	0	47.6	3,293,726	145,512,398
Mar-12	144,404,871	370.1	0	31	1	352	0	49.7	3,343,196	144,478,209
Apr-12	136,393,488	365.3	0	30	1	320	0	49.2	3,392,665	139,245,364
May-12	142,263,126	103.8	18.2	31	1	352	0	50.6	3,442,135	143,599,034
Jun-12	151,229,861	42.1	61.2	30	0	336	0	47.3	3,491,605	155,652,419
Jul-12	169,494,395	0	116.4	31	0	336	0	49.4	3,541,075	173,054,772
Aug-12	159,364,348	19.4	58.1	31	0	352	0	50.6	3,590,545	157,064,478
Sep-12	139,245,313	125.4	16.4	30	1	304	0	50.8	3,640,015	136,754,695
Oct-12	141,909,461	279.2	0	31	1	352	0	46.2	3,689,485	143,291,792
Nov-12	145,265,831	483.6	0	30	1	352	0	41.6	3,738,955	146,836,508
Dec-12	144,966,202	565.5	0	31	0	304	0	43.2	3,788,425	149,783,115
Jan-13	157,567,335	681.3	0.0	31	0	352	0	44.9	3,883,154	156,201,170
Feb-13	142,891,117	697.9	0.0	28	0	304	0	48.0	3,977,884	144,217,499
Mar-13	149,596,120	612.0	0.0	31	1	320	0	49.0	4,072,614	147,102,827
Apr-13	139,465,850	368.7	0.0	30	1	352	0	50.4	4,167,343	141,611,783
May-13	140,671,486	152.1	19.6	31	1	352	0	53.1	4,262,073	144,167,968
Jun-13	146,044,314	46.4	31.3	30	0	320	0	52.3	4,356,802	143,671,484
Jul-13	163,523,830	15.1	85.9	31	0	352	0	54.6	4,451,532	163,929,410
Aug-13	156,301,473	32.7	42.1	31	0	336	0	52.7	4,546,262	150,253,192
Sep-13	141,808,921	128.1	20.5	30	1	320	0	50.4	4,640,991	139,289,638
Oct-13	142,318,918	255.5	0.0	31	1	352	0	43.5	4,735,721	143,199,324
Nov-13	146,933,624	517.7	0.0	30	1	336	0	38.6	4,830,450	146,700,729
Dec-13	153,551,135	727.3	0.0	31	0	320	0	38.9	4.925.180	155,766,863
Jan-14	164,681,770	827.9	0.0	31	0	352	0	42.2	5,042,472	159,951,167
Feb-14	146,005,300	775.2	0.0	28	0	304	0	43.2	5,159,763	146,975,284
Mar-14	156,569,300	757.0	0.0	31	1	336	0	44.9	5,277,055	152,627,466
Apr-14	137,956,494	375.9	0.0	30	1	320	0	46.0	5,394,346	139,787,721
May-14	138,596,960	135.7	5.7	31	1	336	0	48.0	5,511,638	139,252,764
Jun-14	149,469,168	37.3	44.3	30	0	336	0	45.4	5.628.929	150.361.620
Jul-14	152,904,627	36.8	31.5	31	0	352	0	45.9	5,746,221	150,149,698
Aug-14	152,572,601	31.1	24.5	31	0	320	0	45.7	5,863,513	145,078,968
Sep-14	144,202,859	114.0	11.4	30	1	336	0	46.7	5,980,804	138,306,474
Oct-14	141.784.861	244.6	0.0	31	1	352	0	39.9	6.098.096	143,557,002
Nov-14	147,002,028	521.9	0.0	30	1	304	0	36.6	6,215,387	144.084.402
Dec-14	150,673,727	597.6	0.0	31	0	336	0	36.1	6.332.679	154.611.265
Jan-15	162,109,040	800.8	0.0	31	0	336	0	37.5	6.825.043	158,694,071
Feb-15	151.053.649	917.5	0.0	28	0	304	0	40.0	7.317.406	150,468,607
Mar-15	153,760,946	538.0	0.0	31	1	352	0	42.5	7,809,770	148,988,592
Apr-15	136,246,376	359.0	0.0	30	1	336	0	46.6	8,302,134	139,790,792
May-15	142.082.914	116.2	29.8	31	1	320	0	46.7	8.794.498	143.997.475
Jun-15	144,315,928	54.7	15.0	30	0	352	0	40.4	9,286,861	143,699,446
Jul-15	159,308,531	19.3	57.7	31	0	352	0	38.7	9.779.225	158,438,536
Aug-15	154,960,648	29.5	47.9	31	0	320	0	42.0	10,271,589	151,789,566
Sep-15	151.336.949	58.2	45.3	30	1	336	0	42.8	10,763,953	146.880.488
Oct-15	138,743,001	290.1	0.0	31	1	336	0	39.7	11,256,316	141,670,368
Nov-15	140.077.609	391.1	0.0	30	1	320	0	33.6	11,748,680	141,721,383
Dec-15	143,383,809	453.0	0.0	31	0	352	0	36.1	12.241.044	150,975,813
DCC 10	170,000,000	755.0	0.0	J1	J	552		50.1	12,471,077	100,010,013

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		1							April 30, 2	J10
								Unemployment		
				Number of				Kitchener-		
	Energy+	<u>Heating</u>	Cooling Degree	Days in	Spring Fall	Number of	Co-generation	Waterloo-Barrie		Predicted
	<u>Purchased</u>	Degree Days	<u>Days</u>	<u>Month</u>	<u>Flag</u>	Peak Hours	Facility Flag	(000's)	CDM Activity	<u>Purchases</u>
Jan-16	151,479,468	717.8	0.0	31	0	320	1	39.5	12,393,080	145,803,035
Feb-16	139,037,353	627.4	0.0	29	0	320	1	41.9	12,545,116	138,243,556
Mar-16	139,556,842	492.6	0.0	31	1	352	1	45.0	12,697,153	138,446,785
Apr-16	130,739,501	431.8	0.0	30	1	336	1	45.1	12,849,189	133,169,268
May-16	134,794,588	174.6	18.4	31	1	336	1	44.6	13,001,225	135,325,791
Jun-16	142,952,798	51.2	34.3	30	0	352	1	41.0	13,153,261	140,749,726
Jul-16	159,029,857	4.8	101.2	31	0	320	1	41.2	13,305,297	159,212,865
Aug-16	169,034,513	2.1	105.0	31	0	352	1	42.5	13,457,334	162,740,411
Sep-16	143,657,708	68.6	26.6	30	1	336	1	41.2	13,609,370	133,761,702
Oct-16	133,990,818	242.1	1.9	31	1	320	1	38.9	13,761,406	131,855,584
Nov-16	134,263,989	388.2	0.0	30	1	336	1	34.2	13,913,442	134,929,995
Dec-16	143,649,821	647.8	0.0	31	0	336	1	35.3	14,065,479	146,321,468
Jan-17	148,240,474	635.1	0	31	0	336	1	37.9	14,083,036	145,294,177
Feb-17	128,458,708	537.9	0	28	0	304	1	41.3	14,100,594	132,088,710
Mar-17	142,735,167	597.6	0	31	1	368	1	44.4	14,118,151	142,009,263
Apr-17	123,292,782	281.6	0	30	1	304	1	42.7	14,135,709	127,180,753
May-17	129,397,353	214.4	2.7	31	1	352	1	44.2	14,153,267	132,713,506
Jun-17	136,595,537	45.2	43	30	0	352	1	41.2	14,170,824	142,864,042
Jul-17	145,295,605	3.2	58.5	31	0	320	1	43.5	14,188,382	145,439,235
Aug-17	144,530,231	34.5	28.6	31	0	352	1	40.4	14,205,939	140,900,623
Sep-17	137,290,329	81.1	36.3	30	1	320	1	39.3	14,223,497	135,880,609
Oct-17	130,392,690	208.9	3.2	31	1	336	1	34.3	14,241,054	134,072,968
Nov-17	135,442,901	480	0	30	1	352	1	30.3	14,258,612	139,445,295
Dec-17	141,910,569	755.7	0	31	0	304	1	30.1	14,276,170	147,320,234
Jan-18	, ,	738.6	0.0	31	0	352	1	39.1	14,320,872	148,660,712
Feb-18		671.5	0.0	28	0	304	1	39.1	14,365,575	135,661,429
Mar-18		569.2	0.0	31	1	336	1	39.1	14,410,277	139,900,327
Apr-18		337.6	0.3	30	1	336	1	39.1	14,454,980	132,321,254
May-18		162.6	13.2	31	1	352	1	39.1	14,499,682	136,000,282
Jun-18		47.9	35.7	30	0	336	1	39.1	14,544,385	139,765,539
Jul-18		13.2	77.0	31	0	336	1	39.1	14,589,088	153,772,175
Aug-18		23.7	52.7	31	0	352	1	39.1	14,633,790	148,104,978
Sep-18		96.9	20.8	30	1	304	1	39.1	14,678,493	130,062,698
Oct-18		273.5	0.5	31	1	352	1	39.1	14,723,195	134,657,542
Nov-18		439.9	0.0	30	1	336	1	39.1	14,767,898	134,459,553
Dec-18		640.5	0.0	31	0	304	1	39.1	14,812,601	141,989,554
Jan-19		738.6	0.0	31	0	352	1	39.1	14,693,805	148,548,740
Feb-19		671.5	0.0	28	0	304	1	39.1	14,575,009	135,598,547
Mar-19		569.2	0.0	31	1	336	1	39.1	14,456,213	139,886,535
Apr-19		337.6	0.3	30	1	336	1	39.1	14,337,418	132,356,552
May-19		162.6	13.2	31	1	352	1	39.1	14,218,622	136,084,670
Jun-19		47.9	35.7	30	0	320	1	39.1	14,099,826	138,469,066
Jul-19		13.2	77.0	31	0	352	1	39.1	13,981,031	155,384,695
Aug-19		23.7	52.7	31	0	336	1	39.1	13,862,235	146,906,685
Sep-19		96.9	20.8	30	1	320	1	39.1	13,743,439	131,773,398
Oct-19		273.5	0.5	31	1	352	1	39.1	13,624,644	134,987,380
Nov-19		439.9	0.0	30	1	320	1	39.1	13,505,848	133,408,530
Dec-19		640.5	0.0	31	0	320	1	39.1	13,387,052	143,847,524

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APPENDIX 3-2: OEB APPPENDIX 2-IB ACTUAL AND FORECAST ANALYSIS

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Appendix 2-IB Customer, Connections, Load Forecast and Revenues Data and Analysis

This sheet is to be filled in acco	rdance with the inst	ructions documented in section 2.3.2 of Chapter 2 of the I	Filing Requirements f	or Distribution Rate Applications, in terms of one set of tables per customer class.
Color coding for Cells:		Data input		Drop-down List
		No data entry required		Blank or calculated value
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Distribution System (Total)

	Calendar Year			Consumption	(kWh) ⁽³⁾	
	(for 2019 Cost of Service		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2013	Actual	1,745,480,851	1,740,780,780		
Historical	2014	Actual	1,730,430,155	1,744,973,269	Board-approved	1,725,698,663
Historical	2015	Actual	1,750,185,363	1,751,218,993		
Historical	2016	Actual	1,676,617,027	1,654,503,730		
Historical	2017	Actual	1,596,674,910	1,607,741,362		
Bridge Year	2018	Forecast		1,613,358,743		
Test Year	2019	Forecast		1,607,164,117		

Variance Analysis	Year	Year-o	/er-year	Versus Board approved
	2013			
	2014	(0.9%)	0.2%	
	2015	1.1%	0.4%	
	2016	(4.2%)	(5.5%)	
	2017	(4.8%)	(2.8%)	
	2018		0.3%	
	2019		(0.4%)	(6.9
	Geometric Mean	(2.9%)	(1.6%)	

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Schedule:
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Date: 27-Apr-18

Customer Class Analysis (one for each Customer Class, excluding MicroFIT and Standby)

1 Customer Class: Residential Is the customer class billed on consumption (kWh) or demand (kW or kVA)? kWh

	Calendar Year		Customers					Consumption (kWh) per Customer							
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2013	Actual	55,070			Actual	464,848,343	463,596,642			Actual	8,441	8,418		
Historical	2014	Actual	55,463	Board-approved	56,426	Actual	477,025,968	481,035,054	Board-approved	483,440,220	Actual	8,601	8,673	Board-approved	8,568
Historical	2015	Actual	55,922			Actual	486,541,296	486,828,639			Actual	8,700	8,706		
Historical	2016	Actual	56,561			Actual	479,944,152	473,614,056			Actual	8,485	8,374		
Historical	2017	Actual	57,272			Actual	453,855,075	457,000,716			Actual	7,925	7,980		
Bridge Year	2018	Forecast	57,970			Forecast		465,920,846			Forecast	-	8,037		
Test Year	2019	Forecast	58,677			Forecast		466,068,279			Forecast	-	7,943		

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-o	ver-year	Test Year Versus Board-approved	Year	Year-ov	er-year	Test Year Versus Board- approved
	2013			2013				2013			
	2014	0.7%		2014	2.6%	3.8%		2014	1.9%	3.0%	
	2015	0.8%		2015	2.0%	1.2%		2015	1.2%	0.4%	
	2016	1.1%		2016	(1.4%)	(2.7%)		2016	(2.5%)	(3.8%)	
	2017	1.3%		2017	(5.4%)	(3.5%)		2017	(6.6%)	(4.7%)	
	2018	1.2%		2018	, ,	2.0%		2018	, ,	0.7%	
	2019	1.2%	4.0%	2019		0.0%	(3.6%)	2019		(1.2%)	(7.3%)
	Geometric Mean	1.3%		Geometric Mean	(0.8%)	0.1%	, ,	Geometric Mean	(2.1%)	(1.2%)	,

	Calendar Year (for 2019 Cost of Service		Rev	enues	
Historical	2013	Actual			
Historical	2014	Actual		Board-approved	
Historical	2015	Actual			
Historical	2016	Actual			
Historical	2017	Actual			
Bridge Year (Forecast)	2018	Forecast	\$ 17,364,576		
Test Year (Forecast)	2019	Forecast	\$ 19,326,717		

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	2014		
	2015		
	2016		
	2017		
	2018		
	2019	11.3%	
	Geometric Mean		

General Service < 50 kW

kWh

	Calendar Year		Cı	stomers				Consumption	(kWh) ⁽³⁾		Consumption (kWh) per Customer					
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized	
Historical	2013	Actual	6,004			Actual	193,717,267	193,195,643			Actual	32,263	32,176			
Historical	2014	Actual	6,057	Board-approved	6,078	Actual	198,149,245	199,814,557	Board-approved	196,006,542	Actual	32,715	32,990	Board-approved	32,249	
Historical	2015	Actual	6,149			Actual	203,100,575	203,220,523			Actual	33,029	33,049			
Historical	2016	Actual	6,241			Actual	212,807,519	210,000,750			Actual	34,100	33,650			
Historical	2017	Actual	6,298			Actual	189,005,848	190,315,835			Actual	30,013	30,221			
Bridge Year	2018	Forecast	6,374			Forecast		192,724,357			Forecast	-	30,237			
Test Year	2019	Forecast	6,451			Forecast		195,276,256			Forecast	=	30,272			

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-o	ver-year	Test Year Versus Board-approved	Year	Year-over-y	⁄ear	Test Year Versus Board- approved
	2013			2013				2013			
	2014	0.9%		2014	2.3%	3.4%		2014	1.4%	2.5%	
	2015	1.5%		2015	2.5%	1.7%		2015	1.0%	0.2%	
	2016	1.5%		2016	4.8%	3.3%		2016	3.2%	1.8%	
	2017	0.9%		2017	(11.2%)	(9.4%)		2017	(12.0%)	(10.2%)	
	2018	1.2%		2018	, ,	1.3%		2018	, ,	0.1%	
	2019	1.2%	6.1%	2019		1.3%	(0.4%)	2019		0.1%	(6.1%)
	Geometric Mean	1.4%		Geometric Mean	(0.8%)	0.2%	,	Geometric Mean	(2.4%)	(1.2%)	, ,

	Calendar Year	Revenues								
	(for 2019 Cost of Service									
Historical	2013	Actual								
Historical	2014	Actual			Board-approved					
Historical	2015	Actual								
Historical	2016	Actual								
Historical	2017	Actual								
Bridge Year (Forecast)	2018	Forecast	\$	4,098,914						
Test Year (Forecast)	2019	Forecast	\$	4,367,146						

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	2014		
	2015		
	2016		
	2017		
	2018		
	2019	6.5%	
	Geometric Mean		

General Service > 50 to 999 kW

kW

	Calendar Year		Cu	stomers				Consumption	(kWh) ⁽³⁾			Consum	ption (kWh) p	er Customer	
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2013	Actual	840			Actual	518,348,767	516,953,005			Actual	617,082	615,420		
Historical	2014	Actual	825	Board-approved	874	Actual	494,277,242	498,431,313	Board-approved	497,383,819	Actual	599,124	604,159	Board-approved	569,089
Historical	2015	Actual	808			Actual	485,904,146	486,191,112			Actual	601,413	601,769		
Historical	2016	Actual	806			Actual	484,199,963	477,813,736			Actual	600,791	592,867		
Historical	2017	Actual	796			Actual	487,037,522	490,413,148			Actual	611,856	616,097		
Bridge Year	2018	Forecast	798			Forecast		494,297,087			Forecast	-	619,267		
Test Year	2019	Forecast	800			Forecast		493,112,062			Forecast	-	616,082		

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-over-y	/ear	Test Year Versu Board-approved	V V Dar	Year-o	ver-year	Test Year Versus Board- approved
	2013 2014 2015	(1.8%) (2.1%)		2013 2014 2015	(4.6%) (1.7%)	(3.6%) (2.5%)		2013 2014 2015	(2.9%) 0.4%	(1.8%) (0.4%)	
	2016 2017	(2.17%) (0.2%) (1.2%)		2016 2017	(0.4%) 0.6%	(1.7%) 2.6%		2016 2017	(0.1%) 1.8%	(1.5%) 3.9%	
	2018 2019	0.3% 0.3%	(8.4%)	2018 2019		0.8% (0.2%)	(0.9%)	2018 2019		0.5% (0.5%)	8.3%
	Geometric Mean	(1.0%)		Geometric Mean	(2.1%)	(0.9%)		Geomet Mean	ic (0.3%)	0.0%	

	Calendar Year	Revenues									
	(for 2019 Cost of Service										
Historical	2013	Actual									
Historical	2014	Actual				Board-approved					
Historical	2015	Actual									
Historical	2016	Actual									
Historical	2017	Actual									
Bridge Year (Forecast)	2018	Forecas	t S	\$	7,665,822						
Test Year (Forecast)	2019	Forecas	t S	\$	7,598,262						

		Demand (kW)	
	Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual	1,568,193	1,563,970		
Actual	1,605,303	1,618,795	Board-approved	1,403,590
Actual	1,555,819	1,556,738		
Actual	1,564,561	1,543,925		
Actual	1,518,753	1,529,280		
Forecast		1,559,982		
Forecast		1,556,242		

	Dema	nd (kW) per C	ustomer	
	Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual	1,867	1,862		
Actual	1,946	1,962	Board-approved	1,606
Actual	1,926	1,927		
Actual	1,941	1,916		
Actual	1,908	1,921		
Forecast	-	1,954		
Forecast	-	1,944		

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	2014		
	2015		
	2016		
	2017		
	2018		
	2019	(0.9%)	
	Geometric Mean		

Year	Year-over-year		Test Year Versus Board-approved	Year	Year-ov	Test Year Versus Board- approved	
2013				2013			
2014	2.4%	3.5%		2014	4.2%	5.4%	
2015	(3.1%)	(3.8%)		2015	(1.0%)	(1.8%)	
2016	0.6%	(0.8%)		2016	0.8%	(0.6%)	
2017	(2.9%)	(0.9%)		2017	(1.7%)	0.3%	
2018	, ,	2.0%		2018	, ,	1.7%	
2019		(0.2%)	10.9%	2019		(0.5%)	21.1%
Geometric Mean	(1.1%)	(0.1%)		Geometric Mean	0.7%	0.9%	

General Service > 1000 to 4999 kW

	Calendar Year		Cı	ıstomers				Consumption	(kWh) ⁽³⁾			Consum	ption (kWh) pe	er Customer	
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2013	Actual	30			Actual	270,280,543	269,552,756			Actual	9,162,052	9,137,382		
Historical	2014	Actual	29	Board-approved	32	Actual	263,042,176	265,252,870	Board-approved	250,228,232	Actual	9,070,420	9,146,651	Board-approved	7,819,632
Historical	2015	Actual	29			Actual	263,255,330	263,410,804			Actual	9,077,770	9,083,131		!
Historical	2016	Actual	29			Actual	261,804,628	258,351,626			Actual	9,186,127	9,064,969		!
Historical	2017	Actual	28			Actual	241,351,905	243,024,700			Actual	8,619,711	8,679,454		!
Bridge Year	2018	Forecast	27			Forecast		237,019,612			Forecast	-	8,620,941		!
Test Year	2019	Forecast	27			Forecast		231,017,192			Forecast	-	8,557,426		!

