



EXHIBIT 3

OPERATING REVENUE

EXHIBIT 3: Operating Revenue

TAB 1 (of 4)

Load and Revenue Forecasts

LOAD FORECAST REPORT

Introduction

In the Board's "*Filing Requirements for Electricity Distribution Rate Applications*", updated July 17, 2013, the Board presented Local Distribution Companies (LDCs) with two options in which to derive their load forecast. The first is the Multivariate Regression model and second is the Normalized Average Use per Customer (NAC) model.

Hydro One Brampton has opted to utilize the multivariate regression model to forecast the weather normalized load for the 2014 Bridge and 2015 Test Years for all rate classes with the exception of the Embedded Distributor, Distributed Generation and Energy from Waste Generation. The Embedded Distributor class is an existing class that HOBNI is proposing to make adjustments to. The Distributed Generation and the Energy from Waste Generation are new classes being proposed by HOBNI in this Application. Discussion on these rate classes will follow later in this report.

The model has incorporated historical load, weather, Ontario Real Gross Domestic Product, ("GDP") number of days in the month, spring/fall flag, number of peak hours, and number of customers/connections as well as population.

Hydro One Brampton's forecasted energy consumption for the 2015 Test Year is 3,972,635,063 kWh or 3.18% higher than its 2011 Board Approved kWh. HOBNI's forecasted number of customers (excluding connections) for the 2015 Test Year is 151,708 or 12.76% higher than the 2011 Board Approved customer count. The forecasted number of connections for 2015 is 1,377 or 6.11% higher than the 2011 Board Approved count. For more details on the data provided in **Table 1**, refer to the "*Summary*" tab in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*.

Table 1 below provides a summary of Hydro One Brampton's 2015 Test Year and 2011 Board Approved retail metered kWh load forecast, average number of customers and average number of connections.

Table 1: Load and Customer Growth – 2015 Test Year vs 2011 Board Approved

Description	2011 Board Approved	2015 Test Year	Change	Percentage Change
Retail Metered kWh*	3,850,115,760	3,972,635,063	122,519,302	3.18%
Average Number of Customers**	134,539	151,708	17,169	12.76%
Average Number of Connections***	22,519	23,896	1,377	6.11%

Note:

* 2011 OEB approved 3,815,870,096 kWh. For comparative purposes HOBNI added volumes for Embedded Distributor class.

** 2011 OEB approved 134,537 customers. For comparative purposes HOBNI added new class counts.

*** 2011 OEB approved 1,300 connections for Unmetered Scattered Load and 42,158 Street Light lamps, for comparative purposes HOBNI used 21,219 Street Light connections.

Load Forecast Methodology and Results

The objective of regression analysis is to predict future values of a particular variable (the dependent variable) using other variables (independent variables). Hydro One Brampton's objective is to determine the load forecast for both the 2014 Bridge and the 2015 Test Years using various independent variables which reasonably explain the dependent variable, in this case, total purchased kWh.

Data

Hydro One Brampton applied a similar approach to the one used in its 2011 Cost of Service Application in selecting data for use in the regression analysis. At a minimum, the independent variables should at least be correlated with and reasonably explain variations in purchased kWh. In addition, HOBNI reviewed applications submitted by other LDCs to identify the independent variables selected for use in their regressions and the consistency of the results from these regressions.

The data set covers actual monthly data from 2004 to 2013. Hydro Brampton submits that this time period is reasonable and consistent with other applications submitted by LDCs to the Board.

The following provides a description of the data set:

- Monthly Historical kWh load data. This includes purchases from the IESO and embedded generators, as well as wholesale market participant loads less power sold to an embedded distributor, embedded generators and load transfer customers;
- Monthly Heating Degree Days ("HDD") and Cooling Degree Days ("CDD") data from Toronto Lester B. Pearson International Airport weather station. According to Environment Canada, *"Degree-days for a given day represent the number of Celsius degrees that the mean temperature is above or below a given base temperature. For example, heating degree-days are the number of degrees below 18 degrees Celsius. If the temperature is equal to or greater than 18, then the number will be zero. Values above or below the base 18 degrees Celsius are used primarily to estimate the heating and cooling requirements of buildings"*. The data was obtained from Environment Canada's website;
- Monthly Ontario Real GDP. This data was sourced from Statistics Canada as well as the Government of Ontario's 2013 Budget Summary (*A Prosperous and Fair Ontario*);
- Number of Days in the Month. A regular calendar provides this data;
- Spring/Fall Flag - The spring/fall flag relates to the months of March, April, May, September, October and November;
- Number of Peak Hours in a Month.
- Number of Customers/Connections. This data comes from HOBNI's internal statistical records;
- Population data. This represents data for the City of Brampton and was provided by its planning department.

Methodology and Results

Hydro One Brampton employed Ordinary Least Square ("OLS") regression technique in an attempt to determine the forecasted purchased kWh for both the 2014 Bridge and 2015 Test Years. The Adjusted R-Square, t-Statistics and the F-test values were the main indicators used to assess the robustness of the results.

The higher the Adjusted R-Square value, the more reliable the regression results since this statistic measures goodness of fit or how well the forecasted purchased kWh is explained by the independent variables. T-Statistics values of two or more measured at the 95% confidence level are considered statistically significant. A significance value of 0.05 or lower at the 95% confidence level for the F-test is considered statistically significant.

In general, all the independent variables with the exception of Spring/Fall Flag should be directly related to total purchased kWh. In other words, an increase in these variables should result in an increase in purchased kWh and a decrease should result in a reduction in purchased kWh.

HOBNI has always considered different approaches that could to improve its regression forecasting methodology. Intervenors as well as Board staff have suggested that LDCs should examine the possibility of using class specific regressions to determine forecasted load. A number of LDCs including HOBNI have explored this possibility in the past. However, the results have consistently been less favourable compared to the total system purchased kWh approach.

Hydro One Brampton tested the class-specific regression approach in this Application by regressing the monthly billed kWh (uplifted) for each class, used as a proxy for purchases, against all the independent variables highlighted above. The results were consistent with the findings previously reported. **Table 2** below provides the results of these tests. For more details on the class specific regression statistics refer to HOBNI Class Specific Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 2*.