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-o	ver-year	Test Year Versu Board-approved	Y	'ear	Year-ov	er-year	Test Year Versus Board- approved
	2013			2013				20	013			
	2014	(1.7%)		2014	(2.7%)	(1.6%)		20	014	(1.0%)	0.1%	
	2015	0.0%		2015	0.1%	(0.7%)		20	015	0.1%	(0.7%)	
	2016	(1.7%)		2016	(0.6%)	(1.9%)		20	016	1.2%	(0.2%)	
	2017	(1.8%)		2017	(7.8%)	(5.9%)		20	017	(6.2%)	(4.3%)	
	2018	(1.8%)		2018	, ,	(2.5%)		20	018	, ,	(0.7%)	
	2019	(1.8%)	(15.6%)	2019		(2.5%)	(7.7%	20	019		(0.7%)	9.4%
	Geometric Mean	(1.8%)	,	Geometric Mean	(3.7%)	(3.0%)	·		metric lean	(2.0%)	(1.3%)	

	Calendar Year		Revenues									
	(for 2019 Cost of Service											
Historical	2013	Actual										
Historical	2014	Actual			Board-approved							
Historical	2015	Actual										
Historical	2016	Actual										
Historical	2017	Actual										
Bridge Year (Forecast)	2018	Forecast	\$	2,560,515								
Test Year (Forecast)	2019	Forecast	\$	2,614,919								

	Demand (kW)						
	Actual (Weather actual)	Weather- normalized		Weather- normalized			
Actual	586,435	584,856					
Actual	581,849	586,739	Board-approved	721,911			
Actual	581,153	581,496					
Actual	631,904	623,570					
Actual	574,484	578,466					
Forecast		556,266					
Forecast		542,178					

	Dema	and (kW) per C	ustomer	
	Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual	19,879	19,826		
Actual	20,064	20,232	Board-approved	22,560
Actual	20,040	20,052		
Actual	22,172	21,880		
Actual	20,517	20,660		
Forecast	-	20,233		
Forecast	-	20,084		

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	2014		
	2015		
	2016		
	2017		
	2018		
	2019	2.1%	
	Geometric Mean		

Year	Year-o	Year-over-year		Year	Year-o	ver-year	Test Year Versus Board- approved
2013				2013			
2014	(0.8%)	0.3%		2014	0.9%	2.1%	
2015	(0.1%)	(0.9%)		2015	(0.1%)	(0.9%)	
2016	8.7%	7.2%		2016	10.6%	9.1%	
2017	(9.1%)	(7.2%)		2017	(7.5%)	(5.6%)	
2018	, ,	(3.8%)		2018	` ′	(2.1%)	
2019		(2.5%)	(24.9%)	2019		(0.7%)	(11.0%)
Geometric Mean	(0.7%)	(1.5%)		Geometric Mean	1.1%	0.3%	

Large User

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kW

	Calendar Year		С	ustomers				Consumption	(kWh) ⁽³⁾			Consum	ption (kWh) per Customer	
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2013	Actual	3			Actual	204,906,257	204,354,504			Actual	81,962,503	81,741,802	
Historical	2014	Actual	3	Board-approved	2	Actual	205,265,395	206,990,514	Board-approved	207,072,349	Actual	82,106,158	82,796,205 Board-approved	103,536,175
Historical	2015	Actual	2			Actual	207,374,362	207,496,833			Actual	103,687,181	103,748,417	
Historical	2016	Actual	2			Actual	151,250,312	149,255,436			Actual	75,625,156	74,627,718	
Historical	2017	Actual	2			Actual	146,226,388	147,239,874			Actual	73,113,194	73,619,937	
Bridge Year	2018	Forecast	2			Forecast		145,904,992			Forecast	-	72,952,496	
Test Year	2019	Forecast	2			Forecast		145,503,126			Forecast	-	72,751,563	

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-ov	er-year	Test Year Versus Board-approved	Year	Year-ov	er-year	Vers	est Year us Board- proved
	2013			2013				2013				
	2014	0.0%		2014	0.2%	1.3%		2014	0.2%	1.3%		
	2015	(20.0%)		2015	1.0%	0.2%		2015	26.3%	25.3%		
	2016	0.0%		2016	(27.1%)	(28.1%)		2016	(27.1%)	(28.1%)		
	2017	0.0%		2017	(3.3%)	(1.4%)		2017	(3.3%)	(1.4%)		
	2018	0.0%		2018		(0.9%)		2018		(0.9%)		
	2019	0.0%	0.0%	2019		(0.3%)	(29.7%)	2019		(0.3%)		(29.7%)
	Geometric Mean	(4.4%)		Geometric Mean	(10.6%)	(6.6%)		Geometric Mean	(3.7%)	(2.3%)		

	Calendar Year	Revenues					
	(for 2019 Cost of Service						
Historical	2013	Actual					
Historical	2014	Actual			Board-approved		
Historical	2015	Actual					
Historical	2016	Actual					
Historical	2017	Actual					
Bridge Year (Forecast)	2018	Forecast	\$	1,044,401			
Test Year (Forecast)	2019	Forecast	\$	1,096,139			

		Demand (kW)	
	Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual	425,912	424,765		
Actual	457,867	461,715	Board-approved	429,057
Actual	430,087	430,341		
Actual	358,566	353,837		
Actual	348,189	350,602		
Forecast		332,575		
Forecast		382,038		

	Dema	and (kW) per C	ustomer	
	Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual	170,365	169,906		
Actual	183,147	184,686	Board-approved	214,529
Actual	215,043	215,170		
Actual	179,283	176,918		
Actual	174,095	175,301		
Forecast	-	166,287		
Forecast	=	191,019		

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	2014		
	2015		
	2016		
	2017		
	2018		
	2019	5.0%	
	Geometric Mean		

Year	Year-ov	ver-year	Test Year Versus Board-approved	Year	Year-ov	er-year	Test Year Versus Board- approved
2013				2013			
2014	7.5%	8.7%		2014	7.5%	8.7%	
2015	(6.1%)	(6.8%)		2015	17.4%	16.5%	
2016	(16.6%)	(17.8%)		2016	(16.6%)	(17.8%)	
2017	(2.9%)	(0.9%)		2017	(2.9%)	(0.9%)	
2018	` ,	(5.1%)		2018	, ,	(5.1%)	
2019		14.9%	(11.0%)	2019		14.9%	(11.0%)
Geometric Mean	(6.5%)	(2.1%)		Geometric Mean	0.7%	2.4%	

6 Customer Class:

Direct Market Participant

ı	kW	

	Calendar Year		С	ustomers	_			Consumption	(kWh) ⁽³⁾				Consum	ption (kWh) pe	er Customer	
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized			Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2013	Actual	4			Actual					A	ctual	=	-		
Historical	2014	Actual	4	Board-approved	1	Actual			Board-approved		A	ctual	=	-	Board-approved	=
Historical	2015	Actual	4			Actual					A	ctual	=	-		
Historical	2016	Actual	4			Actual					A	ctual	=	-		
Historical	2017	Actual	4			Actual					A	ctual	=	-		
Bridge Year	2018	Forecast	4			Forecast					For	ecast	-	-		

Test Year	2019	Forecast 4		Forecast			Forecast	<u> </u>	- Filed:	Exhibit Page 65 of 9 April 30, 201
Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-over-year	Test Year Versus Board-approved	Year	Year-over-year		Test Year Versus Boar approved
	2013 2014 2015 2016 2017 2018 2019 Geometric Mean	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	300.0%	2013 2014 2015 2016 2017 2018 2019 Geometric Mean			2013 2014 2015 2016 2017 2018 2019 Geometric Mean			
	Calandar Vacr	Davanua			5	(1M)	_	Damand (Ida	N man Guataman	
	Calendar Year (for 2019 Cost of Service	Revenue	s		Actual (Weather normalized	weather- normalized		Actual Wea) per Customer ather- palized	Weather- normalize
Historical Historical Historical Historical Historical Bridge Year (Forecast) Test Year (Forecast)	2013 2014 2015 2016 2017 2018 2019	Actual Actual Board Actual Actual Actual Actual Forecast Forecast	d-approved	Actual Actual Actual Actual Actual Forecast	73,573 73,375 69,661 70,246 69,115 69,156 70,836 69,902 67,942 68,413 67,942 67,942	Board-approved 79,211	Actual Actual Actual Actual Actual Actual Forecast Forecast	18,393 18 17,415 17 17,279 17 17,709 17 16,985 17	,344 ,562 Board-approved ,289 ,476 ,103 ,985	
Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-over-year	Test Year Versus Board-approved	Year	Year-over-year		Test Yea Versus Boa approve
	2013 2014 2015 2016 2017 2018 2019 Geometric Mean			2013 2014 2015 2016 2017 2018 2019 Geometric	(5.3%) (4.3%) (0.8%) (1.6%) 2.5% 1.1% (4.1%) (2.1%) (0.7%) 0.0% (2.6%) (1.5%)	(14.2%)	2013 2014 2015 2016 2017 2018 2019 Geometric	(0.8%) (1. 2.5% 1. (4.1%) (2. (0.	3%) 6%) 1% 1%) 7%) 0%	(78
Customer Class:	Street Lights	Is the	customer class billed on consumpt	ion (kWh) or o	demand (kW or kVA)?	kW				
	Calendar Year (for 2019 Cost of Service	Connectio	ons		Actual (Weather actual) Consumption Weather	(kWh) ⁽³⁾ Weather- normalized		Actual Wea	Wh) per Connection other- alized	Weather normalize
Historical Historical Historical Historical Historical Bridge Year Fest Year	2013 2014 2015 2016 2017 2018 2019	Actual 15,453 Actual 15,512 Box Actual 15,539 Actual 15,726 Actual 16,024 Forecast 16,141 Forecast 16,260	ard-approved 15,627	Actual Actual Actual Actual Actual Forecast Forecast	11,262,943 11,232,615 11,406,116 11,501,976 11,394,266 11,400,995 11,108,606 10,962,092 8,378,434 8,436,505 6,672,112 5,367,464	Board-approved 11,394,439	Actual Actual Actual Actual Actual Forecast Forecast	729 7 735 7 733 7 706 6 523 5	27 41 Board-approved 34 97 26 13 30	729
/ariance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-over-year	Test Year Versus Board-approved	Year	Year-over-year		Test Yea Versus Bo approve
	2013 2014 2015 2016 2017 2018	0.4% 0.2% 1.2% 1.9% 0.7%		2013 2014 2015 2016 2017 2018	1.3% 2.4% (0.1%) (0.9%) (2.5%) (3.8%) (24.6%) (20.9%)		2013 2014 2015 2016 2017 2018	(0.3%) (1. (3.7%) (5. (26.0%) (24 (21	0% 0%) 0%) .5%)	
	2019 Geometric Mean	0.7% 1.0%	4.0%	2019 Geometric Mean	(19.6%) (9.4%) (13.7%)	(52.9%)	2019 Geometric Mean		.1%) .6%)	(54.7%

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	Calendar Year	Revenues								
	(for 2019 Cost of Service									
Historical	2013	Actual								
Historical	2014	Actual			Board-approved					
Historical	2015	Actual								
Historical	2016	Actual								
Historical	2017	Actual								
Bridge Year (Forecast)	2018	Forecast	\$	826,624						
Test Year (Forecast)	2019	Forecast	\$	529,738						

Demand (kW)									
	Actual (Weather actual)	Weather- normalized		Weather- normalized					
Actual	31,772	31,686							
Actual	31,886	32,154	Board-approved	30,534					
Actual	31,873	31,892							
Actual	31,300	30,887							
Actual	24,144	24,311							
Forecast		19,227							
Forecast		15,467							

	1 lied. 7(pm 66, 2616								
		Demai	nd (kW) per Co	nnection					
		Actual (Weather actual)	Weather- normalized		Weather- normalized				
ı	Actual	2	2						
	Actual	2	2	Board-approved	2				
	Actual	2	2						
	Actual	2	2						
	Actual	2	2						
	Forecast	-	1						
	Forecast	-	1						

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	201 <i>4</i>		
	2015		
	2016		
	2017		
	2018		
	2019	(35.9%)	
	Geometric Mean		

Year	Year-o	ver-year	Test Year Versus Board-approved	Year	Year-ov	er-year	Test Year Versus Board- approved
2013				2013			
2014	0.4%	1.5%		2014	(0.0%)	1.1%	
2015	(0.0%)	(0.8%)		2015	(0.2%)	(1.0%)	
2016	(1.8%)	(3.1%)		2016	(3.0%)	(4.3%)	
2017	(22.9%)	(21.3%)		2017	(24.3%)	(22.8%)	
2018		(20.9%)		2018	, ,	(21.5%)	
2019		(19.6%)	(49.3%)	2019		(20.1%)	(51.3%)
Geometric Mean	(8.7%)	(13.4%)	Ì	Geometric Mean	(9.8%)	(14.2%)	, ,

8 Customer Class:

Sentinel Lights

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kW

	Calendar Year		Con	nections					Consumption (′kWh) ⁽³⁾			Consump	tion (kWh) pe	Connection	
	(for 2019 Cost of Service							Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2013	Actual	191			Ad	ctual	152,803	152,392			Actual	802	800		
Historical	2014	Actual	189	Board-approved	218	Ad	ctual	146,515	147,747	Board-approved	200,000	Actual	777	784	Board-approved	917
Historical	2015	Actual	189			Ad	ctual	142,708	142,793			Actual	756	756		
Historical	2016	Actual	181			Ad	ctual	136,701	134,898			Actual	755	745		
Historical	2017	Actual	168			Ad	ctual	126,989	127,869			Actual	756	761		
Bridge Year	2018	Forecast	168			For	recast		126,989			Forecast	-	756		
Test Year	2019	Forecast	168			For	recast		126,989			Forecast	-	756		

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-o	ver-year	Test Year Versus Board-approved	Year	Year-ov	er-year	Test Year Versus Board- approved
	2013			2013				2013			
	2014	(1.1%)		2014	(4.1%)	(3.0%)		2014	(3.1%)	(2.0%)	
	2015	0.1%		2015	(2.6%)	(3.4%)		2015	(2.7%)	(3.5%)	
	2016	(4.1%)		2016	(4.2%)	(5.5%)		2016	(0.1%)	(1.5%)	
	2017	(7.2%)		2017	(7.1%)	(5.2%)		2017	0.1%	2.1%	
	2018	0.0%		2018		(0.7%)		2018		(0.7%)	
	2019	0.0%	(22.9%)	2019		0.0%	(36.5%)	2019		0.0%	(17.6%)
	Geometric Mean	(2.5%)	, ,	Geometric Mean	(6.0%)	(3.6%)	, i	Geometric Mean	(1.9%)	(1.1%)	, , ,

	Calendar Year	Revenues						
	(for 2019 Cost of Service							
Historical	2013	Actual						
Historical	2014	Actual			Board-approved			
Historical	2015	Actual						
Historical	2016	Actual						
Historical	2017	Actual						
Bridge Year (Forecast)	2018	Forecast	\$	14,573				
Test Year (Forecast)	2019	Forecast	\$	20,389				

	Demand (kW)										
	Actual (Weather actual)	Weather- normalized		Weather- normalized							
Actual	307	306									
Actual	293	295	Board-approved	574							
Actual	288	289									
Actual	417	411									
Actual	343	345									
Forecast		343									
Forecast		343									

	Demand (kW) per Connection										
	Actual (Weather actual)	Weather- normalized		Weather- normalized							
Actual	2	2									
Actual	2	2	Board-approved	3							
Actual	2	2									
Actual	2	2									
Actual	2	2									
Forecast	-	2									
Forecast	-	2									

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	2014		
	2015		
	2016		
	2017		
	2018		
	2019	39.9%	
	Geometric Mean		

Year	Year-over-year		Test Year Versus Board-approved	Year	Year-ov	er-year	Filed: Apriles Pyear ਨ Versus Board- approved
2013				2013			
2014	(4.6%)	(3.6%)		2014	(3.6%)	(2.5%)	
2015	(1.5%)	(2.2%)		2015	(1.6%)	(2.4%)	
2016	44.4%	42.4%		2016	50.6%	48.5%	
2017	(17.7%)	(16.0%)		2017	(11.3%)	(9.5%)	
2018	, ,	(0.7%)		2018	, ,	(0.7%)	
2019		0.0%	(40.3%)	2019		0.0%	(22.5%)
Geometric Mean	3.8%	2.3%	, ,	Geometric Mean	8.2%	4.9%	,

Unmetered Loads

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kWh

	Calendar Year		Con	nections				Consumption	(kWh) ⁽³⁾			Consump	tion (kWh) pe	r Connection	
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2013	Actual	534			Actua	2,430,645	2,424,100			Actual	4,552	4,540		
Historical	2014	Actual	531	Board-approved	533	Actua	2,451,442	2,472,045	Board-approved	1,842,943	Actual	4,617	4,655	Board-approved	3,458
Historical	2015	Actual	534			Actua	2,413,614	2,415,039			Actual	4,520	4,523		
Historical	2016	Actual	523			Actua	2,346,838	2,315,885			Actual	4,487	4,428		
Historical	2017	Actual	499			Actua	2,273,988	2,289,749			Actual	4,557	4,589		
Bridge Year	2018	Forecast	499			Forec	st	2,273,988			Forecast	-	4,557		
Test Year	2019	Forecast	499			Foreca	st	2,273,988			Forecast	-	4,557		

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-ove	r-year	Test Year Versus Board-approved	Year	Year-ov	er-year	Test Year Versus Board- approved
	2013			2013				2013			
	2014	(0.6%)		2014	0.9%	2.0%		2014	1.4%	2.6%	
	2015	0.6%		2015	(1.5%)	(2.3%)		2015	(2.1%)	(2.9%)	
	2016	(2.1%)		2016	(2.8%)	(4.1%)		2016	(0.7%)	(2.1%)	
	2017	(4.6%)		2017	(3.1%)	(1.1%)		2017	1.6%	3.6%	
	2018	0.0%		2018	, ,	(0.7%)		2018		(0.7%)	
	2019	0.0%	(6.4%)	2019		0.0%	23.4%	2019		0.0%	31.8%
	Geometric Mean	(1.3%)	,	Geometric Mean	(2.2%)	(1.3%)		Geometric Mean	0.0%	0.1%	

	Calendar Year	Revenues						
	(for 2019 Cost of Service							
Historical	2013	Actual						
Historical	2014	Actual			Board-approved			
Historical	2015	Actual						
Historical	2016	Actual						
Historical	2017	Actual						
Bridge Year (Forecast)	2018	Forecast	\$	64,042				
Test Year (Forecast)	2019	Forecast	\$	67,378				

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	2014		
	2015		
	2016		
	2017		
	2018		
	2019	5.2%	
	Geometric Mean		

Embedded Distributor - Hydro One, CND

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kW

	Calendar Year		Cı	ustomers				Consumption	(kWh) ⁽³⁾			Consum	ption (kWh) p	er Customer	
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2013	Actual	2			Actual	13,176,711	13,141,230			Actual	6,588,356	6,570,615		
Historical	2014	Actual	2	Board-approved	1	Actual	13,845,907	13,962,273	Board-approved	12,613,577	Actual	6,922,954	6,981,136	Board-approved	12,613,577
Historical	2015	Actual	2			Actual	13,548,203	13,556,204			Actual	6,774,101	6,778,102		
Historical	2016	Actual	2			Actual	13,027,612	12,855,788			Actual	6,513,806	6,427,894		
Historical	2017	Actual	2			Actual	12,605,162	12,692,528			Actual	6,302,581	6,346,264		
Bridge Year	2018	Forecast	2			Forecas	t	12,605,162			Forecast	-	6,302,581		
Test Year	2019	Forecast	2			Forecas	t	12,605,162			Forecast	-	6,302,581		

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-o	ver-year	Test Year Versus Board-approved	Year	Year-ov	er-year	Test Year Versus Board- approved
	2013			2013				2013			
	2014	0.0%		2014	5.1%	6.2%		2014	5.1%	6.2%	
	2015	0.0%		2015	(2.2%)	(2.9%)		2015	(2.2%)	(2.9%)	
	2016	0.0%		2016	(3.8%)	(5.2%)		2016	(3.8%)	(5.2%)	
	2017	0.0%		2017	(3.2%)	(1.3%)		2017	(3.2%)	(1.3%)	
	2018	0.0%		2018	,	(0.7%)		2018	, ,	(0.7%)	
	2019	0.0%	100.0%	2019		0.0%	(0.1%)	2019		0.0%	(50.0%)
	Geometric Mean	0.0%		Geometric Mean	(1.5%)	(0.8%)	,	Geometric Mean	(1.5%)	(0.8%)	,

	Calendar Year		Revenues						
	(for 2019 Cost of Service								
Historical	2013	Actual							
Historical	2014	Actual			Board-approved				
Historical	2015	Actual							
Historical	2016	Actual							
Historical	2017	Actual							
Bridge Year (Forecast)	2018	Forecast	\$	50,527					
Test Year (Forecast)	2019	Forecast	\$	46,546					

		Demand (kW)	
	Actual (Weather actual)	Weather- normalized		Weather- normalized
Actual	27,809	27,734		
Actual	28,706	28,948	Board-approved	29,869
Actual	28,843	28,860		
Actual	27,466	27,103		
Actual	24,387	24,556		
Forecast		24,387		
Forecast		24,387		

	Demand (kW) per Customer									
	Actual (Weather actual)	Weather- normalized		Weather- normalized						
Actual	13,904	13,867								
Actual	14,353	14,474	Board-approved	29,869						
Actual	14,422	14,430								
Actual	13,733	13,552								
Actual	12,194	12,278								
Forecast	-	12,194								
Forecast	-	12,194								

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	2014		
	2015		
	2016		
	2017		
	2018		
	2019	(7.9%)	
	Geometric Mean		

Year	Year-ov	/er-year	Test Year Versus Board-approved	Year	Year-ov	er-year	Test Year Versus Board- approved
2013				2013			
2014	3.2%	4.4%		2014	3.2%	4.4%	
2015	0.5%	(0.3%)		2015	0.5%	(0.3%)	
2016	(4.8%)	(6.1%)		2016	(4.8%)	(6.1%)	
2017	(11.2%)	(9.4%)		2017	(11.2%)	(9.4%)	
2018	,	(0.7%)		2018	, ,	(0.7%)	
2019		0.0%	(18.4%)	2019		0.0%	(59.2%)
Geometric Mean	(4.3%)	(2.5%)	, , , ,	Geometric Mean	(4.3%)	(2.5%)	,

Note: If there are more than ten (10) customer classes, please contact OEB Staff to add tables for additional customer classes.

1 Customer Class:

Embedded Distributor - Waterloo North, CND

kW		
1 X V V		

	Calendar Year		Customers			Consumption (kWh) (3)					Consumption (kWh) per Customer				
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2013	Actual	1			Actual					Actua	-	-		
Historical	2014	Actual	1	Board-approved	1	Actual			Board-approved		Actua	-	=	Board-approved	=
Historical	2015	Actual	1			Actual					Actua	-	=		
Historical	2016	Actual	1			Actual					Actua	-	-		

Energy+ Inc. EB-2018-0028 Exhibit 3

															Exhibit 3
Historical Bridge Year Test Year	2017 2018 2019	Actual Forecast Forecast	1 1 1			Actual Forecast Forecast					Actual Forecast Forecast	- - -	- - -		Page 69 of 9 April 30, 201
Variance Analysis	Year		Year-over-year		Test Year Versus Board- approved	Year	Year-o	ver-year		Test Year Versus Board-approved	Year	Year-o	/er-year		Test Year Versus Boar approved
	2013 2014 2015 2016 2017 2018 2019 Geometric Mean		0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		0.0%	2013 2014 2015 2016 2017 2018 2019 Geometric Mean					2013 2014 2015 2016 2017 2018 2019 Geometric Mean				
	Colondor Voor		Do	venues				Damand	(1-14/)			Dom	and (IsM) nor (Customor	
	Calendar Year (for 2019 Cost of Service		Ke	venues			Actual (Weather	Demand (Weather- normalized	(KW)	Weather- normalized		Actual (Weather	and (kW) per (Weather- normalized		Weather- normalize
Historical Historical Historical Historical Historical Historical Bridge Year (Forecast) Test Year (Forecast)	2013 2014 2015 2016 2017 2018 2019	Actual Actual Actual Actual Actual Forecast Forecast	\$ 221,287 \$ 162,497	Board-approved		Actual Actual Actual Actual Actual Forecast Forecast	92,130 106,790 108,929 121,168 114,657	91,882 107,687 108,993 119,570 115,452 114,657 114,657	Board-approved	72,975	Actual Actual Actual Actual Actual Actual Forecast Forecast	actual) 92,130 106,790 108,929 121,168 114,657	91,882 107,687 108,993 119,570 115,452 114,657	Board-approved	72,975
Variance Analysis					Test Year										Test Year
	Year		Year-over-year		Versus Board- approved	Year	Year-o	ver-year		Test Year Versus Board-approved	Year	Year-o	er-year		Versus Boar
	2013 2014 2015 2016 2017 2018 2019 Geometric Mean		(26.6%)			2013 2014 2015 2016 2017 2018 2019 Geometric Mean	15.9% 2.0% 11.2% (5.4%)	17.2% 1.2% 9.7% (3.4%) (0.7%) 0.0% 4.5%		57.1%	2013 2014 2015 2016 2017 2018 2019 Geometric Mean	15.9% 2.0% 11.2% (5.4%)	17.2% 1.2% 9.7% (3.4%) (0.7%) 0.0% 4.5%		57.1%
Customer Class:	Embedded Distribut	tor - Brantford Pow	er, BCP	Is the customer clas	ss billed on consum	ption (kWh) or o	demand (kW or l	kVA)?	kW]					
	Calendar Year		Cus	stomers				Consumption	(kWh) ⁽³⁾			Consum	ption (kWh) p	er Customer	
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized	,	Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical Historical Historical Historical Historical Bridge Year Test Year	2013 2014 2015 2016 2017 2018 2019	Actual Actual Actual Actual Actual Forecast Forecast	1 1 1 1 1 1	Board-approved	1	Actual Actual Actual Actual Actual Forecast Forecast	356,273 338,022 352,068 380,114 347,757	355,314 340,863 352,276 375,101 350,167 347,757 347,757	Board-approved	370,434	Actual Actual Actual Actual Actual Forecast Forecast	356,273 338,022 352,068 380,114 347,757	355,314 340,863 352,276 375,101 350,167 347,757	Board-approved	370,434
Variance Analysis	Year		Year-over-year		Test Year Versus Board- approved	Year	Year-c	ver-year		Test Year Versus Board-approved	Year	Year-o	er-year		Test Year Versus Boar approved
	2013 2014 2015 2016 2017 2018		0.0% 0.0% 0.0% 0.0% 0.0%		approvou	2013 2014 2015 2016 2017 2018	(5.1%) 4.2% 8.0% (8.5%)	(4.1%) 3.3% 6.5% (6.6%) (0.7%)			2013 2014 2015 2016 2017 2018	(5.1%) 4.2% 8.0% (8.5%)	(4.1%) 3.3% 6.5% (6.6%) (0.7%)		<u>арр. 0 той</u>

Energy+ Inc. EB-2018-0028 Exhibit 3

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2019	0.0%	0.0%	2019	0.0%	(6.1%)	2019		0.0%
Geometric Mean	0.0%		Geometric Mean	(0.8%) (0.4%)		Geometric Mean	(0.8%)	(0.4%)

	Calendar Year		Revenues								
	(for 2019 Cost of Service										
Historical	2013	Actual									
Historical	2014	Actual			Board-approved						
Historical	2015	Actual									
Historical	2016	Actual									
Historical	2017	Actual									
Bridge Year (Forecast)	2018	Forecast	\$	5,388							
Test Year (Forecast)	2019	Forecast	\$	14,945							

	Demand (kW)											
	Actual (Weather actual)	Weather- normalized		Weather- normalized								
Actual	31	31										
Actual	95	95	Board-approved	38								
Actual	95	96										
Actual	1,313	1,296										
Actual	1,075	1,082										
Forecast		1,075										
Forecast		1,075										

	Demand (kW) per Customer											
	Actual (Weather actual)	Weather- normalized		Weather- normalized								
Actual	31	31										
Actual	95	95	Board-approved	38								
Actual	95	96										
Actual	1,313	1,296										
Actual	1,075	1,082										
Forecast	-	1,075										
Forecast	-	1,075										

Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved
	2013		
	2014		
	2015		
	2016		
	2017		
	2018		
	2019	177.4%	
	Geometric Mean		

Year	Year-over-year		Test Year Versus Board-approved	Year	Year-ov	er-year	Test Year Versus Board- approved
2013				2013			
2014	204.9%	208.3%		2014	204.9%	208.3%	
2015	0.8%	0.1%		2015	0.8%	0.1%	
2016	1275.7%	1256.8%		2016	1275.7%	1256.8%	
2017	(18.1%)	(16.5%)		2017	(18.1%)	(16.5%)	
2018		(0.7%)		2018	, ,	(0.7%)	
2019		0.0%	2728.8%	2019		0.0%	2728.8%
Geometric Mean	225.9%	103.3%		Geometric Mean	225.9%	103.3%	

3 Customer Class:

Embedded Distributor - Hydro One #1, BCP

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kW

	Calendar Year		Cu	stomers			Consumption (kWh) (3)					Consumption (kWh) per Customer				
	(for 2019 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized	
Historical	2013	Actual	1			Actual	13,883,197	13,845,814			Actual	13,883,197	13,845,814			
Historical	2014	Actual	1	Board-approved	1	Actual	12,996,387	13,105,613	Board-approved	13,588,775	Actual	12,996,387	13,105,613 B	Board-approved	13,588,775	
Historical	2015	Actual	1			Actual	13,819,342	13,827,503			Actual	13,819,342	13,827,503			
Historical	2016	Actual	1			Actual	13,560,292	13,381,442			Actual	13,560,292	13,381,442			
Historical	2017	Actual	1			Actual	12,191,720	12,276,220			Actual	12,191,720	12,276,220			
Bridge Year	2018	Forecast	1			Forecast		12,191,720			Forecast	-	12,191,720			
Test Year	2019	Forecast	1			Forecast		12,191,720			Forecast	=	12,191,720			

Variance Analysis	Year Year-over-year		Test Year Versus Board- approved	Year	Year-o	ver-year	Test Year Versus Board-approved	Year	Year-ov	er-year	Test Year Versus Board- approved
	2013			2013				2013			
	2014	0.0%		2014	(6.4%)	(5.3%)		2014	(6.4%)	(5.3%)	
	2015	0.0%		2015	6.3%	5.5%		2015	6.3%	5.5%	
	2016	0.0%		2016	(1.9%)	(3.2%)		2016	(1.9%)	(3.2%)	
	2017	0.0%		2017	(10.1%)	(8.3%)		2017	(10.1%)	(8.3%)	
	2018	0.0%		2018		(0.7%)		2018		(0.7%)	
	2019	0.0%	0.0%	2019		0.0%	(10.3%)	2019		0.0%	(10.3%)
	Geometric Mean	0.0%		Geometric Mean	(4.2%)	(2.5%)		Geometric Mean	(4.2%)	(2.5%)	

	Calendar Year (for 2019 Cost		Revenues
	of Service		
Historical	2013	Actual	
Historical	2014	Actual	Board-approved
Historical	2015	Actual	
Historical	2016	Actual	

Demand (kW)								
	Actual (Weather actual)	Weather- normalized		Weather- normalized				
Actual	31,865	31,779						
Actual	31,822	32,090	Board-approved	26,712				
Actual	30,827	30,845						
Actual	29,428	29,040						

	Demand (kW) per Customer									
	Actual (Weather actual)	Weather- ner normalized		Weather- normalized						
Actual	31,865	31,779								
Actual	31,822	32,090	Board-approved	26,712						
Actual	30,827	30,845								
Actual	29,428	29,040								

6.6% 9.5%

(29.1%) 5.1% (0.7%)

10.3%

(28.1%) 3.0%

2015

2016

2017

2018

Bridge Year (Forecast) Test Year (Forecast)	2017 2018 2019	Actual Forecast \$ 119,034 Forecast \$ 34,138		Actual Forecast Forecast	29,011	29,212 29,995 29,995			Actual Forecast Forecast	29,011 - -	29,212 29,995 29,995		Page 71 of 9 April 30, 201
Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-c	ver-year		Test Year Versus Board-approved	Year	Year-ov	er-year		Test Year Versus Boar approved
	2013 2014 2015 2016 2017 2018 2019 Geometric Mean	(71.3%)		2013 2014 2015 2016 2017 2018 2019 Geometric Mean	(0.1%) (3.1%) (4.5%) (1.4%)	1.0% (3.9%) (5.9%) 0.6% 2.7% 0.0% (1.1%)		12.3%	2013 2014 2015 2016 2017 2018 2019 Geometric Mean	(0.1%) (3.1%) (4.5%) (1.4%)	1.0% (3.9%) (5.9%) 0.6% 2.7% 0.0% (1.1%)		12.3%
Customer Class:	Embedded Distribute	or - Hydro One #2, BCP	ner class billed on consump	otion (kWh) or	demand (kW or I	tVA)?	kW						
	Calendar Year	Customers	_			Consumption	ı (kWh) ⁽³⁾			Consum	ption (kWh) po	er Customer	
	(for 2019 Cost of Service				Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalize
Historical Historical Historical Historical Historical Bridge Year Test Year	2013 2014 2015 2016 2017 2018 2019	Actual 4 Actual 4 Board-app Actual 4 Actual 4 Actual 4 Actual 4 Forecast 4 Forecast 4	roved 4	Actual Actual Actual Actual Actual Forecast Forecast	52,117,102 51,485,741 62,339,455 46,050,289 43,274,122	51,976,766 51,918,445 62,376,272 45,442,921 43,574,052 43,274,122 43,274,122	Board-approved	51,976,766	Actual Actual Actual Actual Actual Actual Forecast Forecast	13,029,275 12,871,435 15,584,864 11,512,572 10,818,530	12,994,191 12,979,611 15,594,068 11,360,730 10,893,513 10,818,530 10,818,530	Board-approved	12,994,19
Variance Analysis	Year	Year-over-year	Test Year Versus Board- approved	Year	Year-o	ver-year		Test Year Versus Board-approved	Year	Year-ov	er-year		Test Year Versus Boar approved
	2013 2014 2015 2016 2017 2018 2019 Geometric Mean	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0.0%	2013 2014 2015 2016 2017 2018 2019 Geometric Mean	(1.2%) 21.1% (26.1%) (6.0%)	(0.1%) 20.1% (27.1%) (4.1%) (0.7%) 0.0% (3.6%)		(16.7%)	2013 2014 2015 2016 2017 2018 2019 Geometric Mean	(1.2%) 21.1% (26.1%) (6.0%)	(0.1%) 20.1% (27.1%) (4.1%) (0.7%) 0.0% (3.6%)		(16.7%)
				ivieari					ivieari				
	Calendar Year	Revenues				Demand	(kW)			Dema	nd (kW) per C	Customer	
	(for 2019 Cost of Service				Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
	2013 2014	Actual Actual Board-app Actual	roved	Actual Actual Actual Actual	119,621 126,065 139,060 99,936	119,299 127,124 139,142 98,618	Board-approved	100,541	Actual Actual Actual Actual Actual	29,905 31,516 34,765 24,984 25,743	29,825 31,781 34,786 24,655 25,922	Board-approved	25,135
Historical Historical Historical Historical Historical Bridge Year (Forecast) Test Year (Forecast)	2015 2016 2017 2018 2019	Actual Actual Forecast \$ 4,655 Forecast \$ 2,838		Actual Forecast Forecast	102,973	103,687 102,973 102,973			Forecast Forecast		25,743 25,743		
Historical Historical Historical Historical Bridge Year (Forecast)	2016 2017 2018	Actual \$ 4,655	Test Year Versus Board- approved	Forecast		102,973		Test Year Versus Board-approved	Forecast	-	25,743 25,743		Test Year Versus Boar approved

6.6% 9.5% (29.1%) 5.1% (0.7%)

10.3%

(28.1%) 3.0%

2015

2016 2017 2018

2015

2016

2017

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2019 (39.0%)

Geometric Mean (39.0%)

2019 0.0%

Geometric Mean (4.9%) (2.9%)

(4.9%) (2.9%)

(4.9%) (2.9%)

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3

2 APPENDIX 3-3: OEB APPENDIX 2-I LOAD FORECAST CDM ADJUSTMENT WORKFORM

2021 File
Ext

File Number: EB-2018-0028
Exhibit: 1
Tab: Schedule: Page:

Date:

27-Apr-18

Appendix 2-I Load Forecast CDM Adjustment Work Form (2019)

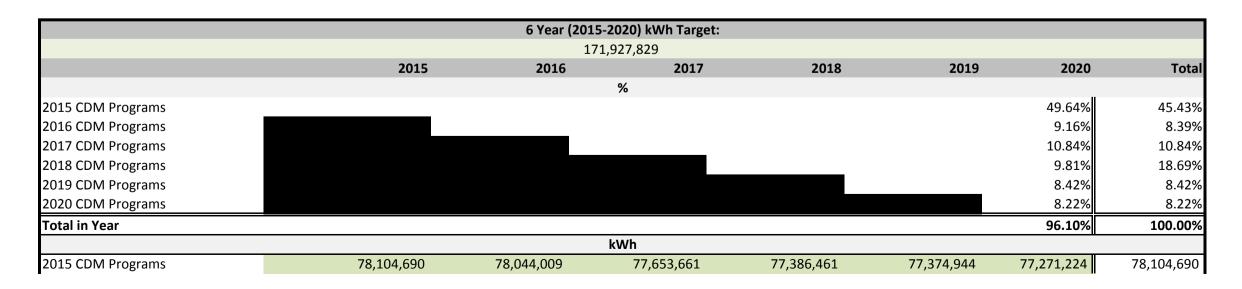
Appendix 2-I was initially developed to help determine what would be the amount of CDM savings needed in each year to cumulatively achieve the four year 2011-2014 CDM target. This then determined the amount of kWh (and with translation, kW of demand) savings that were converted into dollar balances for the LRAMVA, and also to determine the related adjustment to the load forecast to account for OPA-reported savings. Beginning in the 2015 year, it has been adjusted because the persistence of 2011-2014 CDM programs will be an adjustment to the load forecast in addition to the estimated savings for the first year (2015) for the new 2015-2020 CDM plan.

2019 is the fifth year of the six-year (2015-2020) Conservation First program. Final results for the 2011-14 program were issued in the fall of 2015, and the program is completed, although in some instances disposition of the amounts has been deferred. For the purposes of the 2015-2020 LRAMVA, and the impact of CDM on the load forecast, CDM programs in 2014 and earlier are implicit in the historical data on which the base load forecast is developed. Only actual and forecasted impacts of 2015 to 2019 CDM programs need to be reflected in the manual load forecast adjustment and for the LRAMVA threshold amount in 2019 and carrying forward, although the full year impact of 2015 CDM programs and half-year impact of 2016 CDM programs on 2016 historical data is also assumed to be reflected in the base load forecast.

The new six year (2015-2020) CDM program works in a slightly different manner to the previous 2011-2014 CDM program. Distributors will offer programs each year that, over the six years (from January 1, 2015 to December 31, 2020) will strive to achieve savings equal to the new six year CDM target with the full target in place (i.e., persisting) on December 31, 2020. In other words, distributors will be able to offer and execute programs on a basis so that, as long as savings equal to the full target are in place at the end the period, the distributor's 2015-2020 CDM target will have been met.

2015-2020 CDM Program - 2019 fifth year of the current CDM plan

For the first year of the new 2015-2020 CDM plan, it is assumed that each year's program will achieve an equal amount of new CDM savings. This results in each year's program being about 1/6 (16.67%) of the cumulative 2015-2020 CDM target for kWh savings. A distributor may propose an alternative approach but would be expected to document in its application why it believes that its proposal is more reasonable. In its proposal, the distributor should ensure that the sum of the results for each year's CDM program from 2015 to 2020 add up to its 2015-2020 CDM target as established by the IESO.



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2016 CDM Programs		14,426,704	14,252,795	14,252,795	14,252,795	14,252,795	14,426,704
2017 CDM Programs			18,641,598	18,641,598	18,641,598	18,641,598	18,641,598
2018 CDM Programs				32,139,659	16,869,659	16,869,659	32,139,659
2019 CDM Programs					14,478,178	14,478,178	14,478,178
2020 CDM Programs						14,137,000	14,137,000
Total in Year	78,104,690	92,470,713	110,548,054	142,420,513	141,617,174	155,650,454	171,927,829

Note: The default formula in the above table assume that the 2015-2020 kWh CDM target is achieved through persistence of CDM savings to the end of 2020. The distributor should enter measured CDM savings for 2015, and persistence of 2015 programs for 2016-2020 in row 34. When available, (preliminary/final) CDM savings for 2016 can be entered into row 35. The distributor can also input estimates or forecasts of the 2017 CDM programs if it believes that these are more realistic and can be supported; such information would typically be derived from the CDM plans that the distributor has filed with the IESO. Similarly, CDM savings and persistence into future years can be estimated for 2018, 2019 and 2020 CDM programs. However, the distributor will have to support its proposals for estimated or forecasted savings, particularly beyond the 2018 bridge year. The sum of persistent savings to the end of 2020, should equal the target entered into cell A23.

Determination of 2018 Load Forecast Adjustment

The Board determined that the "net" number should be used in its Decision and Order with respect to Centre Wellington Hydro Ltd.'s 2013 Cost of Service rates (EB-2012-0113). This approach has also been used in Settlement Agreements accepted by the Board in other 2013 and 2014 applications. The distributor should select whether the adjustment is done on a "net" or "gross" basis, but must support a proposal for the adjustment being done on a "gross" basis. Sheet 2-I defaults to the adjustment being done on a "net" basis consistent with Board policy and practice.

From each of the 2006-2010 CDM Final Report, and the 2011 to 2016 CDM Final Reports, issued by the OPA/IESO for the distributor, the distributor should input the "gross" and "net" results of the cumulative CDM savings for 2018 into cells C57 to C63 and D57 to D63. The model will calculate the cumulative savings for all programs from 2006 to 2016 and determine the "net" to "gross" factor "g".

	Net-to-Gross Convers	ion		
Is CDM adjustment being done on a "net" or "gross" basis?				net
Persistence of Historical CDM programs to 2015	"Gross" kWh	"Net" kWh	Difference kWh	"Net-to-Gross" Conversion Factor ('g')
2006-2010 CDM programs				
2011 CDM program				
2012 CDM program				
2013 CDM program				
2014 CDM program				
2015 CDM program				
2016 CDM program				
2006 to 2016 OPA CDM programs: Persistence to 2018.	0		0	0 1.00

The default values below represent the factor used for how each year's CDM program is factored into the manual CDM adjustment. Distributors can choose alternative weights of "0", "0.5" or "1" from the drop-down menu for each cell, but must support its alternatives.

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These factors do not mean that CDM programs are excluded, but the assumption that impacts of previous year CDM programs are already implicitly reflected in the actual data for historical years that are used to derive the load forecast prior to any manual CDM adjustment for the 2019 test year.

Weight Factor for Inclusion in CDM Adjustment to 2018 Load Forecast

	2015	2016	2017	2018	2019	2020	
Weight Factor for each year's CDM program impact on 2019 load forecast	0	0	0	1	0.5	0	Distributor can select "0", "0.5", or "1" from drop- down list
Default Value selection rationale.	Full year impact of 2015 CDM is assumed to be reflected in the base forecast, as the full year persistence of 2015 CDM programs is in the 2016 historical actual data. No further impact is necessary for the manual adjustment to the load forecast.	Full year impact of 2016 CDM is assumed to be reflected in the base forecast, as the full year persistence of 2016 CDM programs is in the 2017 historical actual data. No further impact is necessary for the manual adjustment to the load forecast.	Full year impact of 2017 CDM is assumed to be reflected in the base forecast.	Full year impact of persistence of 2018 programs on 2019 load forecast. 2018 CDM program impacts are not in the base forecast.	Only 50% of 2019 CDM programs are assumed to impact the 2019 load forecast based on the "half-year" rule.		

2015-2020 LRAMVA and 2018 CDM adjustment to Load Forecast

One manual adjustment for CDM impacts to the 2018 load forecast is made. There is a different but related threshold amount that is used for the 2019 LRAMVA amount for Account 1568.

The amount used for the CDM threshold of the LRAMVA is the kWh that will be used to determine the base amount for the LRAMVA balance for 2018, for assessing performance against the six-year target.

If used to determine the manual CDM adjustment for the system purchased kWh, the proposed loss factor should correspond with the proposed total loss factor calculated in Appendix 2-R.

The Manual Adjustment for the 2019 Load Forecast is the amount manually subtracted from the system-wide load forecast (either based on a purchased or billed basis) derived from the base forecast from historical data. If the distributor has developed their load forecast on a system purchased basis, then the manual adjustment should be on a system purchased basis, including the adjustment for losses. If the load forecast has been developed on a billed basis, either on a system basis or on a class-specific basis, the manual adjustment should be on a billed basis, excluding losses.

The distributor should determine the allocation of the savings to all customer classes in a reasonable manner (e.g. taking into account what programs and what IESO-measured impacts were directed at specific customer classes), for both the LRAMVA and for the load forecast adjustment.