Table 2: Results from the Class-Specific Regressions

Independent Variable	Residential		GS<50		GS>50		Intermediate		Large User	
	Coefficient	T-Statistics	Coefficient	T-Statistics	Coefficient	T-Statistics	Coefficient	T-Statistics	Coefficient	T-Statistics
Constant	61,324,082	0.8960	5,584,261	0.6260	(30,785,617)	(1.2068)	(52,147,718)	(2.1400)	(34,554,483)	(2.9492)
Heating Degree Days	32,377	5.3679	5,473	5.6173	13,952	6.6696	(5,974)	(2.9237)	(2,033)	(1.6750)
Cooling Degree days	311,189	8.9399	30,244	5.4860	77,167	6.3493	45,538	3.8891	10,812	1.5437
Ontario Real GDP	(9,017,782)	(0.0972)	10,979,531	1.1467	72,189,418	3.6197	102,937,257	5.8462	44,338,385	4.1737
Number of Days in Month	555,345	0.4503	39,189	0.2009	168,490	0.3978	155,198	0.3734	223,353	0.9003
Spring/Fall Flag	(3,372,759)	(1.3235)	(790,916)	(1.9579)	(1,287,461)	(1.4524)	2,165,697	2.5221	237,833	0.4634
Number of Peak Hours	(175,578)	(3.1313)	(39,805)	(4.4843)	82,385	4.2797	91,726	4.8637	15,392	1.3667
Number of Customers/Connection	471	0.4717	4,234	2.5618	20,554	2.1434	250,980	2.6682	1,505,092	4.8679
Population	27	0.1717	(30)	(1.8809)	(50)	(2.5730)	(107)	(8.5096)	(7)	(0.8671)
Model Statistics	Residential		GS<50		GS>50		Intermediate		Large User	
Adjusted R-Square	68.43%		64.53%		55.66%		73.98%		70.67%	
F-Test	33.24		28.07		19.68		43.28		36.84	
F-Test Significance	0.0000		0.0000		0.0000		0.0000		0.0000	

1 As illustrated in **Table 2**, even though some of the coefficients for the independent variables are
2 significant, that is, the t-statistics values are greater than or equal to 2, the adjusted R-square
3 values range between 55.66% and 73.98%. This indicates that the class-specific purchased
4 kWh is not reasonably explained by the independent variables. Hydro One Brampton will
5 continue to work with the OEB, Intervenor, LDCs and other stakeholders in an attempt to
6 develop more reasonable model specifications for class-specific regressions.

7 Given that the class-specific results do not reasonably explain the class-specific purchased
8 kWh, HOBNI then regressed total system historical purchased kWh load against all the
9 independent variables. The results are presented under Model # One in **Table 3** below.

10 As can be seen in **Table 3** below, all the independent variables with the exception of number of
11 customers/connections and population are significant. The adjusted R-Square is 94.50%. In
12 addition, all the coefficients of the independent variables displayed the expected sign. However,
13 the results could be improved by removing the insignificant independent variables.

14 Hydro One Brampton then removed the number of customers/connections and population
15 variables from the equation and re-ran the regression. The results are presented under Model #
16 Two in **Table 3** below. HOBNI selected and used the results from this model to forecast
17 purchased kWh for the 2014 Bridge and 2015 Test Years. For more details on the results
18 presented in **Table 3** below refer to the "Model # One" and "Model # Two" tabs in the HOBNI
19 Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*.

Table 3: Summary from Total System Purchased kWh Regressions

Independent Variable	Model # One		Model # Two	
	Coefficient	T-Statistics	Coefficient	T-Statistics
Constant	(235,145,122)	(6.2712)	(221,662,899)	(8.2446)
Heating Degree Days	52,994	14.7027	53,035	14.8354
Cooling Degree days	502,492	24.1313	504,004	24.5387
Ontario Real GDP	293,904,594	4.7447	256,369,295	16.7446
Number of Days in Month	6,003,193	8.1421	5,981,256	8.1798
Spring/Fall Flag	(5,352,070)	(3.5129)	(5,294,424)	(3.5066)
Number of Peak Hours	157,282	4.6949	158,718	4.7833
Number of Customers/Connections	(406)	(0.6172)	-	-
Population	70	0.5805	-	-
Model Statistics	Model # One		Model # Two	
Adjusted R-Square	94.50%		94.58%	
F-Test	256.67		347.05	
F-Test Significance	0.0000		0.0000	

Review of Model # Two Results

All the t-statistics are greater than two and the F-test value is less than 0.05 which indicate statistical significance. Also, the adjusted R-Square is 94.58%. This is marginally higher than the adjusted R-Square value from Model # One.

The Adjusted R-Square value indicates that 94.58% of the forecasted purchased kWh is explained by the independent variables - weather, Ontario Real GDP, number of days in the month, spring/fall flag and number of peak hours. Also, since all the coefficients of the independent variables are significant, this speaks to the robustness of the model.

Ontario Real GDP is the biggest driver of forecasted purchased kWh. Intuitively, a 1% increase in Ontario Real GDP will increase forecasted purchased kWh by 256,369,295 and inversely, a 1% reduction in Ontario Real GDP will reduce purchased kWh by the said amount.

Weather also has a big impact on purchased kWh but more so during the summer months. A 1 degree change in CDD above the average temperature of 18 degrees will increase the purchased kWh by 504,004 kWh. The impact is somewhat lower for HDD. A 1 degree drop in

1 temperature below the average temperature of 18 degrees will increase purchased kWh by only
2 53,035.

3 As expected, the number of days in a month positively impacted purchased kWh. The results
4 show a 5,981,256 increase in purchased kWh for each additional day in a month. For example,
5 kWh usage in July, which has thirty-one days, should be higher than usage in June which has
6 thirty days.

7 Spring/Fall Flag attempts to capture and compare kWh consumption between the months in
8 which demand is lower - March, April, May, September, October and November to the months
9 where demand is higher – December, January, February, June, July and August. As expected,
10 the demand during the spring/fall months is lower than the demand during the winter/summer
11 months.

12 Finally, the number of peak hours in a month is expected to increase purchased kWh. The
13 results show that as the number of peak hours in a month increases, purchased kWh is
14 expected to increase by 158,718 kWh.

15 **Weather Normalized Forecast Purchased kWh**

16 The weather normalized forecast purchased kWh for the 2014 Bridge and 2015 Test Years
17 were calculated by multiplying the monthly values for the independent variables for 2014 and
18 2015 by the respective coefficients from Model # Two above then sum the results.

19 The 2014 and 2015 monthly values for HDD and CDD are based on the average monthly values
20 over a ten-year period, that is, January 2004 to December 2013. Analysis done by HOBNI
21 reveals that over time, the average temperature during summer and winter is increasing. HOBNI
22 compared the average monthly HDD and CDD between 2004 to 2013 and 1994 to 2003. This
23 information is presented in **Table 4** below. For more details on the results presented in **Table 4**
24 below refer to the “HDD-CDD” tab in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab*
25 *4 Schedule 1*.

26 The results show an average monthly decline in HDD which would suggest that the weather
27 during colder months is becoming warmer. In such case, consumers are expected to demand
28 less electricity since they would not be compelled to run their furnaces longer than normal or
29 even at higher temperature.