2015	2016	2017	2018	2019	2020	Total for 2019

			16,869,659	14,478,178		31,347,837
-	-	-	16,869,659	7,239,089		24,108,748
-	-	-	16,869,659	7,239,089		24,108,748
				16,869,659	16,869,659 7,239,089	16,869,659 7,239,089

Manual adjustment uses "gross" versus "net" (i.e. numbers multiplied by (1 + g). The Weight factor is also used to calculate the impact of each year's program on the CDM adjustment to the 2018 load forecast.

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APPENDIX 3-4: 2019 ENERGY+ LOAD FORECAST MODEL_V3

1 2

Actual kWh Purchases Predicted kWh Purchases % Difference CDM Purchase Adjustment Predicted kWh Purchases after CDM	2010 Actual 1,761,921,851 1,750,181,987 -0.7%	2011 Actual 1,767,032,101 1,771,238,583 0.2%	2012 Actual 1,775,157,464 1,788,477,370 0.8%	, , ,	2014 Actual 1,782,419,695 1,764,743,832 -1.0%	2015 Actual 1,777,379,399 1,777,115,136 0.0%		, , ,	2018 Bridg@G Filed: Apri 1,675,356,044 (16,522,777) 1,658,833,266	I 30, 2018 1,677,252,320 (24,788,283)
Billed kWh Waterloo North Total	1,700,869,074 0 1,700,869,074	0	1,721,439,858 0 1,721,439,858	1,745,480,851 45,983,610 1,791,464,461	58,781,039	60,363,736	61,404,044	58,104,381	1,613,358,743 58,104,381 1,671,463,124	58,104,381
By Class Residential Customers kWh	53,054 476,486,462	54,019 478,456,723	54,633 479,247,118	55,070 464,848,343	55,463 477,025,968	55,922 486,541,296	56,561 479,944,152	57,272 453,855,075	57,970 465,920,846	58,677 466,068,279
General Service < 50 kW Customers kWh	5,893	5,932	5,980	6,004	6,057	6,149	6,241	6,298	6,374	6,451
	199,237,830	194,492,494	194,297,829	193,717,267	198,149,245	203,100,575	212,807,519	189,005,848	192,724,357	195,276,256
General Service > 50 to 999 kW Customers kWh kW	803	822	839	840	825	808	806	796	798	800
	486,523,861	500,487,578	501,135,345	518,348,767	494,277,242	485,904,146	484,199,963	487,037,522	494,297,087	493,112,062
	1,535,992	1,559,458	1,578,630	1,568,193	1,605,303	1,555,819	1,564,561	1,518,753	1,559,982	1,556,242
General Service > 1000 to 4999 kW Customers kWh kW	31	33	32	30	29	29	29	28	27	27
	250,459,340	269,851,932	256,008,219	270,280,543	263,042,176	263,255,330	261,804,628	241,351,905	237,019,612	231,017,192
	646,504	659,131	606,302	586,435	581,849	581,153	631,904	574,484	556,266	542,178
Large User Customers kWh kW	2 196,557,281 421,436	2 169,195,800 431,699	2 201,189,505 483,777	3 204,906,257 425,912	3 205,265,395 457,867	2 207,374,362 430,087	2 151,250,312 358,566	2 146,226,388 348,189	2 145,904,992 332,575	2 145,503,126 382,038
Direct Market Participant Customers kW	4	4	4	4	4	4	4	4	4	4
	75,928	81,848	81,651	73,573	69,661	69,115	70,836	67,942	67,942	67,942
Street Lights Connections kWh kW	15,199	15,264	15,362	15,453	15,512	15,539	15,726	16,024	16,141	16,260
	11,228,686	11,229,393	11,359,959	11,262,943	11,406,116	11,394,266	11,108,606	8,378,434	6,672,112	5,367,464
	31,415	31,403	31,677	31,772	31,886	31,873	31,300	24,144	19,227	15,467
Sentinel Lights Connections kWh kW	219	189	177	191	189	189	181	168	168	168
	175,284	164,006	178,406	152,803	146,515	142,708	136,701	126,989	126,989	126,989
	487	228	311	307	293	288	417	343	343	343
Unmetered Loads Connections kWh	589 2,609,945	565 2,512,919	538 2,457,458	534 2,430,645	531 2,451,442	534 2,413,614	523 2,346,838	499 2,273,988	499 2,273,988	499 2,273,988
Embedded Distributor - Hydro One, CND Customers	2	2	2	2	2	2	2	2	2	2

kWh kW	13,614,985 27,708	13,478,594 28,171	13,008,529 29,053	13,176,711 27,809	13,845,907 28,706	13,548,203 28,843	13,027,612 27,466	12,605,162 24,387	12,605,1 62 9 F ile.d 87Apri	
Embedded Distributor - Waterloo North, CND Customers	1	1	1	1	1	1	1	1	1	1
kWh kW	0 73,663	0 78,980	0 70,982	45,983,610 92,130	58,781,039 106,790	60,363,736 108,929	61,404,044 121,168	58,104,381 114,657	58,104,381 114,657	58,104,381 114,657
Embedded Distributor - Brantford Power, BCP										
Customers kWh kW	1 373,339 10	1 373,339 44	1 374,823 88	1 356,273 31	1 338,022 95	1 352,068 95	1 380,114 1,313	1 347,757 1,075	1 347,757 1,075	1 347,757 1,075
Embedded Distributor - Hydro One #1, BCP	10	44	00	31	93	93	1,313	1,075	1,073	1,075
Customers	1	1	1	1	1	1	1	1	1	1
kWh kW	13,348,829 29,200	13,695,350 31,128	9,863,707 24,429	13,883,197 31,865	12,996,387 31,822	13,819,342 30,827	13,560,292 29,428	12,191,720 29,011	12,191,720 29,995	12,191,720 29,995
Embedded Distributor - Hydro One #2, BCP										
Customers kWh	4	4	4	4	4	4	4	4	4	42.274.422
kW - Estimated	50,253,230 109,926	51,547,773 117,161	52,318,962 129,577	52,117,102 119,621	51,485,741 126,065	62,339,455 139,060	46,050,289 99,936	43,274,122 102,973	43,274,122 102,973	43,274,122 102,973
Total										
Customer/Connections	75,802	76,839	77,577	78,137	78,621	79,184	80,081	81,099	81,993	82,897
kWh	1,700,869,074	1,705,485,901	1,721,439,858	1,791,464,461	1,789,211,194	1,810,549,098			1,671,463,124	1,665,268,498
kW from applicable classes	2,952,269	3,019,251	3,036,478	2,957,647	3,040,337	2,976,090	2,936,895	2,805,958	2,809,421	2,837,297

Enegy+, BCP Component Weather Normal Load Forecast for 2019 Rate Application

										Filed: April
Actual kWh Purchases	2010 Actual 291,433,060	2011 Actual 293,737,263	2012 Actual 293,429,507	2013 Actual 301,042,483	2014 Actual 303,815,429	2015 Actual 293,516,037	2016 Actual 298,126,493	2017 Actual 286,507,172	2018 Bridge	2019 Test
Billed kWh	271,869,208	278,419,410	273,767,432	282,638,929	284,646,659	285,243,240	288,991,554	270,576,406		
By Class Residential										
Customers kWh	8,133 80,219,627	8,239 81,900,003	8,350 79,659,540	8,432 79,931,655	8,520 81,545,698	8,600 85,209,274	8,731 83,373,122	8,896 79,607,417	9,004 72,367,563	9,114 72,390,462
General Service < 50 kW										
Customers kWh	1,289 35,757,938	1,303 36,170,425	1,319 35,702,794	1,308 37,126,640	1,298 37,605,274	1,298 35,949,071	1,320 42,681,652	1,339 36,754,537	1,355 40,977,835	1,372 41,520,430
General Service > 50 to 999 kW Customers	95	99	102	104	106	112	113	108	108	108
kWh kW	60,010,106 241,129	63,328,541 227,627	63,734,065 227,979	65,991,245 232,198	67,781,851 241,040	49,488,193 223,090	68,085,065 237,320	62,964,842 223,544	66,754,946 210,676	66,594,908 210,171
General Service > 1000 to 4999 kW Customers	5	5	5	5	5	6	6	6	6	6
kWh kW	29,541,672 76,444	29,084,757 76,749	29,778,280 78,355	30,941,353 83,762	30,595,621 82,927	35,805,421 95,927	38,677,613 102,692	34,140,289 107,785	50,789,917 119,200	49,503,684 116,181
Street Lights Connections	2.640	2,640	2,640	2.640	2,640	2.640	2,784	2,930	2,951	2,973
kWh kW	1,709,481 4,801	1,709,907 4,799	1,714,788 4,800	1,696,593 4,801	1,709,481 4,801	1,697,632 4,776	1,461,959 4,411	750,582 2,314	597,721 1,843	480,844 1,483
Sentinel Lights	040	400	477	101	400	400	404	400	400	100
Connections kWh kW	219 175,284 487	189 164,006 228	177 178,406 311	191 152,803 307	189 146,515 293	189 142,708 288	181 136,701 417	168 126,989 343	168 126,989 343	168 126,989 343
Unmetered Loads	5 4	50	40	40	40	40	40	47	47	47
Connections kWh	51 479,703	50 445,308	48 442,068	48 442,068	49 442,068	49 440,075	48 420,658	47 418,152	47 214,183	47 214,183
Embedded Distributor - Brantford Power, BCP Customers	1	1	1	1	1	1	1	1	1	1
kWh kW	373,339 10	373,339 44	374,823 88	356,273 31	338,022 95	352,068 95	380,114 1,313	347,757 1,075	347,757 1,075	347,757 1,075
Embedded Distributor - Hydro One #1, BCP										,
Customers kWh	1 13,348,829	1 13,695,350	1 9,863,707	1 13,883,197	1 12,996,387	1 13,819,342	1 13,560,292	1 12,191,720	1 12,191,720	1 12,191,720
kW Embedded Distributor - Hydro One #2, BCP	29,200	31,128	24,429	31,865	31,822	30,827	29,428	29,011	29,995	29,995
Customers	4	4	4	4	4	4	4	4	4	4
kWh kW - Estimated	50,253,230 109,926	51,547,773 117,161	52,318,962 129,577	52,117,102 119,621	51,485,741 126,065	62,339,455 139,060	46,050,289 99,936	43,274,122 102,973	43,274,122 102,973	43,274,122 102,973
Total										
Customer/Connections kWh	12,439 271,869,208	12,531 278,419,410	12,648 273,767,432	12,733 282,638,929	12,812 284,646,659	12,899 285,243,240	13,188 294,827,466	13,499 270,576,406	13,645 287,642,752	13,793 286,645,099
kW from applicable classes	461,997	457,735	465,540	472,585	487,042	494,063	475,518	467,045	466,104	462,220

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Enegy+: CND Component Weather Normal Load Forecast for 2019 Rate Application

Filed: April 30, 2018

										Filed: A
Actual kWh Purchases	2010 Actual 1,470,488,791	2011 Actual 1,473,294,838	2012 Actual 1,481,727,957	2013 Actual 1,479,631,641	2014 Actual 1,478,604,266	2015 Actual 1,483,863,362	2016 Actual 1,424,060,763	2017 Actual 1,357,075,175	2018 Bridge	2019 Test
Billed kWh Est for Waterloo Billed kWh incl Est for Waterloo	1,428,999,866 36,195,843 1,465,195,709	1,427,066,491 37,787,891 1,464,854,382	31,782,231	43,655,944	51,508,550	1,464,942,122 51,165,900 1,516,108,022	56,963,024	1,326,098,504 58,104,381 1,384,202,885		
By Class										
Residential Customers kWh	44,921 396,266,835	45,781 396,556,720	46,284 399,587,578	46,638 384,916,688	46,944 395,480,270	47,322 401,332,022	47,830 396,571,030	48,376 374,247,658	48,966 393,553,283	49,563 393,677,816
General Service < 50 kW										
Customers kWh	4,604 163,479,893	4,630 158,322,069	4,661 158,595,034	4,696 156,590,626	4,759 160,543,971	4,852 167,151,504	4,921 170,125,867	4,959 152,251,310	5,018 151,746,522	5,079 153,755,826
General Service > 50 to 999 kW Customers	708	724	737	736	719	696	693	689	690	692
kWh kW	426,513,756 1,294,863	437,159,036 1,331,831	437,401,279 1,350,651	452,357,522 1,335,995	426,495,391 1,364,263	436,415,952 1,332,730	416,114,898 1,327,240	424,072,680 1,295,209	427,542,141 1,349,306	426,517,154 1,346,071
General Service > 1000 to 4999 kW										
Customers kWh	26 220,917,668	28 240,767,175	27 226,229,939	25 239,339,190	24 232,446,555	24 227,449,908	23 223,127,015	22 207,211,616	22 186,229,695	21 181,513,508
kW	570,060	582,383	527,947	502,673	498,923	485,226	529,212	466,699	437,066	425,997
Large User Customers	2	2	2	3	3	2	2	2	2	2
kWh kW	196,557,281 421,436	169,195,800 431,699	201,189,505 483,777	204,906,257 425,912	205,265,395 457,867	207,374,362 430,087	151,250,312 358,566	146,226,388 348,189	145,904,992 332,575	145,503,126 382,038
Direct Market Participant										
Customers kW	4 75,928	4 81,848	4 81,651	4 73,573	4 69,661	4 69,115	4 70,836	4 67,942	4 67,942	4 67,942
Street Lights Connections	12,559	12,624	12,722	12,813	12,872	12,899	12,943	13,095	13,190	13,287
kWh kW	9,519,206 26,614	9,519,486 26,604	9,645,171 26,876	9,566,350 26,970	9,696,634 27,085	9,696,633 27,097	9,646,647 26,889	7,627,852 21,830	6,074,391 17,384	4,886,620 13,985
Unmetered Loads	20,014	20,004	20,070	20,970	21,003	21,091	20,009	21,030	17,304	13,905
Connections kWh	538 2,130,242	515 2,067,611	491 2,015,390	487 1,988,577	482 2,009,374	485 1,973,539	475 1,926,180	452 1,855,836	452 2,059,805	452 2,059,805
Embedded Distributor - Hydro One, CND										
Customers kWh	2 13,614,985	2 13,478,594	2 13,008,529	2 13,176,711	2 13,845,907	2 13,548,203	2 13,027,612	2 12,605,162	2 12,605,162	2 12,605,162
kW	27,708	28,171	29,053	27,809	28,706	28,843	27,466	24,387	24,387	24,387
Embedded Distributor - Waterloo North, CND Customers	1	1	1	1	1	1	1	1	1	1
kWh kW	0 73,663	0 78,980	0 70,982	45,983,610 92,130	58,781,039 106,790	60,363,736 108,929	61,404,044 121,168	58,104,381 114,657	58,104,381 114,657	58,104,381 114,657
Total										
Customer/Connections kWh	63,364 1,428,999,866	64,309 1,427,066,491	64,930 1,447,672,426	65,404 1,508,825,531	65,809 1,504,564,536	66,285 1,525,305,858	66,892 1,443,193,604	67,601 1,384,202,885	68,348 1,383,820,372	69,104 1,378,623,399
kW from applicable classes	2,490,272	2,561,516	2,570,938	2,485,062	2,553,295	2,482,027	2,461,377	2,338,913	2,343,317	2,375,077