A similar argument can be raised for CDD. The results indicate that the average monthly temperature is rising which would suggest consumers are running their air conditioning units for longer periods.

Given the above, Hydro One Brampton submits that the ten-year average for HDD and CDD being proposed for weather normalization calculation reasonably reflects the current trend in weather pattern. Further, this approach is consistent with submissions by other LDCs to the Board.

Table 4: Ten Year Monthly Averages for HDD and CDD (2004 to 2013 and 1994 to 2003)

10 Year Average						
Month	2004 to 2013		1994 to 2003		Difference	
	HDD	CDD	HDD	CDD	HDD	CDD
Jan	700.25	-	730.15	-	(29.90)	-
Feb	628.93	-	622.71	-	6.22	-
Mar	520.30	0.02	548.00	-	(27.70)	0.02
Apr	308.54	0.12	342.65	1.26	(34.11)	(1.14)
May	140.57	18.57	162.83	11.20	(22.26)	7.37
Jun	25.84	72.82	32.07	67.92	(6.23)	4.90
Jul	1.72	139.54	5.25	118.59	(3.53)	20.95
Aug	5.36	106.42	7.41	102.32	(2.05)	4.10
Sep	58.56	33.61	70.74	34.16	(12.18)	(0.55)
Oct	238.27	3.35	250.81	1.92	(12.54)	1.43
Nov	408.47	-	423.04	-	(14.57)	-
Dec	615.72	-	601.84	-	13.88	-
Totals	3,652.53	374.45	3,797.50	337.37	(144.97)	37.08

Real GDP for Ontario in 2013, 2014 and 2015 were derived by adjusting the 2012 actual real GDP by the forecasted growth rates provided by the Government of Ontario in its 2013 *Ontario Economic Outlook and Fiscal Review*, released November 7, 2013. The Government of Ontario forecasted growth of 1.30%, 2.10% and 2.50% for 2013, 2014 and 2015, respectively. HOBNI has submitted the Load Forecast model which shows the calculations.

The calendar provided information related to the number of days in the month; the spring fall flag applies to the months of March, April, May, September, October and November.

Table 5 below shows the 2014 Bridge and 2015 Test Years' forecasted weather normalized purchased kWh, excluding the adjustments for Conservation and Demand Management ("CDM") and wholesale market participants. Also, as pointed out earlier, the forecast purchased kWh excludes kWh relating to the energy consumption associated with the Embedded Distributor, Distributed Generation and the Energy from Waste Generation classes. The 10-year weather normalized average for 2015 has been used as the purchased forecast in this Application for the purposes of determining billed kWh load forecast. The 20-year weather normalized average for 2015 was calculated and presented as requested by the Board. It reflects the average monthly HDD and CDD days from January 1994 to December 2013.

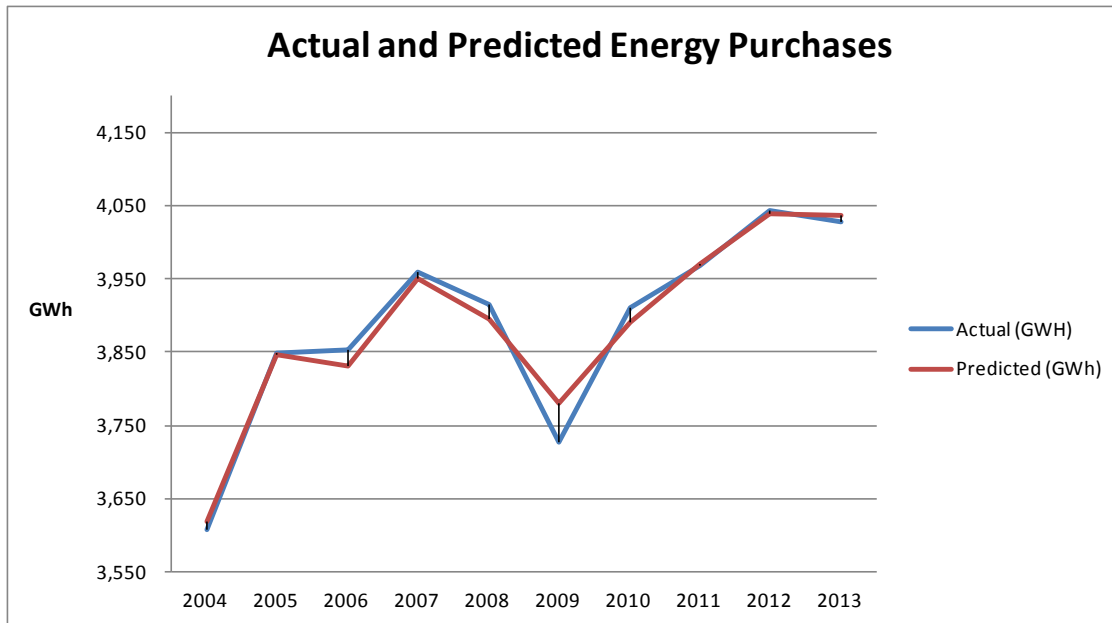
Table 5: Forecast Purchased kWh Excluding CDM & Wholesale Market Participants¹

Year	Actual (kWh)	Forecasted Purchases (kWh)	Variance	% Difference
2004	3,606,734,355	3,618,703,271	(11,968,916)	-0.33%
2005	3,848,828,345	3,847,030,944	1,797,401	0.05%
2006	3,854,274,114	3,831,498,914	22,775,200	0.59%
2007	3,958,591,768	3,951,695,295	6,896,473	0.17%
2008	3,915,443,564	3,896,414,064	19,029,500	0.49%
2009	3,727,941,968	3,781,079,154	-53,137,186	-1.43%
2010	3,911,054,142	3,889,917,169	21,136,973	0.54%
2011	3,968,502,600	3,969,819,877	-1,317,277	-0.03%
2012	4,043,243,029	4,039,088,423	4,154,606	0.10%
2013	4,027,156,664	4,036,523,438	-9,366,774	-0.23%
2014 Weather Normal - 10 Year Average		4,109,065,670		
2015 Weather Normal - 10 Year Average		4,194,973,860		
2015 Weather Normal - 20 Year Average		4,189,473,865		

The annual results of the regression model compared to the actual annual purchased kWh from 2004 to 2013 are presented in the chart below. The chart illustrates how well the actual values track the forecasted values.

¹ For more details on the results presented in Table 5 refer to the *Rate Class Energy Model & Reg. Model (HDDCDD20) Tabs* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*.

Figure 1: Comparison of Actual and Predicted Energy Purchases



Billed KWh Load Forecast

To determine the weather normalized billed kWh forecast, the total weather normalized forecast purchased kWh, excluding adjustments for CDM and wholesale market participants, is first adjusted for losses using the average loss factor between 2004 and 2013. The average loss factor during this time period was 1.0324 or 3.24% (see **Table 6** below). After adjustments, the calculated weather normalized billed kWh for the 2014 Bridge and 2015 Test Years are 3,980,104,863 kWh and 4,063,316,871 kWh, respectively.

Table 6: Average Loss Factor²

Year	Purchase kWh	Billed kWh	Loss Factor
2004	3,606,734,355	3,483,144,427	3.55%
2005	3,848,828,345	3,723,506,554	3.37%
2006	3,854,274,114	3,718,723,113	3.65%
2007	3,958,591,768	3,839,000,000	3.12%
2008	3,915,443,564	3,791,763,566	3.26%
2009	3,727,941,968	3,616,714,781	3.08%
2010	3,911,054,142	3,788,730,865	3.23%
2011	3,968,502,600	3,860,871,231	2.79%
2012	4,043,243,029	3,927,063,219	2.96%
2013	4,027,156,664	3,892,597,115	3.46%
Average			3.24%

Customer/Connection Forecast by Rate Class

The forecast number of customer/connection is based on a review of historical customer/connection data. This is presented in **Table 7** below. The total for each class is based on the average per year. Further, the average for the Unmetered Scattered Load and Street Lighting classes are based on connections and not the number of customers.

Table 7: Average Historical Number of Customers/Connections by Year

Year	Residential	General Service < 50 kW	Unmetered Scattered Load	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights	Total
2003	91,671	6,512	1,105	1,357	126	4	19,210	119,985
2004	98,355	6,648	1,130	1,393	124	3	19,382	127,036
2005	104,822	6,892	1,159	1,364	121	3	19,532	133,891
2006	109,778	7,075	1,207	1,402	119	4	19,701	139,286
2007	114,119	7,294	1,250	1,417	117	5	20,002	144,204
2008	119,060	7,437	1,267	1,491	116	6	20,282	149,659
2009	121,041	7,529	1,280	1,554	114	6	20,465	151,988
2010	123,013	7,752	1,293	1,539	114	6	20,691	154,407
2011	126,317	8,080	1,369	1,537	112	6	21,003	158,424
2012	129,699	8,328	1,424	1,525	112	6	21,359	162,453
2013	133,723	8,532	1,477	1,511	115	6	21,727	167,092

From the historical data, Hydro One Brampton calculates the growth rate for each class by year. HOBNI also calculates the geometric growth rate over the past six years (2008 to 2013) for all

² For more details on the results presented in Table 6 refer to the *Rate Class Energy Model Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

classes except the General Service > 50 kW and the Large User, where four and five years were applied, respectively. The results are presented in **Table 8** below.

Table 8: Historical Customer/Connection Percentage Growth Rates by Year³

Year	Residential	General Service < 50 kW	Unmetered Scattered Load	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights
2003							
2004	107.29%	102.10%	102.26%	102.65%	98.74%	77.08%	100.90%
2005	106.58%	103.66%	102.57%	97.88%	96.92%	97.30%	100.77%
2006	104.73%	102.67%	104.14%	102.81%	98.48%	130.56%	100.86%
2007	103.95%	103.10%	103.56%	101.05%	98.46%	125.53%	101.53%
2008	104.33%	101.95%	101.36%	105.25%	99.00%	122.03%	101.40%
2009	101.66%	101.24%	101.03%	104.19%	98.49%	100.00%	100.90%
2010	101.63%	102.96%	101.02%	99.06%	100.07%	100.00%	101.10%
2011	102.69%	104.24%	105.86%	99.87%	98.17%	100.00%	101.51%
2012	102.68%	103.06%	104.04%	99.25%	99.63%	100.00%	101.70%
2013	103.10%	102.45%	103.73%	99.08%	103.29%	100.00%	101.72%
6-Year Geometric Mean	102.68%	102.65%	102.82%	99.31%	99.76%	100.00%	101.39%

Hydro One Brampton based its forecast for growth for 2014 and 2015 on the trend over the past six years, that is, 2008 to 2013. HOBNI expects the number of Residential, General Service < 50 kW as well as Unmetered Scattered Load customers to continue growing at a rate of 2.68%, 2.65% and 2.82% per year, respectively, as the City of Brampton continues on its expansion path.

There was a noteworthy decline in the number of customers in the General Service > 50 kW class between 2009 and 2010. This may have been as a result of the recession during 2009. Previous to that, this customer class saw a very healthy growth rate consistent with most of the other classes. Further, since 2009, the number of customers within this class has been steadily declining and HOBNI does not anticipate any change in the current trend in the foreseeable future.

The average number of customers in the General Service > 700 kW class ranges between 112 and 116 during 2008 and 2013. HOBNI does not anticipate any new customer within this class in the near future and therefore submits that the forecasted customer count using the geometric mean approach over the past six years is reasonable.

³ For more details on the results presented in Table 8 refer to the *Rate Class Customer Model Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

The average number of customers in the Large User class has been stable at six since 2009 and HOBNI does not anticipate any new customer within this class in the near future.

HOBNI is anticipating a growth rate of 1.39% in the number of Street Lighting connections as the City of Brampton expands and the demand for street lights increase.

Hydro One Brampton's forecasted average number of customers and connections for the 2014 Bridge and 2015 Test Years is presented **Table 9** below.

Table 9: Forecasted Average Number of Customers/Connections by Year⁴

Year	Residential	General Service < 50 kW	Unmetered Scattered Load	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights	Total
2014	137,303	8,758	1,519	1,501	115	6	22,029	171,230
2015	140,979	8,989	1,562	1,491	115	6	22,335	175,476

Billed kWh Load Forecast by Rate Class

This section reviews the annual historical customer/connection usage by rate class then incorporates the results, along with the forecasted number of customers/connections in the previous section, to allocate forecasted billed kWh by rate class. **Table 10** below provides the average annual usage per customer by rate classification from 2003 to 2013.