								Number of				Unemployment Kitcherset- Waterico-Barrie				
Jan-06	CND Purchased kWh Ind WMP 140.041.421	WMP 3,319,567	CND Purchased kWh Excl WMP 136,721,854	BCP Purhased 27,008,780	Energy+ Purchased 163,730,634	Heating Degree Days 676.8	Cooling Degree Days	Dave in Month 31	Spring Fall. Flag	Number of Peak Hours 352	Co-generation Facility Flag	Waterico-Berrie 6000'si 34.6	CDM Activity 632,963	Predicted Purchases 159,978,162	Variances (KWh) (3,752,473)	%. Variance -2.7%
Feb-05 Mar-05 Arc-05	132 651 127 133 457 374 122 596 306	3.028.038 3.214.304 3.270.611	129.623.089 130.243.070 119.325.595	25.623.480 25.871.810 22.283.580	155,246,569 156,114,880 141,609,575	651.2 686.1	0	28 31	1	320 304 362		36.2 37.4	549.951 555.919 583.887	148 910 071 151 652 148 145 245 416 144 318 303	(6,336,498)	-4.9% -3.4%
May-05 Jun-05	121.120.167 130.438.115	3.465.368 3.708.875 3.934.058	117.654.799 126.729.240	22.297.260 23.777.670	139,952,059 150,506,910	297.9 243.1 40.5	0.7 53	31	0	336	0	38.5 39.2	700.855 717.823	156 271 854	3.636.841 4.366.244 5.764.944	3.7% 4.5%
Aug-05 Sep-05	131,943,162 126,425,825	3.934.058 3.850.472 3.625.170 3.481.713 3.298.956 3,408,624 3,293.582	128.092.690 122.800.655	25.478.520 24.166.620	153.571.210 146.967.275	36.2 93.2 325.7	29.5 12	31	0	320 336		40.9 40.3	717.823 734.791 751.759 768.727 785.695 802.663	165 252 381 149 584 572 141 382 284 147 505 482	3.168.470 (3.986.638) (5.584.991)	-3.1% -4.5%
Oct-08 Nov-08 Dec-08	125.638.543 125.038.661 125.488.680 132,884,999	3,481,713 3,298,956 3,408,624	122,146,830 121,739,705 125,080,056	23.670.360 24.281.150 26,709,210	145.817.180 146.020.855 151,789,266	325.7 499.7 694	0	30 31	-	304 336	0	38.1 29.1 42.3	785,695 802,663 819,631 873,817	147.505.482 144.499.492 156.713.056 159.564,151	(1.521.363) 4,923,789	-1.2% -1.2% 3.9%
Jan-09 Feb-09 Mar-09	132,884,999 117,645,114 124,919,264	3,437,260	129,585,407 114,612,325 121,482,004	27,929,332 23,550,989 24,570,961	157,514,739 138,163,314 146,052,965	891.8 649.6 562.6	0	31 29 31	0	336 304 352	0	46.1 56.2 64.9	928,002	144,112,008	2,049,412 5,948,694 (768,998)	5.2% -0.6%
Apr-09 May-09 Jun-09	113.413.654 110.681.364 118.125.725	3.339.173 3.596.571 3.622.214	110.074.481 107.084.793 114.503.511	21,637,635 20,988,913 22,361,049	131.712.116 128.073.706 136.864.560	341.5 192.8 75.7	32 23 262	30 31 30	1	320 320 352	0	70.3 71.1 67.4	1.036.374 1.090.560 1.144.745	134.424.043 132.916.994 142.374.419	2.711.927 4.843.288 5,509.859	2.5% 4.5% 4.8%
Jul-09 Aug-09 Sep-09	117.925.787 129.756.657 117.730.372	3.752.602 3.840.622 3.570.927	114.173.185 125.916.035	23.002.366 25.799.177 23.063.555	137,175,551 151,715,212 137,213,000	37.6 34.4 85.8	14.5 57.3 5.5	31 31 30	0	352 320 336		67.6 69.2 66.3	1.144.745 1.198.931 1.253.117 1.307.302	140 310 554 149 764 233	3.135.002 (1.950.979) (5.374,047)	-15% -47%
Oct-09 Nov-09 Dec-09	119,665,804 119,039,063 128,577,043	3.490,030 3.367,916 3.361,528	116.175.774 115.671.145 125,215,515	23.127.451 23.082.942 25.929.754	139.303.225 138.754.087	329.1 396.5 669.5	0	31 30	1	336 320 352	0	51.0 55.2 56.0	1,361,488 1,415,674 1,469,860	139.524.545 138.657.739 153,528,079	221.320 103.652 2,382,811	0.2%
Jan-10 Feb-10	134.104.887 119,717,521	3.347.486 2,989,143 3.370.604 3.395.070	130,757,401 116,728,378	26,725,071 23,541,640	157.462.472 140,270,018	727.1 644.7	0	31 28	0	320 304		59.6 64.7	1,495,425 1,520,990 1,546,535 1,572,120	150,956,771 139,036,504	(6.525.701) (1,233,514)	-5.0%
Apr-10 Apr-10 May-10	125,455,107 112,822,227 122,392,253	3.628.575	122,084,503 109,427,157 118,763,678	23.601.051 20.493.533 22.580.250	145.685.554 129.920.689 141.343.928	470.9 255.7 144.7	0 0 21	30 31		320 320 320		65.2 65.5 64.3	1,597,686	143,526,896 132,335,803 139,202,778	(2.158.656) 2.415.114 (2.141.150)	-18% 2.2% -18%
Jun-10 Jul-10 Aug-10	127,582,818 140,727,870 139,365,541	3.761.081 4.126.395 4.052.556	123.821.737 136.601.475 135.312.985	23.502.732 27.078.109 27.739.353	147.324.468 163.679.584 163.052.338	37.7 6.7 9.7 122.7	26.8 100.6 79.2	30 31 31	0	352 336 336		55.3 57.5 56.4	1.623.251 1.648.816 1.674.381	166,746,973 166,746,973 160,690,809	(3.213.210) 3,067,389 (2.361.529)	-2.5% -2.2% -1.7%
Sep-10 Oct-10 Nov-10	119.162.847 117.558.713 122.844.772	4.052.556 3.695.864 3.584.867 3.350.404 3.374.793	113.973.846 113.973.846 119.494.368 128.056.281	24.072.313 22.594.689 23.581.778	139.539.295 136.568.534 143.076.146	122.7 279.6 337.9 719.4	16.7 0	30 31 30		336 320 336	0	55.1 56.2 52.4	1,674,381 1,692,946 1,725,512 1,751,077 1,776,642	138.167.873 138.211.680 139.642.435	(1.371.423) 1,643,146 (3.433.712)	-1.2% 1.4% -2.9%
Dec-10 Jan-11 Feb-11	131.431.074 136,150,617 122.763.331	3,000,000	128.056.281 132,881,278 119,655.233	25.922.543 27,651,533 23,993.443	153.978.824 160,532,811 143.648.676	719.4 770 640.8	0	31 31 28	0	368 336 304	0	50.5 51.4 54.0	1,894,821	157,552,204 155,554,881 141,816,330	3.573.381 (4.977,930) (1.832.346)	-3.7% -1.5%
Mar-11 Apr-11 Mar-11	131,243,785 114,767,691 114,321,539	3,521,504 3,579,073 3,980,454	127.622.281 111,188,618 110.341.075	25.227.885 22,075,502 22,139.622	152,850,166 133,264,120 132,460,697	605.3 298.7	0 0	31 30	-	368 320 336	0	58.6 58.1	2,131,176 2,249,357 2,367,535	149.116.852 135.563,768 140.179.806	(3.733.314) 2.299,647 7.699.150	2.1%
Jun-11 Jul-11 Aug-11	124.731.712 144.387.088 137.940.609	3.980.454 4.173.389 4.723.223 4.540.643	120 558 323 139 663 865 133 399 966	22.855.810 28.064.628 26.577.980	143.414.133 167.728.493 159.977.946	148.7 48.5 0.8 5.9	21.6 128.2 54.3	30 31 31	0	352 320 357	0	52.1 50.0 50.6	2.367.535 2.485.714 2.603.893 2.722.071	140,179,805 144,254,245 175,299,054 155,899,488	870,113 7.570,570 (4.078.498)	0.7% 5.4% -3.19
Sep-11 Oct-11 Nov-11	121,929,648 120,057,900 123,311,494	4.173.389 4.723.223 4.540.643 4.096.299 3.804.176 3.596.792	117,833,349 116,253,723 119,714,702	23.936.195 23.119.702 23.381.692	141.769.544 139.373.425	88.9 279.9 382.4 574.8	17.2 0	30 31		336 320 952	0	51.2 50.0 45.2	2.840.250 2.958.429 3.076.607	139.151.399 139.595.104 142.871.297 151.905.345	(2,618,145) 222,679 (225,087)	-2.2% 0.2%
Dec-11 Jan-12	127,833,866	3.596,752 3,651,442 3.547,428 3.262,967 3,646,469	124,182,424	23.381.682 24.713.281 24.435.071	143,096,384 148,895,705 155,486,673	657.3	0	30 31 31	0	382 336 336	0	45.2 47.2 49.2			3,009,643	2.4%
Mar-12 Apr-12	124,673,922 124,643,815 118,034,723	3,646,469 3,068,110	121,410,956 121,197,345 114,966,614	23,207,526 21,426,874	145,133,896 144,404,871 136,393,488	573 370.1 365.3	0	31 30	1	352 320	0	49.7 49.2	3.244.256 3.293.726 3.343,196 3.392.685	145.512.398 145.512.398 144.478,209 139.245.364	73,335 2,851,876	0.3% 0.1% 2.5%
May-12 Jun-12 Jul-12	123.884.608 130.856.826 145.238.063	3.068.110 4.280.790 4.002.941 4.456.276	119.603.818 126.853.886 140.781.787	22,659,308 24,375,975 28,712,608	142.263.126 151.229.861 169.494.395	103.8 42.1 0	18.2 51.2 116.4	31 30 31	0	352 336 336	0	50.6 47.3 49.4	3.491.605 3.541.075	143,599,034 155,652,419 173,054,772	1,335,908 4,422,559 3,560,377	3.5% 2.5%
Aug-12 Sep-12 Oct-12	136.328.817 116.489.635 120.430.908	4.456.276 4.204.469 3.823.442 3.686.581	132,124,348 114,666,193 116,744,327	27.240.000 24.579.119 25.165.133	159.364.348 139.245.313 141.909.461	19.4 125.4 279.2 483.6	58.1 16.4 0	31 30 31	1	352 304 352	0	50.6 50.8 46.2	3.442.135 3.491.605 3.541.075 3.590.545 3.640.015 3.689.485 3.738.965	157.064.478 136.754.695 143.291.792	(2,299,870) (2,490,617) 1,382,332	\$\frac{5}{2}, \frac{5}{2}, \fra
Nov-12 Dec-12 Jan-13	124.178.017 125.032.972	3.435.397	120.742.620 121.584.461 130.239.205	24.523.211 23.381.742 27.328.129	145.265.831 144.966.202 157.567.335	585.5	0	30 31 31	0	352 304 352	0	41.6 43.2 44.9	3.883.154	146 836 508 149 783 115 156 201 170	1,570,677 4,816,912 (1,366,163)	1.3% 4.0% -1.0%
Feb-13 Mar-13 Apr-13			119,027,524 124,413,463 116,362,141	23,863,593 25,182,657 23,103,709	142,891,117 149,595,120 139,465,850	697.9 612.0 368.7	0.0 0.0	25 31 30	1	304 320 352	0	45.0 49.0 50.4	3,977,884 4,072,614 4,167,343 4,262,073 4,366,802	144,217,499 147,102,827 141,611,783	1,326,383 (2,493,293) 2,145,933	4.0% -1.0% 1.1% -2.0% 1.8% 3.0% -1.9% 0.3% -4.7% -2.2% 0.7%
May-13 Jun-13 Jul-13			118,146,376 122,367,904 135,746,384	22,525,110 23,676,410 27,777,446	140,671,486 146,044,314 163,523,830	152.1 46.4 15.1	19.6 31.3 85.9	31 30 31	0 0	352 320 352	0	53.1 52.3 54.6	4,262,073 4,356,802 4,451,532	144,167,968 143,671,484 163,929,410	3,495,482 (2,372,830) 405,580	-1.9% 0.3%
Aug-13 Sep-13 Oct-13			129.053.599 117.047.084 118.510.857	27.247.874 24.761.837 23.808.061	156.301.473 141.806.921 142.316.918	32.7 128.1 255.5	42.1 20.5 0.0	31 30 31	1	336 320 352	000	52.7 50.4 43.5	4.451.532 4.546.262 4.640.991 4.735.721	150 253 192 139 289 638 143 199 324	(6.048.281) (2.519.283) 880.406	-4.7% -2.2% 0.7%
Nov-13 Dec-13			122,250,368 126,466,736 135,820,223	24,683,257 27,084,400 28,861,547	145.933.624 153.551.135 164.681.770	517.7 727.3 827.9	0.0	30 31	1 0	336 320 352	0	38.6 38.9 42.2	4.925.180 5.042.472	146,700,729 155,766,863 159,951,167	(232.895) 2.215.727 (4.730.603)	-0.2% 1.8%
Feb-14 Mar-14 App.14			120.677.101 130.033.931 115.340.822	25.328.199 26.535.369 22.615.672	146,005,300 156,569,300 137,996,494	775.2 757.0	00	25 31	1	304 336 320	0	43.2 44.9 45.0	5.159.763 5.277.055 5.394,346 5.511.638	146,975,284 152,627,466 139,787,721 139,252,764	969.984 (3.941.834) 1.831.238	- 0.2% - 3.5% - 3.5% - 0.2% - 1.2% - 2.2% -
May-14 Jun-14			116.194.343 125.124.613	22,402,616 24,344,555	138 596 960 149 469 168	135.7 37.3	5.7 44.3	31 30	1	236 236		45.0 45.4		139 252 764 150 361 620	655.805 892.452	0.5%
Aug-14 Sep-14			125.661.580 118.663.196	25.539.663 25.539.663	152,572,601 144,202,859	31.1 114.0	24.5 11.4	31 30	1	320 336		45.7 45.7	5.746.221 5.863.513 5.980.804	145.078.968 135.305.474	(7,493,532) (5,896,385)	-5.0% -5.0%
Nov-14 Dec-14			121.758.309 124.290.572	25.243.720 26.383.155	141,784,861 147,002,028 150,673,727	244.6 521.9 597.6	0.0	31 30 31	- 1	304 336		39.9 36.6 36.1	5.098.095 6.215.387 6.332.679	143.557.002 144.084.402 154.611.265	(2.917.626) 3,937,538	-2.4% 3.2%
Jan-15 Feb-15 Mar-15			133.625.741 124.603.163 127,778,879	26.450.485 25.952,067	162,109,040 151,053,649 153,760,946	800.8 917.5 538.0	0.0 0.0	31 25 31	0	304 352	0	37.5 40.0 42.5	5 825 043 7.317.406 7,809,770 8.302.134	158 594 071 150 468 507 148 988 592	(3.414.969) (585.042) (4.772.355)	-2.6% -0.5% -3.7%
May-15 Jun-15			113,553,574 118,977,011 121,965,915 133,656,339	22,692,802 23,105,903 22,350,012	136,246,376 142,082,914 144,315,928	359.0 116.2 54.7 19.3	29.8 15.0 57.7	30 31 30	-	320 322	0	46.6 46.7 40.4 36.7	8.302.134 8.794.498 9,286,861 9,779.225	139 790 792 143 997 475 143,629,446 158 438 536	3,544,416 1,914,561 (616,462)	1.6% -0.5%
Aug-15 Sep-15			133,656,339 129,788,506 126,407,011	25.682.192 25.172.142 24.929.938	154,960,648 151,336,949	19.3 29.5 58.2	57.7 47.9 45.3	31 31 30	0	352 320 336		38.7 42.0 42.8		151,789,566 151,789,566 146,880,488	(3,171,082) (4,456,461)	-0.7% -2.4% -3.5%
Oct-15 Nov-15 Dec-15			116.420.946 117.582.279 119.503.997	22 322 088 22 495 330 23 879 812	138,743,001 140,077,609 143,383,809	290.1 391.1 453.0	00	31 30 31	-	336 320 352		39.7 33.6 36.1	10.763.953 11.256.316 11.748.680 12.241.044	141.721.383 141.721.383 150.975.813	2,927,367 1,643,774 7,592,003	1.4% 5.4%
Feb-15 Mar-15			124.164.357 114,712,727 115.985.691	27,315,110 24,324,626 23,571,151	151,479,468 139,037,353 139,556,842	717.8 627.4 492.6 431.8 174.6	0.0	31 29 31	0	320 320 352		39.5 41.9 45.0	12,393,080 12,545,116 12,697,153 12,849,189 13,001,225 13,153,261 13,305,297	145 803 035 138,243,556 138,446,785	(5.676.433) (793,797) (1.110.057)	-0.7% -1.0%
Apr-16 May-16 Jun-16			108.711.843 112,495,044 119,239,116	22,027,658 22,299,544 23,713,682	130,739,501 134,794,588 142,952,798	431.8 174.6 51.2	0.0 18.4 34.3	30 31 30	1	336 336 352	-1	45.1 44.5 41.0	12,849,189 13,001,225 13,153,261	133,169,268 135,325,791 140,749,726	2.429.765 531,203 (2.203.072)	2.2% 0.5% -1.8%
Jul-15 Aug-15 Sep-16			130,667,123 118,293,113	27.256.163 29.367.390 25.364.595	159.029.857 169.034.513 143.657.708	4.5 2.1 55.6 242.1	101.2 105.0 26.6	31 31 30	0	320 352 336		41.2 42.5 41.2	13.305.297 13.457.334 13.609.370 13.761.406 13.913.442	159.212.865 162.740.411 133.761.702	(6,294,102) (9,896,006)	0.1% -4.5% -6.4% -1.9% 0.6%
Oct-16 Nov-16 Dec-16			110.425.367 110.892.453 117.700.254	23.585.451 23.371.536 25.949.567	133,990,818 134,263,989 143,649,821	242.1 385.2 647.8	1.9 0.0	31 30 31	1	320 336 336	-1	38.9 34.2 35.3	13.761.406 13.913.442 14.065.479 14.083.036	131,855,584 134,929,995 146,321,468	(2,135,234) 665,006 2,571,645	-1.9% 0.6% 2.3%
Jan-17 Feb-17 Mar-17			121.051.180 106.265.432 118.074.264	27,189,294 22,193,276 24,660,903	148.240.474 128.458.708 142.735.167	537.9 537.6	0	31 25 31	0	336 304 365		37.9 41.3 44.4	14,100,594	145 294 177 132 088 710 142 009 263	(2,945,297) 3,530,002 (725,904)	-2.4% 3.4% -0.6%
Apr-17 May-17 Jun-17		LΞ	102,416,015 107,634,284 113,407,678	20,876,767 21,763,069 23,187,859	123,292,782 129,397,353 136,595,537	281.6 214.4 45.7	0 2.7 43	30 31 30	1	304 352 352		42.7 44.2 41.2	14,135,709 14,153,267 14,170,824	127,180,753 132,713,506 142,864,042	3,887,970 3,316,152 6,268,505	3.8% 3.1% 5.5%
Jul-17 Aug-17 Sep-17			120,098,351 118,460,983 113,240,500	25,197,254 26,069,248 24,049,829	145,295,605 144,530,231 137,290,329	34.5 81.1	58.5 28.6 36.3	31 31 30	0	320 352 320		43.5 40.4 39.3	14,188,382 14,205,939 14,223,497 14,241,054	145,439,235 140,900,623 135,880,609	143,631 (3,629,608) (1,409,720)	2.3% -2.4% 3.4% -0.6% 3.8% -3.1% 5.5% -3.1% -3.1% -3.1% -3.2% -4.2% 4.7%
Oct-17 Nov-17 Dec-17			108.245.395 111.845.881 116.335.221	22.147.304 23.597.020 25.575.345	130,392,690 135,442,901 141,910,569	208.9 480 755.7	3.2 0 0	31 30 31	1	336 352 304		34.3 30.3 30.1		134 072 968 139 445 295 147 320 234	3 580 275 4 002 394 5 409 555	3.4% 3.6% 4.7%
Jan-15 Feb-15 Mar-15						738.6 671.5 569.2	00	31 25 31	0	352 304 336		39.1 39.1 39.1	14.320.872 14.365.575 14.410.277	148,660,712 135,661,429 139,900,327		
Apr-16 May-16 Jun-15						337.6 162.6 47.9	0.3 13.2 35.7	30 31 30	1	336 352 336		39.1 39.1 39.1	14.276.170 14.320.672 14.365.575 14.410,277 14.454.980 14.499.682 14.544.385	132.321.254 136.000.282 139.765,539		
Jul-18 Aug-18						23.7	77.0 52.7	31	0	336 352	i	39.1 39.1	14.533.700	153.772.175 148.104.978		
Oct-18 Nov-18						95.9 273.5 439.9	20.8 0.5 0.0	30 31 30		352 336		39.1 39.1	14.578.493 14.723.195 14.767.896 14.812.601 14.893.805	134.657.542 134.459.553		
Jan-19 Feb-19						540.5 738.6 671.5	0.0	31 25	0	352 304		29.1 29.1 29.1		143,548,740 135,598,547		
Apr-19 Apr-19 May-19						569.2 337.6 162.6	0.0 0.3 13.2	30 31		336 336 352		29.1 29.1 29.1	14.456.213 14.337.418 14.218,622	139,886,535 132,356,552 136,084,670		
Jul-19 Jul-19 Aug-19						47.9 13.2 23.7	35.7 77.0 52.7	30 31 31	0	320 352 336		39.1 39.1 39.1	14,099,826 13,981,031 13,862,235	138,469,055 155,384,695 146,905,685		
Sep-19 Oct-19 Nov-19						95.9 273.5 439.9	20.8 0.5 0.0	30 31 30		320 352 320		39.1 39.1 39.1	13.743.439 13.624.644 13.505.848	131.773.398 134.987.380 133.408.530		
Dec-19						640.5	0.0	31	0	320	-	39.1	13.387.052	143.847.524		
							Weather Norma							20,870,060,669		
2008 2009 2010			1,515,917,475 1,405,643,619 1,470,485,791	297.492.850 285.044,124 291.433.050	1,813,410,325 1,693,687,743 1,761,921,851									1,511,314,221 1,712,499,685 1,750,181,987	(2.095.104) 18,811,942 (11,739.854)	-0.1% 1.3% -0.8%
2011 2012 2013			1.473.294.638 1.481.727.957 1.479.631.641	293.737.263 293.429.507 301.042.483	1.767.032.101 1.775.157.464 1.780.674.124									1.771.238.583 1.788.477.370 1.776.111.888	4.205.482 13.319.906 (4.562.236)	-0.8% 0.3% 0.9% -0.3% -1.2%
2014 2015 2016			1,478,604,266 1,483,863,362 1,424,060,763	303.815.429 293.516.037 298.126.493	1,782,419,695 1,777,379,399 1,722,187,256									1,764,743,832 1,777,115,136 1,700,560,186	(17,675,863) (264,263) (21,627,070)	-1.2% 0.0% -1.5%
2017 2018 2019			1,357,075,175	286,507,172	1,643,582,347									1,665,209,417 1,675,356,044 1,677,252,320	21,627,070	1.6%
Total			14.573.307.887	2 944.144.418	17.517.452.305									17.517.452.305	۰	
														20,870,060,669	O Little above accept	ne rem