Table 10: Average Historical kWh Usage by Year⁵

Year	Residential	General Service < 50 kW	Unmetered Scattered Load	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights	Total
2003	10,020	40,147	6,808	733,771	6,711,752	70,446,082	995	77,949,573
2004	9,489	39,727	5,148	750,508	7,423,304	94,159,492	1,082	102,388,750
2005	10,173	41,802	4,770	794,275	7,917,519	101,474,120	1,122	110,243,780
2006	9,488	39,956	4,387	770,866	8,009,145	85,298,993	1,208	94,134,043
2007	9,659	40,961	4,038	783,290	8,063,181	72,265,680	1,289	81,168,098
2008	9,183	38,846	4,031	748,867	7,542,181	64,768,041	1,321	73,112,470
2009	8,993	37,721	3,988	695,778	6,918,965	57,087,232	1,336	64,754,014
2010	9,522	37,642	4,020	707,593	7,367,674	60,533,133	1,370	68,660,953
2011	9,423	38,360	3,982	715,774	7,424,232	65,738,085	1,417	73,931,272
2012	9,345	37,936	3,906	722,419	7,701,445	67,040,612	1,432	75,517,096
2013	8,959	37,893	3,863	717,832	7,544,515	63,408,544	1,440	71,723,047

From the historical usage per customer/connection data, Hydro One Brampton has calculated the growth rate per customer/connection per year. HOBNI also calculated the average usage

⁴ For more details on the results presented in Table 9 refer to the *Rate Class Customer Model Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

⁵ For more details on the results presented in Table 10 refer to the *Rate Class Energy Model Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

per customer/connection over the past five years (2009 to 2013) using the geometric mean approach. The results are provided in **Table 11** below.

Table 11: Historical kWh Usage Growth Rates by Year⁶

Year	Residential	General Service < 50 kW	Unmetered Scattered Load	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights
2004	107.29%	102.10%	102.26%	102.65%	98.74%	77.08%	100.90%
2005	106.58%	103.66%	102.57%	97.88%	96.92%	97.30%	100.77%
2006	104.73%	102.67%	104.14%	102.81%	98.48%	130.56%	100.86%
2007	103.95%	103.10%	103.56%	101.05%	98.46%	125.53%	101.53%
2008	104.33%	101.95%	101.36%	105.25%	99.00%	122.03%	101.40%
2009	101.66%	101.24%	101.03%	104.19%	98.49%	100.00%	100.90%
2010	101.63%	102.96%	101.02%	99.06%	100.07%	100.00%	101.10%
2011	102.69%	104.24%	105.86%	99.87%	98.17%	100.00%	101.51%
2012	102.68%	103.06%	104.04%	99.25%	99.63%	100.00%	101.70%
2013	103.10%	102.45%	103.73%	99.08%	103.29%	100.00%	101.72%
Geometric Mean	102.68%	102.65%	102.82%	99.31%	99.76%	100.00%	101.39%

As illustrated above, the results indicate that the average usage per customer/connection is declining for all classes with the exception of General Service > 700 kW class and Street Lighting.

Hydro Brampton applied the geometric mean growth rate by class to the 2013 average annual kWh usage to derive the forecasted average annual kWh usage for the 2014 Bridge Year. To determine the forecasted average annual kWh usage for the 2015 Test Year, HOBNI applied the same geometric growth rate by class to the calculated 2014 Bridge Year forecasted average annual kWh usage. The results are presented in **Table 12** below.

Table 12: Forecasted Average Annual kWh Usage per Customer/Connection by Year

Year	Residential	General Service < 50 kW	Unmetered Scattered Load	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights
2014	8,915	37,705	3,831	711,781	7,544,982	63,140,088	1,466
2015	8,871	37,518	3,798	705,781	7,545,449	62,872,769	1,491

Given the above average consumption per customer by class, Hydro One Brampton then calculates the forecasted weather non-normalized billed kWh by class. This is done by multiplying the forecasted average number of customers/connections by the calculated average annual kWh usage per customer/connection. The results are shown in **Table 13** below.

⁶ For more details on the results presented in Tables 11 & 12 refer to the *Rate Class Energy Model Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

Table 13: Forecasted Billed kWh – Weather Non-Normalized

Year	Residential	General Service < 50 kW	Unmetered Scattered Load	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights	Total
2014	1,224,042,990	330,211,012	5,818,253	1,068,407,758	866,852,150	378,840,527	32,285,800	3,906,458,489
2015	1,250,627,456	337,269,906	5,931,733	1,052,124,730	864,832,332	377,236,612	33,306,955	3,921,329,723

As indicated on page 10 of this Exhibit, the forecasted weather normalized billed kWh for the 2014 Bridge and 2015 Test Years are 3,980,104,863 kWh and 4,063,316,871 kWh, respectively. These numbers are different from the forecasted billed kWh presented in **Table 13** above. In order to reconcile these numbers, the non-normalized kWh amounts identified in **Table 13** were adjusted based on weather sensitivity factors.

Hydro One Brampton engaged Hydro One Networks Inc. to determine the weather sensitivity of the of the various rate classes for this Application. The results indicated weather sensitivity of 100% for both Residential and General Service < 50 kW rate classes. The weather sensitivity of the General Service > 50 kW, General Service > 700 kW, and Large User classes are 60%, 26% and 26%, respectively. Unmetered Scattered Load and Street Lighting classes are not affected by changes in weather. The difference between the non-normalized and the normalized forecast for 2014 and 2015 has been assigned on a pro rata basis to each rate class based on the above level of weather sensitivity. This information is presented in **Table 14** below.

Table 14: Weather Sensitivity by Rate Class

Year	Residential	General Service < 50 kW	Unmetered Scattered Load	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights	Total
2014	35,710,310	9,633,598	-	18,827,067	6,646,107	2,829,291	-	73,646,374
2015	69,711,799	18,799,917	-	35,423,727	12,668,804	5,382,902	-	141,987,148

The weather non-normalized billed forecast kWh is then adjusted by the allocated weather sensitivity data present in **Table 14** above to derive the weather normalized billed forecast kWh. **Table 15** below provides the weather normalized billed forecast kWh, excluding CDM and wholesale market participant adjustments, for the 2014 Bridge Year and the 2015 Test Year.

Table 15: Normalized Billed Forecast kWh⁷

Year	Residential	General Service < 50 kW	Unmetered Scattered Load	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights	Total
2014	1,259,753,300	339,844,610	5,818,253	1,087,234,825	873,498,257	381,669,818	32,285,800	3,980,104,863
2015	1,320,339,255	356,069,822	5,931,733	1,087,548,457	877,501,136	382,619,513	33,306,955	4,063,316,871

Wholesale Market Participants Adjustment

Wholesale market participants are customers who buy power directly from the Independent Electricity System Operator ("IESO") and use the distribution system of LDCs to deliver the power to their business locations. Hydro One Brampton has four wholesale market participants operating within its distribution territory. They are billed transmission and distribution charges by HOBNI for use of its facilities in delivering power to their service addresses within the City of Brampton. Other charges such as commodity, global adjustment and wholesale market service are billed directly to the wholesale market participants by the IESO.

HOBNI has included the power purchased by wholesale market participants in its historical purchased kWh for load forecasting purposes. Further, HOBNI has also included the related kW for wholesale market participants in the billed kW for the General Service > 700 kW class. These adjustments were necessary to ensure the accuracy of the 2014 Bridge Year and the 2015 Test Year forecast billed kW for the General Service > 700 class.