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	CND Purchased		CMD Dumbrand			Heating Degree Days 730.59	Continu	Number of Days in Month	Contra Est	Numbered	Co- generation Facility Flac	Kitchener-		Descriptors		\$\frac{5}{8}\$ \[\frac{1175}{8} \] \[\frac{1175}{8} \] \[\frac{1175}{8} \] \[\frac{15}{125} \] \[\frac{125}{125} \] \[125
lan-05	kWh Incl WMP	WMP 3 319 567	kWh Exd WMP	BCP Purhased	Purchased 163 730 634	Dava 738 50	Decree Days	Month	Spring Fall Flag	Peak Hours	Facility Flag	(000's)	CDM Activity	Purchases 161 354 644	Variances (kWh)	4.7%
Feb-05 Mar-05	132.651.127	3.028.038	129.623.089	25.623.480 25.871.810	155.246.569	671.52 599.77	0	28	0	320	0	36.2 37.4	649.951 696.919	149.372.600	(5.873.969)	4.5%
Apr-08 May-08	122 595 205	3.270.611	119.325.595 117.654.799	22 283 980 22 297 260	141.609.575	337.61 162.61	0.32	30	-1	352 336	0	352 374 355 355 392 425 400	583.887 700.855	145.245.400 145.228.164	4.636.834 6.276.104	3.9%
Jun-08 Jul-08	130 435 115	3 708 875	126 729 240 135 759 890	23 777 670 26 324 020	150 506 910	47.94 13.19	35 67 77.03	30	0	336 352	0	39.2 42.5	717 823 734.791	151 234 370 165 749 017	727 460 3.665.106	2.7%
Feb-05 Mar-05 Acc-05 Mar-05 Acc-05 Mar-05 Jun-05 Jun-05 Jun-05 Jun-05 Sep-05 Cot-05 Nov-05 Dec-05 Jun-09 Feb-09 Mar-09 Mar-09	131 043 182 125,425,825	3,625,170	128,002,600 122,800,655	24,166,620	145,957,275	571.52 559.22 337.61 162.61 47.94 13.19 23.65 273.47 439.9 549.46 738.6 671.5	52.65 20.79	31	1	336 336	0	40.3	751 750 765,727	144,105,324	2 880 121 (2,860,951)	2.1%
Oct-05 Nov-05	125 628 543 125 038 661	3 481 713	122 146 830 121,739,705	23 670 350 24 281,150	145 817 180 146 020 855	273 47 439.9	051	31		352 304	0 0	35.1	785 695 802 663	145 459 771	652 591 (2.882.548)	-2.4%
Dec-06 Jan-09	128.458.680 132.884.999	3.405.624	125.080.056 129.585.407	26.709.210 27.929.332	157,514,739	540.46 738.6	0.0	31	0 0	336 336	0	42.3 45.1	819.631 873.817	155,494,363 156,076,741	3.705.097	3.0%
Feb-09 Mar-09	117,645,114	3,032,789	114,612,325	23,550,989	138,163,314	671.5 569.2	0.0	29 31	0 =	304 352	0 0	56.2 64.9	928,002 982,188	144,610,957	6,447,643	-0.5%
Apr-09 May-09	113.413.654 110.681.364	3 596 571	110.074.451	21.637.635 20.988.913	131,712,116 128,073,706	337.6	13.2	30 31	-1	320 320	0	70.3 71.1	1.035.374	133.470.574 135.491.284	1,758,458 7,417,578	1.6% 6.9%
Jun-09 Jul-09	118.125.725 117.925.787	3,522,214	114.503.511	22.351.049 23.002.366	135.854.560	47.9 13.2	35.7 77.0	30	0	352 352	0	67.4 67.6	1,144,745	144.586.575 158.533.984	7.722.015 21.358.433	6.7% 18.7%
Aug-09 Sep-09	129 756 657 117,729,372	3 540 622 3 570 927	125 916 035 114.149.445	25 799 177 23 063 555	151 715 212	162.6 47.9 13.2 23.7 96.9 273.5 439.9 640.5 735.6 821.5	52.7 20.8	31	1	320 336	0	69.2 66.3	1.253.117	145 123 047 135 615 233	(3 592 165) (597.767)	-2.9% -0.5%
Oct-09 Nov-09	119 665 804 119 039 053	3.490.030	115 671 145	23.127.451 23.082.942	139.303.225	273.5 439.9	0.5	30	-1-	336	0	51.0 55.2	1 415 674	138 411 443 139 845 623	1 091 536	0.9%
Jan-10	134 104 887	3 347 455	130 757 401	25.725.071	157 482 472	738.6	0.0	31		320	0	59.6	1495 425	151 218 309	(6.264.163)	4 5%
Mar.10	124 264 107	3 370 604	122 084 503	23 601 051	145 695 554	489.2	0.0	31	- 1	108	0	68.7	1.545.555	144 764 886	79 337	
May-10	122 392 253 127 582 818	3.628.575	118.763.678	22.580.250	141.343.928	162.6	13.2	31	1 0	320	0	643 583	1,597,686	137,255,936	(4.087.992)	3.4%
Jul-10 Aug-10	140 727 870 139 365 541	4 125 395 4 052 556	135 601 475 135 312 985	27 078 109 27 739 353	163 679 584	13.2 23.7	77.0 52.7	31	0 0	336	0	57.5 56.4	1 646 816	159 816 140 153,034,826	(3 863 444) (10,017,511)	-2.8% -7.4%
Sep-10 Oct-10	119.162.847 117.558.713	3.595.864	115,466,983 113,973,546	24.072.313 22.594.689	139.539.295 136.568.534	95.9 273.5 439.9 640.5	20.8 0.5	30 31		336 320	0 0	58.1 56.2	1,699,946	138,808,918 138,225,311	(730.376) 1 656 777	3.4% 0.3% 2.8% 7.4% 0.0% 1.0% 1.0% 4.0% 4.0% 3.0% 1.0% 5.4% 5.4% 5.4% 5.4%
Nov-10 Dec-10	122 844 772 131 431 074	3 584 867 3 350 404 3 374 793	119.494.358 128.056.281	23.581.778 25.922.543	143.076.146 153.978.824	439.9 640.5	0.0	30	1 0	336	0	52.4 50.5	1,751,077	141,954,188	(1,111,958) 1,776,526	1.4%
Jan-11 Feb-11	136 150 617 122 763 331	3 269 339 3.105 095	132 881 278 119 655 233	27 651 533 23 993 443	160 532 811 143 648 676	738 6 671.5	0.0	25 25	0	336 304	0	51.4 54.0	1 894 821 2 012 999	154 839 918 142 515 587	(5.692.894)	-0.9%
Mar-11 Apr-11	131.243.785	3 579 073	127.622.281	25.227.885 22.075.502	152 850 166 133 264 120	337 6	0.0	30	-1	368	0	58.6 58.1	2 249 357	148.295.589 136.545.551	3 281 431	3.0%
Jun-11	124 731 712	4 173 389	120 558 323	22.855.810	143.414.133	47.9 13.2 23.7	35.7	30	0	352	0	52.1	2,485,714	145.497.013	5.082.879	4.2%
Aug-11 Sep-11	137.940.609	4.540.643	133,399,966	25.577.980	159,977,946	23.7	52.7 20.5	31	0	352	0	50.6	2.722.071	155.785.227	(4.192.719)	3.1%
Oct-11 Nov-11	120 057 900	3 504 175	116 253 723 119 714 707	23 119 702	139 373 425	273.5 439.9	05	31	1	320 352	0	50 0 45.2	2 958 429	139 602 906	229 481	0.2%
Dec-11 Jan-12	127.833.866 134.599.030	3551.442 3547.428	124.182.424 131.051.602	24.713.281 24.435.071	148.895.705 155.486.673	640.5 738.6	0.0	31	-	336	ě	47.2 49.2	3.194,786	153.399.920 155.054.931	4.504.215 (43) 742)	-1.2% 0.2% 0.5% 0.5% -0.3% 2.2% 1.8% -2.7% 1.8%
Feb-12 Max.12	124.673.922 124.643.815	3262.967	121.410.956	23.722.941 23.207.536	145.133.896 144.404.871	671.5 589.2	0.0	29	-	320 352	0	47.6 49.7	3,293,726 3,343,196	147.754.939	2.621.042 4.605.765	2.2%
Mes.17	118 034 723	3.068.150 4.780.790	\$13,350 \$11 818,753 \$11	21 42K 874 22 KND 30K	13K 303 48K 142 2K3 12K	337 K	13.2	30	1	120	0	49.7 50.6	1 102 MM	138 711 170	2 317 601 1 160 642	2.0%
Jun-12 Jul-12	130 856 826 145 238 063	4 002 941 4 456 276	126.853.886 140.781.787	24,375,975 28,712,608	151,229,861	47.9 13.2	35.7 77.0	30 31	0	336 336	0	47.3 49.4	3.491.605 3.541.075	148 118 162 161 531 378	(3.111.699) (7.963.017)	2.5% 5.7%
Aug-12 Sep-12	136.328.817 118.489.635	4.204.469 3.823.442	132.124.345 114.665.193	27.240.000 24.579.119	159.364.345 139.245.313	23.7 95.9	52.7 20.8	31 30	1	352 304	0	50.6 50.8	3.590.545 3.640.015 3.689.485	155.524.469 137.424.378	(3.839.879) (1.820.934)	-2.9% -1.6%
Oct-12 Nov-12	120 430 908 124 178 017	3 686 581 3.435.397	116 744 327 120 742 620	25 165 133 24 523 211	141 909 461 145 265 831	273.5 439.9	05 00	31 30	-1	352 352	0	45.2 41.6	3 689 485 3.738.955 3.788.425	143 314 528 145 841,796	1 405 067 575 965	1.2% 0.5%
Dec-12 Jan-13	125.032.972	3.448.511	121,584,461	23.381.742 27.328.129	144.966.202 157.567.335	540.5 738.6	90	31 31		304 352	0	43.2 44.9	3.788.425 3.883.154	151,489,376 157,505,221	6.523.174 (62.114)	0.0%
Sec-12 Jan-13 Fab-13 Mar-13 Acc-13 Jan-14 Jan-14 Ja			124 413 463	23.063.593 25.182.657 23.103.300	142.091.117 149.596.120	569.2	00	31	1	320 320	0	49.0 50.4	4.072.614 4.072.614	145.129.057 141.000 000	(3.467.063)	2.9% 5.7% 2.9% 1.8% 1.2% 0.5% 5.4% 0.0% 0.0% 0.0% 1.3% 1.3% 1.3%
May-13 Jun-13			118.146.376 122.387 914	22.525.110 23.676.410	140.671.486 146.044 314	162.6 47.0	13.2	31 30	1 0	352 320	0	53.1 52.1	4.262.073 4.355.802	142,473,134 145,018,030	1.801.648	1.5% -0.8%
Jul-13 Aug-13			135 746 384 129,053,599	27 777 446 27 247 874	163 523 830 156.301.473	13.2	77.0 52.7	31	-	352 336	ě	54 6 52 7	4 451 532 4 546 262	161 222 089 153 215 577	(2.301.741)	-1.7%
Sep-13 Oct-13			117.047.084 118.510.857	24.761.837 23.808.061	141.808.921	95.9 273.5	20.8	30	1	320 352	0	50.4 43.5	4.540.991 4.735.721	138,666,548	(3.142.373)	2.7%
Nov-13 Dec-13			122,250,368 126,466,736	24.683.257 27.054.400	146.933.624	439.9 640.5	0.0	30	1 0	336 320	0	35.6 35.9	4.830.450 4.925.180 5.042.472 5.159.763 5.277.055	144.929.823	(2.003.801) 239.050	-1.6% 0.2%
Jan-14 Feb-14			135 820 223 120,677,101	28 851 547 25,328,199	164 681 770	738 6 671.5	0.0	31 28	00	352 304	0	42.2 43.2	5.042.472	157 918 267 144.615.290	(6.763.503) (1.390.010)	-1.2%
Mar-14 Ann-14			130.033.931	26.535.369 22.615.622	156.562.300 137.056.404	569.2 337.6	0.0	31	-	335	0	44.9 45.0	5.277.055 5.394.346	148.353.964	(8.216.136)	2.4% 2.7% 2.7% 1.2% 1.6% 0.2% 5.0% 1.7% 6.3% 1.9% 1.7% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2
Marc.14 Inn.14			116 104 343	72 402 616 74 344 666	138 506 093	47 G	13.2	30	1	136	n n	45.0	5.746.221	142 105 600	3 508 731 (1.457 136)	3.0%
Jul-14 Aug-14			127.319.695 125.661.580	25 584 932 25 911 021	152 904 627 152 572 601	23.7	77.0 52.7	31		352 320	0	45.7 45.7	5.746.221	163.285.885 153.363.419	10.381.258 790.818	0.6%
Sep-14 Oct-14			118.663.196	25.539.663 24.054.980	141.784.861	95.9 273.5	20.8 0.5	30	-1	336 352	0	39.9	5.980.804 5.980.804 6.098.096 6.215.387	144 357 313	(3.465.608) 2.582.452	2.2%
Dec-14			124 290 572	26.383.155	150.673.727	540.5	0.0	31	-	336	0	36.1	6.332,679	155,586,856	4.913.129	4.0%
Feb-15 Mar-15			124,603,163	25.450.485 25.982.057	151.053.649	671.5 559.2	0.0	28	0	304	0	40.0 42.5	5 825 043 7.317.406 7.809.770 8 302 134	144,869,540	(6.184.109) (4.061.716)	5.0%
Apr-15 May-15			113 553 574	22 692 802 23 105 903	136 246 376	337 6 167 6	03	30	-	336 320	0	45.5 45.7	8 302 134 8 704 408	139 400 009	3 153 633	25%
Jun-15 Jul-15			121,965,915 133,656,339	22,350,012 25,652,192	144.315.928 159.308.531	47.9 13.2	35.7 77.0	30 31	00	352 352	0 0	40.4 35.7	9.285.851	149.753.203	5.437.275 4.795.128	3.5%
Jun-15 Jul-15 Aug-15 Sep-15 Oct-15 Nov-15 Dec-15 Jan-16 Feb-16 Mar-16 Apr-16			129,788,506	25.172.142 24.929.938	154,960,648	23.7 95.9	52.7 20.8	31	0	320 336	0 0	42.0 42.8	10.271.589	153.082.930 140.400.526	(1,877,718) (10,935,423)	-1.4% -5.7%
Oct-15 Nov-15			116 420 946 117.582.279	22 322 055 22 495 330	138 743 001 140.077.609	95.9 273.5 439.9 640.5	0.5	31	-1	336 320	0	39.7 33.6	11,745,650	141 444 995	2.701.994 2.754.574	2.3%
Dec-15 Jan-16			119,503,997 124 164 357	23.879.812 27.315.110	151 479 468	540.5 738.6	0.0	31	0	352 320	1	36.1	12.241.044 12.393.080	155.242.831 146.276.263	11.859.022 (5.203.205)	4.2%
Mar-16			115.985.691	23.571.151	139.556.842	738 6 671.5 569.2 337 6	0.0	31	1	352	1	45.0	12.593,116	140,190,831	533.989 781.880	0.5%
Marc. 1.E.			117 495 044	22 027 000 22 200 544	114 704 598	167.6	13.2	31	1	136	- :	44.6	13.001.225	133,470 100	(1.315.308)	.17%
locate Account			131 773 674	27 246 583 29 367 390	950 030 857 950 034 513	13.2	77.0 52.7	31	0	330 352	-	41.7	13 305 207	152 145 088 147 500 145	(E 884 799) (21 525 368)	35.4%
Sep-15 Onl-15			118.293.113 110.425.367	25.364.595 23.565.451	143.657.708	95.9	20.8	30	- 1	336 320		41.2	13.609.370	132.661.011	(10.995,697)	-9.3%
Nov-16 Dec-16			110,892,453 117,700,254	23.371.536 25.949.567	134.263.989	439.9 640.5	0.0	30 31	1 0	336	1-	342 353 379	13.913.442	135,105,805	1.842.816 2.504.573	2.1%
Jan-17 Feb-17			121 051 180 105 265 432	27 189 294 22 193 276	145 240 474 125 455 705	738 6 671.5	0.0	31 28	0	336 304	-	37.9 41.3	14 083 036	147 549 545 135 130 207	(590 528) 5.671.499	-0.5% 6.3%
Mar-17 Apr-17			118.074.264 102.416.015	24.660.903 20.876.767	142,735,167	569.2 337.6	0.0	31	-1	368 304	- 1	44.4 42.7	14.118.151	141.363.269 128.551.771	(1,371,897) 5 258 988	-1.2% 5.1%
Jun-17 Jun-17			107.634.284 113.407.678	21.763.069 23.187.859 25.107.384	129.397.353 136.595.537 545.200 500	162.6 47.9 13.2	13.2 35.7	30 30	0 0	352 352	1	412 412	14.170.824	134.075.002	4.129.523 5.035.000	.1 8%7 %15.4%9.3%1.7%1.7%1.7%1.2%1
Aug-17 Sep-17			118.460.983 113.240.500	25.059.245 24.049.829	144.530.231 137.290.329	23.7	52.7 20.8	31	0	352 320	1	40.4 39.3	14.205.939	147.876.367 131.582.278	3.346.136	2.8%
Oct-17 Nov-17			105 245 356 111.845.881	22 147 304 23 597 020	130 392 690 135.442.901	273 5 439.9	05 00	31 30		336 352		343 303	14 241 054 14 258 612	134 734 867 138 532 528	4 342 176 3.089 525	4.0%
Dec-17 Jan-18			116.335.221	25.575.348	141.910.589	540.5 738.6	0.0	31 31	0	304 352		30.1 39.1	14.276.170 14.320.872	144,697,108 148,660,712	2.786.539	2.4%
Feb-15 Mar-15						571.5 569.2 337.6 162.6	0.0	28 31	1	304 336	-1	39.1 39.1	14.365.575	135.661.429 139.900.327		
Dec-17 Jan-18 Feb-15 Mar-18 Apr-18 May-18						3,37 6 162.6	13.2	31	1	352	1	39.1	14.499.682	132 321 254 136 000 282		
hit.ts						47 G	77.0 57.7	31	9 0	136	1	101 701	14 570 055	153 772 175 143 104 00		
Sep-18 Oct-18						95.9 273.5	20.8	30	1	304 352	1	39.1	14.575.493	130.062.698 134.657.547		
Nov-18 Dec-18		E				95.9 273.5 439.9 540.5 736.6 671.5 569.2	0.0	30 31	1	336 304		39.1 39.1	14.767.895	134.459.553 141.989.554		
Jan-19 Feb-19		ΕΞ				738 6 671.5	0.0	31 28	0	352 304		39 1 39 1	14 593 805 14 575 009	148 548 740 135 598 547		H
Mar-19 Apr-19						337 €	0.0	31	-1	336	1	39.1 39.1	14.456.213 14.337.418	139 886 535 132 356 552		
Jun-19						162.6 47.9	13.2 35.7	31	0	352 320		39.1	14.218.622	135.054.670 135.469.065		
Aug-19 Sep-19						162.6 47.9 13.2 23.7 96.9 273.5 439.9 640.5	52.7 20.8	31 30	0	336		39.1 39.1	13.862.235	146,906,685		
Oct-19 Nox-19						273.5 439.9	0.5 0.0	31		352 320	-	391	13 524 544 13 505 845	134 987 380 133,408,530		
Dec-19						640.5	0.0	31	۰	320	1	39.1	13.387.052	143.847.524		
E																H
2008			1 #1# ****	387 400 000	1 843		weather Norma							20 870 060 669	1.387.000	0.00
2000			1.010.917.475	287.492.850	1.613.410.325 1.603.687.743									1.014.655.993 1.734.007.176	40 370 433	2.0%
2011			1 471 704 818	201 ATT 050 201 717 261	1 767 032 551									1 784 771 570	(2.260 522)	A 7%
2013 2014			1.479.631.641	301.042.483 303.815.420	1.780.674.124 1.782.410.60*			E						1.771.329.337	(9.344.787) (2.844.797)	-0.6%
2015 2016			1 483 863 362 1.424,060.763	293 516 037 298 126 493	1.777.379.399 1.722.187.25F									1 778 164 670 1,678 131,097	785 271 (44.056.159)	0.1%
2017			1357,075,175	286,507,172	1 643 582 347			E						1 675 750 877	33.168.531	2.4%
2019														1,677,252,320		
Total			14 573 307 887	2 944 144 415	17 517 452 305									17 517 452 305		
														21 870 060 660 Chec	totals above sould	De ZETO
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E		E						E								
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	36%	23%	16%	12%	2%	11%	0%	0%	0%	0%	0%	0%Pag	<mark>je</mark> 85 1006 98
	41%	12%	17%	14%	3%	13%	0%	0%	0%	0%	0%	Filed ^{0%} Ani	il 30,126°18
												i iica. 7tpi	11 00, 2010
16,069,829	5,785,139	3,696,061	2,571,173	1,928,380	321,397	1,767,681	0	0	0	0	0	0	16,069,829
24,108,748	9,884,587	2,893,050	4,098,487	3,375,225	723,262	3,134,137	0	0	0	0	0	0	24,108,748

									Embedded	Distributors -	Distributors -	Distributors -	30, 2010
		General Service (General Service > 50	General Service >			Sentinel	Unmetered	Distributors -	Hydro One	Hydro One #2,	Hydro One,	
	Residential	< 50 kW	to 999 kW	1000 to 4999 kW	Large User	Street Lights	Lights	Loads	BPI - BCP	#1. BCP	BCP	CND	Total
2008	51,351	5,652	777	33	2	15,006	139	512	1	1	4	2	73,478
2009	51,970	5,789	786	32	2	15,100	179	550	1	1	4	2	74,415
2010	53,054	5,893	803	31	2	15,199	219	589	1	1	4	2	75,797
2011	54,019	5,932	822	33	2	15,264	189	565	1	1	4	2	76,834
2012	54,633	5,980	839	32	2	15,362	177	538	1	1	4	2	77,572
2013	55,070	6,004	840	30	3	15,453	191	534	1	1	4	2	78,132
2014	55,463	6,057	825	29	3	15,512	189	531	1	1	4	2	78,616
2015	55,922	6,149	808	29	2	15,539	189	534	1	1	4	2	79,179
2016	56,561	6,241	806	29	2	15,726	181	523	1	1	4	2	80,076
2017	57,272	6,298	796	28	2	16,024	168	499	1	1	4	2	81,094
2018	57,970	6,374	798	27	2	16,141	168	499	1	1	4	2	81,988
2019	58,677	6,451	800	27	2	16,260	168	499	1	1	4	2	82,892
Growth Rate in	n Customer Nu	ımbers											
2009	1.0120	1.0243	1.0118	0.9545	1.0000	1.0063	1.2933	1.0760	1.0000	1.0000			
2010	1.0209	1.0180	1.0216	0.9841	1.0000	1.0066	1.2237	1.0700	1.0000	1.0000	1.0000	1.0000	
2011	1.0182	1.0066	1.0247	1.0645	1.0000	1.0043	0.8628	0.9594	1.0000	1.0000	1.0000	1.0000	
2012	1.0114	1.0081	1.0201	0.9697	1.0000	1.0065	0.9354	0.9531	1.0000	1.0000	1.0000	1.0000	
2013	1.0080	1.0040	1.0012	0.9219	1.2500	1.0059	1.0775	0.9917	1.0000	1.0000	1.0000	1.0000	
2014	1.0071	1.0087	0.9821	0.9831	1.0000	1.0038	0.9891	0.9944	1.0000	1.0000	1.0000	1.0000	
2015	1.0083	1.0152	0.9793	1.0000	0.8000	1.0017	1.0014	1.0056	1.0000	1.0000	1.0000	1.0000	
2016	1.0114	1.0149	0.9975	0.9828	1.0000	1.0121	0.9589	0.9794	1.0000	1.0000	1.0000	1.0000	
2017	1.0126	1.0091	0.9877	0.9825	1.0000	1.0189	0.9281	0.9541	1.0000	1.0000	1.0000	1.0000	
Used	1.0122	1.0121	1.0028	0.9819	1.0000	1.0073	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Geomean	1.0122	1.0121	1.0028	0.9819	1.0000	1.0073	1.0217	0.9973	1.0000	1.0000	1.0000	1.0000	

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							Embedded	Embedded	Embedded	Filed: April 30, 2018
						Embedded	Distributors -	Distributors -	Distributors -	
	General Service	General Service >				Distributors -	Hydro One #1,	Hydro One #2,	Hydro One &	
	> 50 to 999 kW	1000 to 4999 kW	Large User	Street Lights	Sentinel Lights	BPI - BCP	BCP	BCP	Waterloo, CND	Total
2010	1,535,992	646,504	421,436	31,415	487	10	29,200	109,926	101,371	2,876,341
2011	1,559,458	659,131	431,699	31,403	228	44	31,128	117,161	107,151	2,937,403
2012	1,578,630	606,302	483,777	31,677	311	88	24,429	129,577	100,035	2,954,827
2013	1,568,193	586,435	425,912	31,772	307	31	31,865	119,621	119,938	2,884,073
2014	1,605,303	581,849	457,867	31,886	293	95	31,822	126,065	135,496	2,970,676
2015	1,555,819	581,153	430,087	31,873	288	95	30,827	139,060	137,772	2,906,975
2016	1,564,561	631,904	358,566	31,300	417	1,313	29,428	99,936	148,634	2,866,059
2017	1,518,753	574,484	348,189	24,144	343	1,075	29,011	102,973	139,044	2,738,017
2018	1,559,982	556,266	332,575	19,227	343	1,075	29,995	102,973	139,044	2,741,479
2019	1,556,242	542,178	382,038	15,467	343	1,075	29,995	102,973	139,044	2,769,356
-			-	-			-	-		•
CND										
2010	1,294,863	570,060	421,436	26,614					101,371	
2011	1,331,831	582,383	431,699	26,604					107,151	
2012	1,350,651	527,947	483,777	26,876					100,035	
2013	1,335,995	502,673	425,912	26,970					119,938	
2014	1,364,263	498,923	457,867	27,085					135,496	
2015	1,332,730	485,226	430,087	27,097					137,772	
2016		529,212	358,566	26,889					148,634	
2017	1,295,209	466,699	348,189	21,830					139,044	
					-					•
ВСР			_						_	
BCP 2010	241,129	76,444		4,801	487	10	29,200			
	241,129 227,627	76,444 76,749		4,801 4,799	487 228	10 44	29,200 31,128			
2010				,						
2010 2011	227,627	76,749		4,799	228	44	31,128			
2010 2011 2012 2013 2014	227,627 227,979	76,749 78,355		4,799 4,800	228 311	44 88 31 95	31,128 24,429			
2010 2011 2012 2013	227,627 227,979 232,198	76,749 78,355 83,762		4,799 4,800 4,801	228 311 307	44 88 31	31,128 24,429 31,865			
2010 2011 2012 2013 2014 2015 2016	227,627 227,979 232,198 241,040 223,090 237,320	76,749 78,355 83,762 82,927		4,799 4,800 4,801 4,801 4,776 4,411	228 311 307 293 288 417	44 88 31 95 95 1,313	31,128 24,429 31,865 31,822 30,827 29,428			
2010 2011 2012 2013 2014 2015	227,627 227,979 232,198 241,040 223,090	76,749 78,355 83,762 82,927 95,927		4,799 4,800 4,801 4,801 4,776	228 311 307 293 288	44 88 31 95 95	31,128 24,429 31,865 31,822 30,827			
2010 2011 2012 2013 2014 2015 2016	227,627 227,979 232,198 241,040 223,090 237,320	76,749 78,355 83,762 82,927 95,927 102,692		4,799 4,800 4,801 4,801 4,776 4,411	228 311 307 293 288 417	44 88 31 95 95 1,313	31,128 24,429 31,865 31,822 30,827 29,428			
2010 2011 2012 2013 2014 2015 2016 2017	227,627 227,979 232,198 241,040 223,090 237,320	76,749 78,355 83,762 82,927 95,927 102,692		4,799 4,800 4,801 4,801 4,776 4,411	228 311 307 293 288 417	44 88 31 95 95 1,313	31,128 24,429 31,865 31,822 30,827 29,428			
2010 2011 2012 2013 2014 2015 2016 2017	227,627 227,979 232,198 241,040 223,090 237,320 223,544	76,749 78,355 83,762 82,927 95,927 102,692 107,785		4,799 4,800 4,801 4,801 4,776 4,411 2,314	228 311 307 293 288 417 343	44 88 31 95 95 1,313 1,075	31,128 24,429 31,865 31,822 30,827 29,428 29,011			
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh	227,627 227,979 232,198 241,040 223,090 237,320 223,544	76,749 78,355 83,762 82,927 95,927 102,692 107,785	0.2144%	4,799 4,800 4,801 4,801 4,776 4,411 2,314	228 311 307 293 288 417 343	44 88 31 95 95 1,313 1,075	31,128 24,429 31,865 31,822 30,827 29,428 29,011			
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116%	76,749 78,355 83,762 82,927 95,927 102,692 107,785	0.2551%	4,799 4,800 4,801 4,801 4,776 4,411 2,314 0.2798% 0.2796%	228 311 307 293 288 417 343 0.2778% 0.1392%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273%			
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2011	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368%	0.2551% 0.2405%	4,799 4,800 4,801 4,801 4,776 4,411 2,314 0.2798% 0.2796% 0.2788%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477%			
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2012 2013	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150% 0.3025%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368% 0.2170%	0.2551% 0.2405% 0.2079%	4,799 4,800 4,801 4,801 4,776 4,411 2,314 0.2798% 0.2796% 0.2788% 0.2821%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744% 0.2009%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233% 0.0087%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477% 0.2295%		0.2027%	
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2012 2013 2014	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368% 0.2170% 0.2212%	0.2551% 0.2405% 0.2079% 0.2231%	4,799 4,800 4,801 4,801 4,776 4,411 2,314 0.2798% 0.2796% 0.2788% 0.2821% 0.2796%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744% 0.2009% 0.1998%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233% 0.0087% 0.0280%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477%		0.2027% 0.1866%	
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2012 2013 2014 2015	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150% 0.3025% 0.3248% 0.3202%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368% 0.2170% 0.2212% 0.2208%	0.2551% 0.2405% 0.2079% 0.2231% 0.2074%	4,799 4,800 4,801 4,801 4,776 4,411 2,314 0.2798% 0.2796% 0.2788% 0.2821% 0.2796% 0.2797%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744% 0.2009% 0.1998% 0.2021%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233% 0.0087% 0.0280% 0.0271%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477% 0.2295% 0.2449% 0.2231%		0.1866% 0.1864%	
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2012 2013 2014	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150% 0.3025% 0.3248%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368% 0.2170% 0.2212%	0.2551% 0.2405% 0.2079% 0.2231%	4,799 4,800 4,801 4,801 4,776 4,411 2,314 0.2798% 0.2796% 0.2788% 0.2821% 0.2796%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744% 0.2009% 0.1998%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233% 0.0087% 0.0280%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477% 0.2295% 0.2449%		0.1866%	
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2012 2013 2014 2015	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150% 0.3025% 0.3248% 0.3202%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368% 0.2170% 0.2212% 0.2208%	0.2551% 0.2405% 0.2079% 0.2231% 0.2074%	4,799 4,800 4,801 4,801 4,776 4,411 2,314 0.2798% 0.2796% 0.2788% 0.2821% 0.2796% 0.2797%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744% 0.2009% 0.1998% 0.2021%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233% 0.0087% 0.0280% 0.0271%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477% 0.2295% 0.2449% 0.2231%		0.1866% 0.1864%	
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2012 2013 2014 2015 2016	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150% 0.3025% 0.3248% 0.3202% 0.3231%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368% 0.2170% 0.2212% 0.2208% 0.2414%	0.2551% 0.2405% 0.2079% 0.2231% 0.2074% 0.2371%	0.2798% 0.2798% 0.2796% 0.2796% 0.2796% 0.2796% 0.2796% 0.2821% 0.2796% 0.2821%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744% 0.2009% 0.1998% 0.2021% 0.3048%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233% 0.0087% 0.0280% 0.0271% 0.3455%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477% 0.2295% 0.2449% 0.2231% 0.2170%		0.1866% 0.1864% 0.1997%	
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2012 2013 2014 2015 2016	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150% 0.3025% 0.3248% 0.3202% 0.3231%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368% 0.2170% 0.2212% 0.2208% 0.2414%	0.2551% 0.2405% 0.2079% 0.2231% 0.2074% 0.2371%	0.2798% 0.2798% 0.2796% 0.2796% 0.2796% 0.2796% 0.2796% 0.2821% 0.2796% 0.2821%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744% 0.2009% 0.1998% 0.2021% 0.3048%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233% 0.0087% 0.0280% 0.0271% 0.3455%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477% 0.2295% 0.2449% 0.2231% 0.2170%	0.2380%	0.1866% 0.1864% 0.1997%	
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2012 2013 2014 2015 2016 2017	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150% 0.3025% 0.3248% 0.3202% 0.3231% 0.3118%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368% 0.2170% 0.2212% 0.2208% 0.2414% 0.2380%	0.2551% 0.2405% 0.2079% 0.2231% 0.2074% 0.2371% 0.2381%	4,799 4,800 4,801 4,801 4,776 4,411 2,314 0.2798% 0.2796% 0.2788% 0.2821% 0.2796% 0.2797% 0.2818% 0.2882%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744% 0.2009% 0.1998% 0.2021% 0.3048% 0.2700%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233% 0.0087% 0.0280% 0.0271% 0.3455% 0.3091%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477% 0.2295% 0.2449% 0.2231% 0.2170% 0.2380%	0.2380%	0.1866% 0.1864% 0.1997% 0.1966%	
2010 2011 2012 2013 2014 2015 2016 2017 kW/kWh 2010 2011 2012 2013 2014 2015 2016 2017	227,627 227,979 232,198 241,040 223,090 237,320 223,544 0.3157% 0.3116% 0.3150% 0.3025% 0.3248% 0.3202% 0.3231% 0.3118%	76,749 78,355 83,762 82,927 95,927 102,692 107,785 0.2581% 0.2443% 0.2368% 0.2170% 0.2212% 0.2208% 0.2414% 0.2380%	0.2551% 0.2405% 0.2079% 0.2231% 0.2074% 0.2371% 0.2381%	4,799 4,800 4,801 4,801 4,776 4,411 2,314 0.2798% 0.2796% 0.2788% 0.2821% 0.2796% 0.2797% 0.2818% 0.2882%	228 311 307 293 288 417 343 0.2778% 0.1392% 0.1744% 0.2009% 0.1998% 0.2021% 0.3048% 0.2700%	44 88 31 95 95 1,313 1,075 0.0028% 0.0119% 0.0233% 0.0087% 0.0280% 0.0271% 0.3455% 0.3091%	31,128 24,429 31,865 31,822 30,827 29,428 29,011 0.2187% 0.2273% 0.2477% 0.2295% 0.2449% 0.2231% 0.2170% 0.2380%	0.2380%	0.1866% 0.1864% 0.1997% 0.1966%	

	Total OPA	Total IESO/OPA	Total IESO	Total IESO						
	Annual CDM	Annual CDM	Annual CDM	Annual CDM						
	Results 2006 to	Results 2011 to	Results 2015	Results 2016		Total Annual	Increase over			
	2010 programs	2014 programs	programs	programs	2017 Programs	CDM Results	previous year			
									Check	
2006	2,199,695	-	-			2,199,695	2,199,695	28,201	2,199,695	-
2007	5,865,381	-	-			5,865,381	1,804,405	23,133	5,865,381	-
2008	8,715,686	-	-			8,715,686	1,323,501	16,968	8,715,686	-
2009	14,062,057	-	-			14,062,057	4,226,485	54,186	14,062,057	-
2010	19,632,401	-	-			19,632,401	1,994,087	25,565	19,632,401	-
2011	23,543,736	6,993,904	-			30,537,640	9,217,935	118,179	30,537,640	-
2012	23,185,906	19,010,177	-			42,196,083	3,858,652	49,470	42,196,083	-
2013	23,093,273	29,756,733	-			52,850,006	7,388,910	94,730	52,850,006	-
2014	22,519,904	45,730,999	-			68,250,903	9,148,743	117,292	68,250,903	-
2015	20,225,485	55,118,689	39,052,345			114,396,518	38,404,372	492,364	114,396,518	-
2016	19,336,761	54,157,230	78,044,009	7,213,352		158,751,352	11,858,827	152,036	158,751,352	-
2017	16,614,719	52,313,262	77,653,661	14,252,795	9,320,799	170,155,235	1,369,491	17,558	170,155,235	-
2018	13,279,279	51,465,422	77,386,461	14,252,795	18,416,880	174,800,836	3,486,801	44,703	174,800,836	-
2019	7,609,615	50,830,908	77,374,944	14,252,795	18,416,880	168,485,142	- 9,266,064 -	118,796	168,485,142	-
Total	219,883,899	365,377,323	349,511,420	49,971,737	46,154,559	1,030,898,938				

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Mar		
Apr	4	
May	5	
Jun	6	
Jul	7	
Aug	8	
Sep	9	
Oct	10	
Nov	11	
Dec	12	
Total	7Ω	

2018 Programs 32,139,658 2019 Programs

	64		

CND			
2006	1,826,896		
2007	4,932,238		
2008	7,199,424		
2009	11,355,458		
2010	16,129,897		
2011	19,795,633	6,778,816	
2012	19,505,272	17,888,165	
2013	19,444,650	27,622,905	
2014	19,030,184	42,192,523	
2015	17,119,012	50,661,734	8,187,688
2016	16,413,895	49,887,126	16,312,404
2017	14,306,341	48,449,983	15,941,956
2018	11,654,541	47,806,271	15,674,985
2019	6,354,427	47,182,509	15,529,899
Total	185,067,868	338,470,032	71,646,932
BCP			
2006	372,800		
2007	933,143		
2008	1.516.262		
2009	2,706,599		
2010	3,502,504		
2011	3,748,103	215,088	
2012	3,680,633	1,122,013	
2013	3,648,624	2,133,828	
2014	3,489,720	3,538,476	
2015	3,106,473	4,456,955	933,743
2016	2,922,866	4,270,105	1,854,781
2017	2,308,378	3,863,278	1,831,572
2018	1,624,738	3,659,150	1,828,033
2019	1,255,188	3,648,399	1,819,062
Total	34,816,031	26,907,291	8,267,191

 Jan-06
 28,201

 Feb-06
 56,402

 Mar-06
 84,604

 Apr-06
 112,805

 May-06
 141,006

 Jun-06
 169,207

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	Heating	Cooling Degree
	Degree Days	<u>Days</u>
Jan-91	750.4	0
Feb-91	589.1	0
Mar-91	532.2	0
Apr-91	297.6	0.5
May-91	0	0
Jun-91	21.4	61.8
Jul-91	5.4	95.7
Aug-91	2.7	85.5
Sep-91	130.3	21.3
Oct-91	241.8	0
Nov-91	467.6	0
Dec-91	600.1	0
Jan-92	688.8	0
Feb-92	625.4	0
Mar-92	578.7	0
Apr-92	379.4	0
May-92	160.9	4
Jun-92	69.1	15.8
Jul-92	25.9	23.4
Aug-92	40.1	20.5
Sep-92	113.3	13
Oct-92	339.1	0
Nov-92	455.2	0
Dec-92	627.7	0
Jan-93	687.2	0
Feb-93	738.1	0
Mar-93	632	0
Apr-93	343.4	0
May-93	176.6	1.5
Jun-93	47.3	26.2
Jul-93	2.9	97.1
Aug-93	7.5	93.8
Sep-93	156.4	4
Oct-93	335.9	1
Nov-93	463.5	0
Dec-93	649.6	0
Jan-94	968.6	0
Feb-94	774.2	0
Mar-94	619.9	0
Apr-94	343.8	0
May-94	226.7	6.9
Jun-94	38.4	61.6
Jul-94	6.3	77.7
Aug-94	39.2	27.3
Sep-94	105.4	7.5
Oct-94	263.7	0
Nov-94	405.3	0
Dec-94	591.1	0
Jan-95	667.5	0
		0
Feb-95	735.3	
Mar-95	523.7	0
Apr-95	434.4	0

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May-95 Jun-95 Jul-95 Aug-95 Sep-95 Oct-95 Nov-95 Dec-95 Jan-96 Feb-96 Mar-96 Apr-96 Jun-96 Jul-96	171.9 25.9 17.3 4.3 143.6 245.5 539.2 741.3 789.4 712.6 670.4 421.9 216.1 29.4 18.9	1.7 70.8 105.9 101.9 10.8 0 0 0 0 0 0 10 38.6 41.9	4249.9	291.1
Aug-96 Sep-96 Oct-96 Nov-96 Dec-96 Jan-97 Feb-97 Mar-97 Apr-97 May-97 Jun-97	6.2 102.2 301.4 548.1 596.5 777.9 615 619.1 391.9 289 30.4	55.2 12.6 0 0 0 0 0 0 0 50.4	4413.1	158.3
Jul-97 Aug-97 Sep-97 Oct-97 Nov-97 Dec-97 Jan-98 Feb-98 Mar-98 Apr-98 May-98 Jun-98	22.1 49.4 115.2 288.9 471.4 630.7 652.8 547.1 505.1 312 77.1	59.8 21.9 5.4 1.6 0 0 0 0 16.8	4301	139.1
Jul-98 Aug-98 Sep-98 Oct-98 Nov-98 Dec-98 Jan-99 Feb-99 Mar-99 Apr-99 May-99	66.7 6.9 12.1 63 257.6 440.1 572.1 789.6 578.4 592.5 332.6 126.7	63.7 64.8 83.1 26 0 0 0 0 0 0	3512.6	254.4
Jun-99 Jul-99 Aug-99 Sep-99 Oct-99 Nov-99	44.4 3.2 28.8 88.9 319 405.1	76.5 138.9 30.9 27.7 0		

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Dec-99 Jan-00 Feb-00 Mar-00 Apr-00 May-00 Jun-00 Jul-00 Aug-00 Sep-00 Oct-00	623.7 773 643.8 446.9 358.3 152.4 41.1 18.6 29.7 134 251.6	0 0 0 0 18.7 35.4 44.8 46.3 23.8	3932.9	284.5
Nov-00 Dec-00 Jan-01 Feb-01 Mar-01 Apr-01 May-01 Jun-01 Jul-01 Aug-01 Sep-01 Oct-01 Nov-01	470.9 826.5 715 620.2 618.7 324.6 140.3 47 22.3 2.3 118.8 276.7 370.8	0 0 0 0 0 7.7 62.4 65.7 94.2 19.2 0	4146.8	169
Dec-01 Jan-02 Feb-02 Mar-02 Apr-02 May-02 Jun-02 Jul-02 Aug-02 Sep-02 Oct-02 Nov-02	563.3 625.7 592 581.2 356.2 266.8 53.1 4.7 11 50.2 345.6 486.4	0 0 0 0 6.6 5.3 54.5 129 72.3 47 6.3 0	3820	249.2
Dec-02 Jan-03 Feb-03 Mar-03 Apr-03 May-03 Jun-03 Jul-03 Aug-03 Sep-03 Oct-03	675.6 868.4 755.9 638.7 397.4 217 65.3 12.5 18.9 104.1 331.9	0 0 0 0 0.7 0 25.5 50.1 72.4 6 0	4048.5	321
Nov-03 Dec-03 Jan-04 Feb-04 Mar-04 Apr-04 May-04 Jun-04	434.4 610 879.2 699.2 540.9 354.1 196.2 92.5	0 0 0 0 0 0 0 6.7 16.3	4454.5	154.7

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Jul-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 Jan-05 Feb-05 Mar-05 Apr-05 Jun-05 Jul-05	21.3 55 71.3 287.5 432.9 700.1 814.7 683.5 680.5 354.6 244.9 27.3 6.8	49.3 30.6 13.7 0 0 0 0 0 0 0 0 104.8 105.4	4330.2	116.6
Aug-05 Sep-05 Oct-05 Nov-05 Dec-05 Jan-06 Feb-06 Mar-06 Apr-06 May-06 Jun-06	11.9 63.4 259.9 433.1 721.6 590.6 651.2 562.4 322.5 177.8 44.1	67.9 13.7 2.6 0 0 0 0 0 17.7 32.2	4302.2	294.4
Jul-06 Aug-06 Sep-06 Oct-06 Nov-06 Dec-06 Jan-07 Feb-07 Mar-07 Apr-07	6.5 27.5 130.3 335.1 415.9 545.2 698.3 785.1 582 403 166.4	117.2 45.5 2.3 0 0 0 0 0 0 0	3809.1	214.9
Jun-07 Jul-07 Aug-07 Sep-07 Oct-07 Nov-07 Dec-07 Jan-08 Feb-08 Mar-08 Apr-08	35.5 28 19.7 74.7 184.7 511.8 686.6 676.8 651.2 686.1 297.9 243.1	51.2 53.8 65.1 28 10.9 0 0 0 0	4175.8	220.2
Jun-08 Jul-08 Aug-08 Sep-08 Oct-08 Nov-08 Dec-08 Jan-09	40.6 7.6 36.2 93.2 325.7 499.7 694 891.8	53 75.8 29.5 12 0 0 0	4252.1	171

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Feb-09 Mar-09 Apr-09 May-09 Jun-09 Jul-09 Aug-09 Sep-09 Oct-09 Nov-09	649.6 562.6 341.5 192.8 75.7 37.6 34.4 88.8 329.1 396.5	0 0 3.2 2.3 26.2 14.5 57.3 5.5 0		
Dec-09 Jan-10 Feb-10	669.5 727.1 644.7	0 0 0	4269.9	109
Mar-10	470.9	0		
Apr-10	255.7	0		
May-10	144.7	21		
Jun-10 Jul-10	37.7 6.7	26.8 100.6		
Aug-10	9.7	79.2		
Sep-10	122.7	16.7		
Oct-10	279.6	0		
Nov-10	337.9	0		
Dec-10	719.4	0	3756.8	244.3
Jan-11	770	0		
Feb-11	640.8	0		
Mar-11	605.3	0		
Apr-11	298.7	0		
May-11 Jun-11	148.7 48.5	13.2 21.6		
Jul-11	0.8	128.2		
Aug-11	6.9	54.3		
Sep-11	88.9	17.2		
Oct-11	279.9	0		
Nov-11	382.4	0		
Dec-11	574.8	0	3845.7	234.5
Jan-12	657.3	0		
Feb-12	573	0		
Mar-12 Apr-12	370.1 365.3	0 0		
May-12	103.8	18.2		
Jun-12	42.1	61.2		
Jul-12	0	116.4		
Aug-12	19.4	58.1		
Sep-12	125.4	16.4		
Oct-12	279.2	0		
Nov-12	483.6	0	2504.7	070.0
Dec-12 Jan-13	565.5 681.3	0 0	3584.7	270.3
Feb-13	697.9	0		
Mar-13	612	0		
Apr-13	368.7	0		
May-13	152.1	19.6		
Jun-13	46.4	31.3		
Jul-13	15.1	85.9		
Aug-13	32.7	42.1		

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Sep-13 Oct-13 Nov-13 Dec-13 Jan-14 Feb-14 Mar-14 Apr-14 May-14 Jun-14	128.1 255.5 517.7 727.3 827.9 775.2 757 375.9 135.7 37.3	20.5 0 0 0 0 0 0 0 0 5.7 44.3	4234.8	199.4
Jul-14 Aug-14 Sep-14 Oct-14 Nov-14 Dec-14 Jan-15 Feb-15 Mar-15 Apr-15 Jun-15 Jul-15	36.8 31.1 114 244.6 521.9 597.6 800.8 917.5 538 359 116.2 54.7 19.3	31.5 24.5 11.4 0 0 0 0 0 0 0 29.8 15 57.7	4455	117.4
Aug-15 Sep-15 Oct-15 Nov-15 Dec-15 Jan-16 Feb-16 Mar-16 Apr-16	29.5 58.2 290.1 391.1 453 717.8 627.4 492.6 431.8	47.9 45.3 0 0 0 0 0 0	4027.4	195.7
May-16 Jun-16 Jul-16 Aug-16 Sep-16 Oct-16 Nov-16 Dec-16 Jan-17 Feb-17 Mar-17 Apr-17 Jun-17 Jul-17 Aug-17 Sep-17 Oct-17	174.6 51.2 4.8 2.1 68.6 242.1 388.2 647.8 635.1 537.9 597.6 281.6 214.4 45.2 3.2 34.5 81.1 208.9	18.4 34.3 101.2 105 26.6 1.9 0 0 0 0 0 2.7 43 58.5 28.6 36.3 3.2	3849	287.4
Nov-17 Dec-17	480 755.7	0 0	3875.2	172.3

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Summary of Degree Day Inform