The forecasted kWh for wholesale market participants was subsequently removed from the forecasted kWh for the General Service > 700 kW class after the calculation of billed kW for the class. See **Tables 17** and **18** below.

Table 16 below shows the historical and forecasted kWh for the wholesale market participants since 2011. The forecasted kWh for the 2014 Bridge Year was calculated by multiplying the actual kWh for 2013 by one plus the five year historical average growth rate for the General Service > 700 class. The forecast for the 2015 Test Year was calculated by applying the same growth rate to the 2014 Bridge Year forecast. The five year historical average growth rate for the General Service > 700 is approximately 0.01%.

⁷ For more details on the results presented in Tables 13, 14 & 15 refer to the *Rate Class Energy Model Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

Please note that the program commenced in May 2011 and this explains the lower kWh in 2011.

Table 16: Historical and Forecasted kWh for Wholesale Market Participants⁸

Year	2011	2012	2013	2014 Bridge Year	2015 Test Year	Total
Billed kWh	29,584,746	50,918,813	55,911,393	55,914,853	55,918,315	248,248,120
Uplifted Billed	30,590,627	52,650,053	57,812,380	57,815,958	57,825,129	256,694,148

After calculating the billed kWh for the General Service > 700 kW class, the kWh associate with wholesale market participants was then deducted from the weather normalized billed kWh to arrive at the final forecasted billed kWh for General Service > 700 kW class.

Forecasted Weather Normalized Billed kWh after Adjusting for CDM and Wholesale Market Participants

Tables 17 and **18** below provide detail on the final weather normalized billed kWh, after adjusting for CDM and Wholesale Market Participants, for the rate classes that were included in the regression analysis. The CDM adjustments included in **Tables 17** and **18** below are net of losses. Detail CDM adjustments are discussed in *Schedule 2* of this Exhibit.

The kWh and kW for the Embedded Distributor, Distributed Generation and Energy from Waste Generation rate classes are discussed below.

Table 17: 2014 Weather Normalized Billed kWh Forecast after Adjusting for CDM and Wholesale Market Participants

Rate Class	Non-Normalized Billed Energy	Adjustment for Weather Normalization	Normalized Billed Energy	CDM Adjustment	Weather Normal Billed Energy Forecast After CDM Adjustment	Wholesale Market Participant Adjustment	Weather Normal Billed Energy Forecast
Residential	1,224,042,990	35,710,310	1,259,753,300	(10,299,141)	1,249,454,159	-	1,249,454,159
General Service < 50 kW	330,211,012	9,633,598	339,844,610	(1,194,987)	338,649,623	-	338,649,623
Unmetered Scattered Load	5,818,253	-	5,818,253	-	5,818,253	-	5,818,253
General Service > 50 to 699 kW	1,068,407,758	18,827,067	1,087,234,825	(19,661,974)	1,067,572,851	-	1,067,572,851
General Service > 700 to 4999 kW	866,852,150	6,646,107	873,498,257	(13,171,813)	860,326,444	(55,914,853)	804,411,590
Large User	378,840,527	2,829,291	381,669,818	-	381,669,818	-	381,669,818
Street Lights	32,285,800	-	32,285,800	-	32,285,800	-	32,285,800
Total	3,906,458,489	73,646,374	3,980,104,863	(44,327,915)	3,935,776,948	(55,914,853)	3,879,862,095

⁸ For more details on the results presented in Table 16 refer to the "WH MRK PART". Tab in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

Table 18: 2015 Weather Normalized Billed kWh Forecast after Adjusting for CDM and Wholesale Market Participants⁹

Rate Class	Non-Normalized Billed Energy	Adjustment for Weather Normalization	Normalized Billed Energy	CDM Adjustment	Weather Normal Billed Energy Forecast After CDM Adjustment	Wholesale Market Participant Adjustment	Weather Normal Billed Energy Forecast
Residential	1,250,627,456	69,711,799	1,320,339,255	(12,074,272)	1,308,264,983	-	1,308,264,983
General Service < 50 kW	337,269,906	18,799,917	356,069,822	(1,400,952)	354,668,870	-	354,668,870
Unmetered Scattered Load	5,931,733	-	5,931,733	-	5,931,733	-	5,931,733
General Service > 50 to 699 kW	1,052,124,730	35,423,727	1,087,548,457	(23,050,858)	1,064,497,599	-	1,064,497,599
General Service > 700 to 4999 kW	864,832,332	12,668,804	877,501,136	(15,428,642)	862,072,495	(55,918,315)	806,154,180
Large User	377,236,612	5,382,902	382,619,513	-	382,619,513	-	382,619,513
Street Lights	33,306,955	-	33,306,955	-	33,306,955	-	33,306,955
Total	3,921,329,723	141,987,148	4,063,316,871	(51,954,724)	4,011,362,147	(55,918,315)	3,955,443,833

Load Forecast for Embedded Distributor, Distributed Generation and Energy from Waste Generation

As outlined above, energy supplied to the Embedded Distributor, Distributed Generation and Energy from Waste Generation rate classes were excluded from the general regression model. The Embedded Distributor class was excluded because future load is expected to drop significantly compared to historical load and inclusion in the regression analysis would skew the results. According to projections from HOBNI's engineering group, the load forecast for the Embedded Distributor class in the 2014 Bridge Year is expected to be zero and the 2015 Test Year load is expected to be less than one half the actual for 2013.

The Distributed Generation and Energy from Waste Generation classes were excluded because the existing data was insufficient for the regression analysis. There is no data for the Energy from Waste Generation class since they do not purchase load from HOBNI and the Distributed Generation class only started purchasing load from HOBNI in 2011.

To forecast consumption data for the 2014 Bridge Year and 2015 Test Year for the Embedded Distributor and Distributed Generation rate classes, HOBNI used the actual load profile for 2013. As noted above, the load forecast for the Embedded Distributor class in the 2014 Bridge Year will be zero.

Table 19 below provides forecasted billed kWh and kW as well as the forecasted customer counts for these rate classes.

⁹ For more details on the calculations presented in Tables 17 & 18 refer to the Tables 13-16 above.