Summary of All Heating Degree Days

Month	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017 <mark>2</mark>	0 Year Trend
January	687.20	968.60	667.50	789.40	777.90	652.80	789.60	773.00	715.00	625.70	868.40	879.20	814.70	590.60	698.30	676.80	891.80	727.10	770.00	657.30	681.30	827.90	800.80	717.80	635.10	728.5
February	738.10	774.20	735.30	712.60	615.00	547.10	578.40	643.80	620.20	592.00	755.90	699.20	683.50	651.20	785.10	651.20	649.60	644.70	640.80	573.00	697.90	775.20	917.50	627.40	537.90	711.6
March	632.00	619.90	523.70	670.40	619.10	505.10	592.50	446.90	618.70	581.20	638.70	540.90	680.50	562.40	582.00	686.10	562.60	470.90	605.30	370.10	612.00	757.00	538.00	492.60	597.60	577.7
April	343.40	343.80	434.40	421.90	391.90	312.00	332.60	358.30	324.60	356.20	397.40	354.10	354.60	322.50	403.00	297.90	341.50	255.70	298.70	365.30	368.70	375.90	359.00	431.80	281.60	350.6
May	176.60	226.70	171.90	216.10	289.00	77.10	126.70	152.40	140.30	266.80	217.00	196.20	244.90	177.80	166.40	243.10	192.80	144.70	148.70	103.80	152.10	135.70	116.20	174.60	214.40	168.1
June	47.30	38.40	25.90	29.40	30.40	66.70	44.40	41.10	47.00	53.10	65.30	92.50	27.30	44.10	35.50	40.60	75.70	37.70	48.50	42.10	46.40	37.30	54.70	51.20	45.20	44.1
July	2.90	6.30	17.30	18.90	22.10	6.90	3.20	18.60	22.30	4.70	12.50	21.30	6.80	6.50	28.00	7.60	37.60	6.70	0.80	-	15.10	36.80	19.30	4.80	3.20	13.8
August	7.50	39.20	4.30	6.20	49.40	12.10	28.80	29.70	2.30	11.00	18.90	55.00	11.90	27.50	19.70	36.20	34.40	9.70	6.90	19.40	32.70	31.10	29.50	2.10	34.50	25.0
September	156.40	105.40	143.60	102.20	115.20	63.00	88.90	134.00	118.80	50.20	104.10	71.30	63.40	130.30	74.70	93.20	88.80	122.70	88.90	125.40	128.10	114.00	58.20	68.60	81.10	94.7
October	335.90	263.70	245.50	301.40	288.90	257.60	319.00	251.60	276.70	345.60	331.90	287.50	259.90	335.10	184.70	325.70	329.10	279.60	279.90	279.20	255.50	244.60	290.10	242.10	208.90	250.0
November	463.50	405.30	539.20	548.10	471.40	440.10	405.10	470.90	370.80	486.40	434.40	432.90	433.10	415.90	511.80	499.70	396.50	337.90	382.40	483.60	517.70	521.90	391.10	388.20	480.00	449.7
December	649.60	591.10	741.30	596.50	630.70	572.10	623.70	826.50	563.30	675.60	610.00	700.10	721.60	545.20	686.60	694.00	669.50	719.40	574.80	565.50	727.30	597.60	453.00	647.80	755.70	632.6
Total	4,240.40	4,382.60	4,249.90	4,413.10	4,301.00	3,512.60	3,932.90	4,146.80	3,820.00	4,048.50	4,454.50	4,330.20	4,302.20	3,809.10	4,175.80	4,252.10	4,269.90	3,756.80	3,845.70	3,584.70	4,234.80	4,455.00	4,027.40	3,849.00	3,875.20	
Summary of A	All Cooling De	gree Days																								
Month	1993	1994																								
			1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017 2	0 Year Trend
			1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	0 Year Trend
January	-	-	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011 -	2012	2013	2014	2015	2016	2017 <mark>2</mark> -	0.00 Year Trend
February	-	-	1995 - -	1996 - -	1997 - -	1998 - -	1999 - -	2000 - -	2001 - -	2002 - -	2003 - -	2004 - -	2005 - -	2006 - -	2007 - -	2008 - -	2009 - -	2010 - -	2011 - -	2012 - -	2013 - -	2014 - -	2015 - -	2016 - -		0.00
•	- - -			1996 - - -	1997 - - -	1998 - - -	1999 - - -	2000 - - -	2001 - - -	2002 - - -	- - -	- - -	2005 - - -	2006 - - -	2007 - - -	2008 - - -	- - -	2010 - - -	2011 - - -	2012 - - -	2013 - - -	2014 - - -	2015 - - -	2016 - - -		0.00 0.00 0.00
February March April	- - -	- - - -	- - - -	- - - -	1997 - - - -	- - - -	- - - -	- - - -	- - -	- - - 6.60	- - - 0.70	- - -	2005 - - - -	- - - -	- - -	- - - -	- - - 3.20	- - - -	- - - -	- - - -	- - - -	- - -	- - - -	- - - -	- - - - -	0.00 0.00 0.00 -0.00
February March	- - - - 1.50	- - - - 6.90	- - - - 1.70	- - - - 10.00		- - - - - 16.80	- - - - 10.50	- - -	- - - - - 7.70	- - - 6.60 5.30	- - - 0.70	- - - - 6.70	- - - -	- - - - 17.70	- - - - 11.20	- - - - 0.70	- - - 3.20 2.30	- - -	- - - - 13.20	- - - - 18.20	- - - - 19.60	- - - - 5.70	- - - - 29.80	- - - - 18.40	- - - - 2.70	0.00 0.00 0.00 -0.00
February March April	- - - - 1.50 26.20	- - - - 6.90 61.60	- - - - 1.70 70.80	- - - - 10.00 38.60		- - - -	- - - - 10.50 76.50	- - - -	- - - - 7.70 62.40	- - - 6.60	- - - 0.70	- - - - 6.70 16.30		- - - - 17.70 32.20	- - -	- - - - 0.70 53.00	- - 3.20 2.30 26.20	- - - -	- - - -	- - - -	- - - -	- - -	- - - - 29.80 15.00	- - - - 18.40 34.30	- - - - 2.70 43.00	0.00 0.00 0.00 -0.00 14.64 28.53
February March April May	26.20 97.10	- - 6.90 61.60 77.70	- - - 1.70 70.80 105.90	- - - 10.00 38.60 41.90	- - - 50.40 59.80	- - - 16.80 63.70 64.80	- - - 10.50 76.50 138.90	- - - 18.70 35.40 44.80	- - - 7.70 62.40 65.70	6.60 5.30 54.50 129.00	- - 0.70 - 25.50	6.70 16.30 49.30	- - - 104.80 105.40	- - - 17.70 32.20 117.20	- - - 11.20 51.20 53.80	- - - 0.70 53.00 75.80	3.20 2.30 26.20 14.50	- - - 21.00 26.80 100.60	- - - - 13.20 21.60 128.20	- - - 18.20 61.20 116.40	- - - 19.60 31.30 85.90	5.70 44.30 31.50	29.80 15.00 57.70	18.40 34.30 101.20	- - - - 2.70 43.00 58.50	0.00 0.00 -0.00 14.6 28.5 74.3
February March April May June July August	26.20	- - - 6.90 61.60 77.70 27.30	- - - 1.70 70.80 105.90 101.90	- - - - 10.00 38.60	- - - - - 50.40	- - - - 16.80 63.70 64.80 83.10	- - - - 10.50 76.50 138.90 30.90	- - - - 18.70 35.40 44.80 46.30	- - - 7.70 62.40 65.70 94.20	- - 6.60 5.30 54.50	- - 0.70 - 25.50 50.10 72.40	- - - - 6.70 16.30	- - - - - 104.80 105.40 67.90	- - - - 17.70 32.20	- - - 11.20 51.20	- - - 0.70 53.00 75.80 29.50	- - 3.20 2.30 26.20	- - - - 21.00 26.80	- - - 13.20 21.60 128.20 54.30	- - - - 18.20 61.20	- - - 19.60 31.30	- - - - 5.70 44.30	- - - - 29.80 15.00	- - - - 18.40 34.30	- - - 2.70 43.00 58.50 28.60	0.00 0.00 0.00 -0.00 14.64 28.53
February March April May June July August September	26.20 97.10	- - 6.90 61.60 77.70	- - - 1.70 70.80 105.90	- - - 10.00 38.60 41.90	50.40 59.80 21.90 5.40	- - - 16.80 63.70 64.80	- - - 10.50 76.50 138.90	- - - 18.70 35.40 44.80	- - - 7.70 62.40 65.70	6.60 5.30 54.50 129.00	- - 0.70 - 25.50	6.70 16.30 49.30	- - - 104.80 105.40	- - - 17.70 32.20 117.20	- - - 11.20 51.20 53.80	- - - 0.70 53.00 75.80	3.20 2.30 26.20 14.50	- - - 21.00 26.80 100.60	- - - - 13.20 21.60 128.20	- - - 18.20 61.20 116.40	- - - 19.60 31.30 85.90	5.70 44.30 31.50	29.80 15.00 57.70	18.40 34.30 101.20	2.70 43.00 58.50 28.60 36.30	0.00 0.00 -0.00 14.6 28.5 74.3
February March April May June July August	26.20 97.10 93.80	- - - 6.90 61.60 77.70 27.30	- - - 1.70 70.80 105.90 101.90	- - - 10.00 38.60 41.90 55.20	- - - - 50.40 59.80 21.90	- - - - 16.80 63.70 64.80 83.10	- - - - 10.50 76.50 138.90 30.90	- - - - 18.70 35.40 44.80 46.30	- - - 7.70 62.40 65.70 94.20	- - 6.60 5.30 54.50 129.00 72.30	- - 0.70 - 25.50 50.10 72.40	- - - 6.70 16.30 49.30 30.60	- - - - - 104.80 105.40 67.90	- - - 17.70 32.20 117.20 45.50	- - - - 11.20 51.20 53.80 65.10	- - - 0.70 53.00 75.80 29.50	3.20 2.30 26.20 14.50 57.30	- - 21.00 26.80 100.60 79.20	- - - 13.20 21.60 128.20 54.30	- - - 18.20 61.20 116.40 58.10	- - - 19.60 31.30 85.90 42.10	5.70 44.30 31.50 24.50	- - 29.80 15.00 57.70 47.90	- - - 18.40 34.30 101.20 105.00	- - - 2.70 43.00 58.50 28.60	0.00 0.00 -0.00 14.66 28.53 74.30
February March April May June July August September	26.20 97.10 93.80 4.00	- - - 6.90 61.60 77.70 27.30	1.70 70.80 105.90 101.90	- - 10.00 38.60 41.90 55.20 12.60	50.40 59.80 21.90 5.40	- - - - 16.80 63.70 64.80 83.10	- - - - 10.50 76.50 138.90 30.90	- - - - 18.70 35.40 44.80 46.30	- - - 7.70 62.40 65.70 94.20	- 6.60 5.30 54.50 129.00 72.30 47.00	- - 0.70 - 25.50 50.10 72.40 6.00	- - - 6.70 16.30 49.30 30.60	- - - - 104.80 105.40 67.90 13.70	- - - 17.70 32.20 117.20 45.50 2.30	- - - 11.20 51.20 53.80 65.10 28.00	- - - 0.70 53.00 75.80 29.50	3.20 2.30 26.20 14.50 57.30	- - 21.00 26.80 100.60 79.20	- - - 13.20 21.60 128.20 54.30	- - - 18.20 61.20 116.40 58.10	- - - 19.60 31.30 85.90 42.10	5.70 44.30 31.50 24.50	- - 29.80 15.00 57.70 47.90	18.40 34.30 101.20 105.00 26.60	2.70 43.00 58.50 28.60 36.30	0.00 0.00 -0.00 14.6- 28.5: 74.3(49.6)
February March April May June July August September October	26.20 97.10 93.80 4.00	- - - 6.90 61.60 77.70 27.30	1.70 70.80 105.90 101.90	- - 10.00 38.60 41.90 55.20 12.60	50.40 59.80 21.90 5.40	- - - - 16.80 63.70 64.80 83.10	- - - - 10.50 76.50 138.90 30.90	- - - - 18.70 35.40 44.80 46.30	- - - 7.70 62.40 65.70 94.20	- 6.60 5.30 54.50 129.00 72.30 47.00	- - 0.70 - 25.50 50.10 72.40 6.00	- - - 6.70 16.30 49.30 30.60	- - - - 104.80 105.40 67.90 13.70	- - - 17.70 32.20 117.20 45.50 2.30	- - - 11.20 51.20 53.80 65.10 28.00	- - - 0.70 53.00 75.80 29.50	3.20 2.30 26.20 14.50 57.30	- - 21.00 26.80 100.60 79.20	- - - 13.20 21.60 128.20 54.30	- - - 18.20 61.20 116.40 58.10	- - - 19.60 31.30 85.90 42.10	5.70 44.30 31.50 24.50	- - 29.80 15.00 57.70 47.90	18.40 34.30 101.20 105.00 26.60	2.70 43.00 58.50 28.60 36.30 3.20	0.00 0.00 0.00 14.66 28.5; 74.31 49.61 22.6

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181.00

291.10

158.30

254.40

284.50

169.00

249.20

321.00

154.70

116.60

Energy+ Inc.
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APPENDIX 3-5: OEB APPENDIX 2-H OTHER REVENUE

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USoA#	USoA Description	2014 Act		2014 Actual ²		5 Actual ²		al ²	Forecast Year	Bridge Year	Test Year
		2014		2014		2015	2016		2017	2018	2019
	Reporting Basis	CGAA		MIFRS		MIFRS	MIFRS		MIFRS	MIFRS	MIFRS
4235	Specific Service Charges	751		751,308		728,545	809,6		768,275	638,145	637,145
4225	Late Payment Charges	192		192,312		188,882	225,1		192,353	189,000	189,000
4082	Retail Services Revenue		289	34,289		30,850	32,1		28,424	32,400	31,20
4084	Service Tax Requests		747	747		586		31	342	780	66
4086	SSS Administration Revenue	149	654	149,654		181,110	185,0	11	191,007	185,283	189,73
4210	Rent from Electric Property	252	210	252.210		256.020	270.7	51	257.615	268.896	268.89
4220	Other Electric Revenues	212	645	212.645							
4245	Government Assistance Directly Credited to Income		-	5.213			146.3	49	189.000	203.765	234.49
4305	Regulatory Debits	(64	320)	(64.320)					(432,123)	(726.000)	
4310	Regulatory Credits	(43	720)	(107.369)		(647,982)	133.0	64	465.924	300.000	
4320	Expenses of Electric Plant Leased to Others		(26)	(26)							
4325	Revenues from Merchandise, Jobbing, Etc.	36	994	36,994		26,465	23,9	05	24,000	23,880	23,88
4355	Gain on Disposition of Utility and Other Property	57	603	57,603		37,760	6,0			618,000	
4360	Loss on Disposition of Utility and Other Property		-	(338,222)		(337,290)	(275,0	18)	(465,924)	(300,000)	(300,00
4375	Revenues from Non-Utility Operations	497	153	497,153		1,678,127	698,3	93	630,871	626,780	617,78
4380	Expenses of Non-Utility Operations	(327	238)	(327,238)	(1,339,778)	(550,0	33)	(350,000)	(325,000)	(330,00
4390	Miscellaneous Non-Operating Income	142	762	142,762		183,004	77,7	18	74,236	79,071	82,20
4398	Foreign Exchange Gains and Losses, Including Amortization	(17	308)	(17,308)		(2,646)	17,1	61			
4405	Interest and Dividend Income	95	293	95.293		599.903	226.6	16	115.000		
4415	Equity in Earnings of Subsidiary Companies									-	
Passilia Pa	ervice Charges	0 761	308	\$ 751.308	9	728 545	\$ 809.6	00	\$ 768.275	\$ 638 145	\$ 637.14
	ent Charges			\$ 192,312		188.882	\$ 225.1		\$ 192,353	\$ 189,000	\$ 189.00
	rating Revenues	\$ 649		\$ 654,758	Š	468,566	\$ 634.9		\$ 666,388	\$ 691 124	\$ 724.98
	me or Deductions	\$ 377		\$ (24,677)		197.564	\$ 357.8		\$ 61,984	\$ 296,731	\$ 103.86
Total		S 1,970		\$ 1.573,702		1.583.557	\$ 2.027.6		\$ 1.689,000	\$ 1.815.000	S 1.654.99

Account(s)
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436, 491, 4982, 4984, 4986, 4990, 4205, 4210, 4215, 4220, 4220, 4240, 4245
436, 4910, 415, 4220, 4224, 4224, 4234, 4246
436, 4310, 4315, 4220, 4224, 4226, 4330, 4335, 4340, 4345, 4350, 4355, 4380, 4365, 4370, 4375, 4380, 4385, 4303, 4355, 4380, 4365, 4370, 4375, 4380, 4385,

unt	4235	- Si	pecific	Serv	ice	Charges	e

	2014 Actual ²	2014 Actual ²	2015 Actual ²	2016 Actual	2017 Forecast	Bridge Year	Test Year
	2014	2014	2015	2016	2017	2018	2019
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Change of Occupancy Charges	263,574	263,575	275,250	277,455	276,870	236,000	238,000
Document Charges	260,767	260,767	257,415	411,071	341,335	281,000	278,000
Collection/Reconnection Charges	136,690	136,690	121,631	31,265	31,240	15,555	15,555
Legal Letter Revenue	899	899	765	375	405	420	420
Meter Related Charges	29,880	29,880	31,740	2,430	390	360	360
Returned Cheques Revenue	9,738	9,738	8,130	7,887	7,359	8,400	8,400
FIT/Microfit Service Charges	5,721	5,721			110,646	96,410	96,410
Miscellaneous charges	44,038	44,037	33,615	79,205			
Total	\$ 751,308	\$ 751,308	\$ 728,545	\$ 809,688	\$ 768,245	\$ 638,145	\$ 637,145

Other Op	perating Revenues							
		2014 Actual ²	2014 Actual ²	2015 Actual ²	2016 Actual	2017 Forecast	Bridge Year	Test Year
		2014	2014	2015	2016	2017	2018	2019
		CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
4082	Retail Services Revenue	34,289	34,289	30,850	32,123	28,424	32,400	31,200
4084	Service Tax Requests	747	747	586	731	342	780	660
4086	SSS Administration Revenue	149,654	149,654	181,110	185,011	191,007	185,283	189,732
4210	Rent from Electric Property	252,210	252,210	256,020	270,751	257,615	268,896	268,896
4220	Other Electric Revenues	212,645	212,645					
4245	Government Assistance Directly Credited to Income		5,213		146,349	189,000	203,765	234,498
Total		\$ 649,545	\$ 654,758	\$ 468,566	\$ 634.964	\$ 666,388	\$ 691,124	\$ 724,986

Other	Income	or	Deductions

		2014 Actual ²	2014 Actual ²	2015 Actual ²	2016 Actual	2017 Forecast	Bridge Year	Test Year
		2014	2014	2015	2016	2017	2018	2019
		CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
4305	Regulatory Debits	(64,320)	(64,320)		-	(432,123)	(726,000)	-
4310	Regulatory Credits	(43,720)	(107,369)	(647,982)	133,064	465,924	300,000	
4320	Expenses of Electric Plant Leased to Others	(26)	(26)		-		-	-
4325	Revenues from Merchandise, Jobbing, Etc.	36,994	36,994	26,465	23,905	24,000	23,880	33,880
4355	Gain on Disposition of Utility and Other Property	57,603	57,603	37,760	6,012		618,000	-
4360	Loss on Disposition of Utility and Other Property		(338,222)	(337,290)	(275,018)	(465,924)	(300,000)	(300,000)
4375	Revenues from Non-Utility Operations	497,153	497,153	1,678,127	698,393	630,871	626,780	617,780
4380	Expenses of Non-Utility Operations	(327,238)	(327,238)	(1,339,778)	(550,033)	(350,000)	(325,000)	(330,000)
4390	Miscellaneous Non-Operating Income	142,762	142,762	183,004	77,718	74,236	79,071	82,200
4398	Foreign Exchange Gains and Losses, Including Amortization	(17,308)	(17,308)	(2,646)	17,161			
4405	Interest and Dividend Income	95,293	95,293	599,903	226,616	115,000		
Total		\$ 377,194	\$ (24,677)	\$ 197,564	\$ 357,818	\$ 61,984	\$ 296,731	\$ 103,860

	2014 Actual ²	2014 Actual ²	2015 Actual ²	2016 Actual	2017 Forecast	Bridge Year	Test Year
	2014	2014	2015	2016	2017	2018	2019
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Pole and Ducts Rental	239,710	239,710	243,020	257,751	244,615	255,900	255,900
Rental Income	12,500	12,500	13,000	13,000	13,000	12,996	12,996
Total	\$ 252.210	\$ 252.210	\$ 256,020	\$ 270.751	\$ 257.615	\$ 268,896	\$ 268,896

	2014 Actual ²	2014 Actual ²	2015 Actual ²	2016 Actual	2017 Forecast	Bridge Year	Test Year
	2014	2014	2015	2016	2017	2018	2019
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Streetlighting Service Billings	437,951	437,951	380,012	262,526	350,000	325,000	330,000
Water and Sewer Billing Admin Fees			226,492	247,789	276,000	278,400	283,200
CDM Program Revenue	3,227	3,227	1,033,145	171,822			
Connection Impact Assessment	24,720	24,720				20,800	2,000
Miscellaneous	31,255	31,255	38,478	16,256	4,871	2,580	2,580
Total	\$ 497,153	\$ 497,153	\$ 1,678,127	\$ 698,393	\$ 630,871	\$ 626,780	\$ 617,780

	2014 Actual ²	2014 Actual ²	2015 Actual ²	2016 Actual	2017 Forecast	Bridge Year	Test Year
	2014	2014	2015	2016	2017	2018	2019
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Streetlighting Service Billings	(437,951)	(437,951)	(380,012)	(262,526)	(350,000)	(325,000)	(330,000)
Water and Sewer Billing Admin Fees			(226,492)	(247,789)			
CDM Program Revenue and (Expenses)	110,713	110,713	(733,145)				
Miscellaneous			(129)	(39,718)			

Account 4390 - Miscellaneous Non-Operating Income

	2014 Actual ²	2014 Actual ²	2015 Actual ²	2016 Actual	2017 Forecast	Bridge Year	Test Year
	2014	2014	2015	2016	2017	2018	2019
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Discounts Taken	21,260	21,260	55,127	14,867	13,236	9,600	10,200
Sale of Scrap Material	55,050	55,050	84,086	62,530	60,000	66,800	70,000
Other	66,452	66,452	43,791	321	1,000	2,671	2,000
Total	\$ 142,762	\$ 142,762	\$ 183,004	\$ 77,718	\$ 74,236	\$ 79,071	\$ 82,200

Account 4405 - Interest and Dividend Income

	2014 Actual ²	2014 Actual ²	2015 Actual ²	2016 Actual	Forecast Year	Bridge Year	Test Year
	2014	2014	2015	2016	2017	2018	2019
Reporting Basis	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
Investment Income	137,303	137,303	135,614	97,374	115,000		
Intercompany interest (Loan to former Brant County Power Inc.)			389,351				
OEB Carrying Charges CR	43,179	43,179	69,119	129,242			
OEB Carrying Charges DR	(84,025)	(84.025)					
Miscellaneous	(1.164)						
Total	\$ 95,293	\$ 95,293	\$ 599,903	\$ 226,616	\$ 115,000	\$ -	s -

Notes:

1 List and specify any other interest revenue.

2 In the transition year to IFRS, the applicant is to prin both a CGAAP and MIFRS basis.