Table 19: Forecasted Load and Customer Count for the Proposed New Rate Classes

Description	Embedded Distributor		Distributed Generation		Energy From Waste Generation	
	2014 Bridge Year	2015 Test Year	2014 Bridge Year	2015 Test Year	2014 Bridge Year	2015 Test Year
Billed kWh	0	17,012,414	113,715	178,816	0	0
Billed kW	0	40,073	0	0	0	0
Uplifted kWh	0	17,432,620	117,684	184,913	0	0
Number of Customers	1	1	43	68	1	1

Summary of Total Forecasted Billed kWh and Customer/Connection Counts

Table 20 below provides a summary of the total forecasted billed kWh and customer/connection counts for all customer classes for the 2014 Bridge Year and the 2015 Test Year. The forecasted billed kWh for the 2014 Bridge Year is 3,879,975,810 meanwhile forecasted billed kWh for the 2015 Test Year is 3,972,635,063. HOBNI is also forecasting an average of 147,788 customers in 2014 and 151,708 in 2015. Connection count is expected to average 23,548 and 23,896 in 2014 and 2015, respectively.

Table 20: Summary of Total Forecasted Billed kWh and Customer/Connection Counts¹⁰

Rate Class	2014 Weather Normalized Billed Energy Forecast	2015 Weather Normalized Billed Energy Forecast	2014 Customer Counts	2015 Customer Counts	2014 Connection Counts	2015 Connection Counts
Residential	1,249,454,159	1,308,264,983	137,303	140,979		
General Service < 50 kW	338,649,623	354,668,870	8,758	8,989		
Unmetered Scattered Load	5,818,253	5,931,733	57	56	1,519	1,562
General Service > 50 to 699 kW	1,067,572,851	1,064,497,599	1,501	1,491		
General Service > 700 to 4999 kW	804,411,590	806,154,180	115	115		
Large User	381,669,818	382,619,513	6	6		
Street Lights	32,285,800	33,306,955	2	2	22,029	22,335
Embeddded Distributor	-	17,012,414	1	1		
Distributed Generation	113,715	178,816	43	68		
Energy From Waste Generation	-	-	1	1		
Bakup/Standby	-	-	1	1		
Total	3,879,975,810	3,972,635,063	147,788	151,708	23,548	23,896

¹⁰ For more details on the results presented in Tables 19 & 20 refer to the *Summary Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

Billed kW Load Forecast

The volumetric revenue components for General Service > 50 kW, General Service > 700 kW, Large User and Street Lights rate classes are calculated based on billed kW demand. Since the load forecast is calculated based on kWh, forecasted kW for these classes must be correlated with the forecasted kW for each class. In order to convert billed kWh to billed kW, Hydro One Brampton calculated the historical ratios between kW and kWh for the most recent five years for each class. An average of the ratios associated with these five years was then used to multiply the forecasted weather normalized billed kWh, after adjusting for CDM impact, to determine the forecasted kW demands for each class. **Tables 21, 22, 23A and 23B** provide information on historical billed kW, ratio of historical billed kW to billed kWh and forecasted billed kW, respectively.

Table 21: Historical Billed kW by Year

Year	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights	Total
2003	2,726,683	1,956,285	531,189	58,415	5,272,572
2004	2,792,673	2,104,962	505,001	60,474	5,463,110
2005	2,901,457	2,167,872	515,785	65,522	5,650,636
2006	2,962,866	2,137,488	589,471	70,150	5,759,975
2007	3,039,974	2,106,615	639,861	76,385	5,862,835
2008	3,064,109	1,976,551	712,935	79,929	5,833,524
2009	3,049,119	1,839,970	696,851	81,921	5,667,861
2010	3,049,813	1,916,781	684,290	84,893	5,735,777
2011	3,051,053	1,894,300	716,743	90,235	5,752,331
2012	3,074,186	1,928,037	736,260	92,995	5,831,478
2013	3,051,058	1,980,476	701,011	95,410	5,827,955

Table 22: Historical Billed kW/kWh Ratio by Year¹¹

Year	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights
2003	0.2738%	0.2315%	0.1885%	0.3057%
2004	0.2671%	0.2281%	0.1739%	0.2885%
2005	0.2679%	0.2272%	0.1694%	0.2991%
2006	0.2741%	0.2249%	0.1764%	0.2949%
2007	0.2739%	0.2236%	0.1801%	0.2962%
2008	0.2744%	0.2266%	0.1835%	0.2984%
2009	0.2821%	0.2334%	0.2034%	0.2996%
2010	0.2801%	0.2282%	0.1884%	0.2996%
2011	0.2773%	0.2280%	0.1817%	0.3033%
2012	0.2790%	0.2245%	0.1830%	0.3039%
2013	0.2812%	0.2279%	0.1843%	0.3049%
5-Year Average	0.2799%	0.2284%	0.1882%	0.3023%

Table 23A: 2014 Billed kW Forecast

Description	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights	Total
Forecasted kWh	1,067,572,851	860,326,444	381,669,818	32,285,800	2,341,854,913
Ratio of kW/kWh	0.2799%	0.2284%	0.1882%	0.3023%	0.2464%
Forecasted Billed kW	2,988,434	1,965,158	718,200	97,585	5,769,378

Table 23B: 2015 Billed kW Forecast¹²

Description	General Service > 50 to 699 kW	General Service > 700 to 4999 kW	Large User	Street Lights	Total
Forecasted kWh	1,064,497,599	862,072,495	382,619,513	33,306,955	2,342,496,561
Ratio of kW/kWh	0.2799%	0.2284%	0.1882%	0.3023%	0.2463%
Forecasted Billed kW	2,979,826	1,969,146	719,987	100,672	5,769,631

¹¹ For more details on the results presented in Tables 21 & 22 refer to the *Rate Class Load Model Tab* in the HOBN Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

¹² Values in Tables 23A & 23B are based on data presented in Tables 17, 18 & 22

Transformer Ownership Allowance Credit

Hydro One Brampton currently provides transformer allowance credit to customers who own their own transformers. Currently, only customers in the General Service > 50 kW and the General Service > 700 kW classes are eligible.

Hydro One Brampton is proposing to provide eligible customers in the General Service < 50 kW class transformer allowance credit. From time to time, customers are reclassified from one class to another depending on changes in their consumption pattern. For example, a customer currently in the General Service > 50 kW class may be reclassified to the General Service < 50 kW class in a year from now because of a reduction in its consumption pattern. If that customer is currently eligible for transformer allowance credit, the reclassification to the General Service < 50 kW class would deem the customer ineligible for transformer allowance credit given that there is no provision in the current rate schedule. The proposal been put forward by Hydro One Brampton would address this issue.

Hydro One Brampton is also proposing new transformer allowance rates for the existing classes. The current rates are (\$0.7048) and (\$0.8758)¹³ for the General Service > 50 kW class and the General Service > 700 kW class, respectively. The proposed rates are (\$0.0033), (0.7019) and (\$0.8737)¹⁴ for the General Service < 50 kW class, General Service > 50 kW class and the General Service > 700 kW class, respectively.

To derive the forecasted transformer allowance credit for each rate class, HOBNI calculated the average historical relationship between billed transformer allowance quantities and the total historical billed quantities over a five year period (2009 to 2013). Once these ratios were calculated, they were then multiplied by the forecasted billed quantities and the existing rates (for 2014) and the proposed rates (for 2015) to derive the transformer allowance credits. The forecasted billed quantities are summarized in **Tables 20, 23A and 23B** above. The historical billed quantities are summarized in **Table 1** in *Tab 2 Schedule 2* of this Exhibit. **Tables 24, 25 and 26** provide a summary of the calculation of the transformer allowance credits.

¹³ Refer to Exhibit 8 Tab 9 Schedule 1 Appendix 2 "2014 Hydro One Brampton Current Tariff and Rates

¹⁴ Refer to Exhibit 8 Tab 9 Schedule 1 Appendix 3 "2015 Hydro One Brampton Proposed Tariff and Rates

Table 24: Calculation of Historical Transformer Allowance Ratios

Year	General Service < 50 kW			General Service > 50 kW			General Service > 700 kW		
	Historical Transformer Allowance kWh (A)	Total Historical Billed kWh for Rate Class (B)	Historical Ratio (A ÷ B)	Historical Billed Transformer Allowance kW (C)	Total Historical Billed kWh for Rate Class (D)	Historical Ratio (C ÷ D)	Historical Billed Transformer Allowance kW (E)	Total Historical Billed kWh for Rate Class (F)	Historical Ratio (E ÷ F)
2009	296,906	283,991,997	0.10%	273,288	3,049,083	8.96%	1,505,237	1,839,970	81.81%
2010	308,813	291,782,860	0.11%	239,997	3,049,813	7.87%	1,593,722	1,916,781	83.15%
2011	311,192	309,962,282	0.10%	251,508	3,051,053	8.24%	1,588,949	1,894,300	83.88%
2012	315,016	315,917,674	0.10%	267,290	3,074,187	8.69%	1,629,356	1,928,038	84.51%
2013	361,185	323,299,858	0.11%	205,212	3,051,064	6.73%	1,383,849	1,980,483	69.87%
Total	1,593,112	1,524,954,672		1,237,295	15,275,200		7,701,112	9,559,572	
5-Year Weighted Average Ratio			0.10%			8.10%			80.56%

Table 25: Proposed Transformer Allowance Credit for 2014 Bridge Year

Rate Class	2014 Forecasted Billed Quantities (A)	Historical Ratio (B)	Existing Transformer Allowance Rate (C)	2014 Forecasted Transformer Allowance Credit (A × B × C)
General Service < 50 kWh	338,649,623	0.10%	-	-
General Service > 50 kW	2,988,434	8.10%	-0.7048	(170,607)
General Service > 700 kW	1,965,158	80.56%	-0.8758	(1,386,492)
Total				(1,557,099)

Table 26: Proposed Transformer Allowance Credit for 2015 Test Year

Rate Class	2015 Forecasted Billed Quantities (A)	Historical Ratio (B)	Proposed Transformer Allowance Rate (C)	2015 Forecasted Transformer Allowance Credit (A × B × C)
General Service < 50 kWh	354,668,870	0.10%	(0.0033)	(1,223)
General Service > 50 kW	2,979,826	8.10%	(0.7019)	(169,415)
General Service > 700 kW	1,969,146	80.56%	(0.8737)	(1,385,975)
Total				(1,556,613)

CDM ADJUSTMENT TO LOAD FORECAST

Adjustments to the Load Forecast for CDM

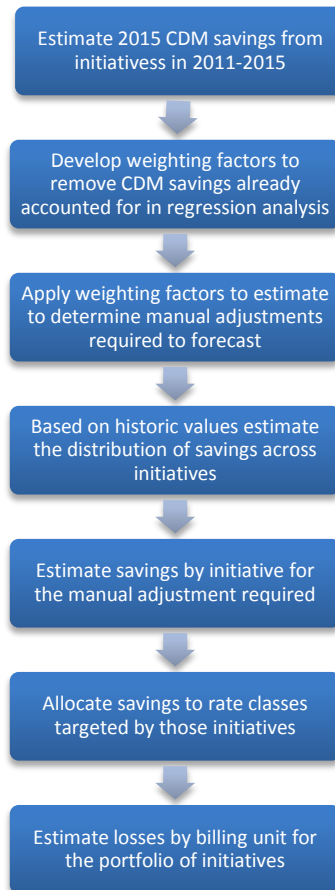
Consistent with the Board's *Guidelines for Electricity Distributor Conservation and Demand Management* (EB-2012-0003), dated April 26, 2012, HOBNI has integrated a manual adjustment into its 2015 load forecast for anticipated CDM results.

The load forecast, which draws on the regression analysis of historical actual usage data, accounts for some but not all of the load reductions that are expected from HOBNI's CDM initiatives in 2015.

To calculate the aggregate amount for the Lost Revenue Adjustment Mechanism Variance Account ("LRAMVA"), and estimate the corresponding CDM adjustment to load forecast, HOBNI used the methodology proposed by the Board and is set out in *Appendix 2-I Load Forecast CDM Adjustment Work Form (2014)*.

The methodology adopted by HOBNI is summarized in **Figure 1**. In this section, each of these steps will be described, and the relevant data for HOBNI's forecast presented in **Tables 27 to 32** below.

Figure 1. Methodology for calculating adjustments required to the forecast for CDM



Estimating 2015 Savings

The methodology for estimating 2015 savings is consistent with the methodology set out in the OEB *Appendix 2-1*. Historic data on the persistence of 2011 and 2012 initiative savings through 2014 are subtracted from the OEB assigned target for 2014, and this difference is allocated 1/3 to 2013 initiatives in 2013, 1/3 to 2013 initiatives in 2014 and 1/3 to 2014 initiatives in 2014.

A new framework will be introduced in 2015, the details of which have not yet been fully determined. The Ontario Power Authority has discussed ending various province-wide initiatives

that are reaching saturation, and the Minister of Energy has indicated that LDCs will have a greater role in delivering CDM programs and initiatives in 2015. New initiatives are also expected to be introduced, but these are not yet defined, and are likely to yield modest results in 2015, as they ramp up.

As a transition year, with new initiatives starting up and some of the older initiatives discontinued, HOBNI anticipates that savings are likely to be lower than in the latter years of the 2011-2014 framework, and has estimated the savings in 2015 from initiatives offered in that year as equivalent to those realized in 2012. **Table 27** shows the overall estimated 2015 savings, based on these two considerations (the allocation of remaining savings to reach the targets, and the 2015 initiative savings).

Table 27: Estimated CDM Savings by Year 2011-2015 (net kWh)

Programs	Energy savings (net kWh)					Total
	2011	2012	2013	2014	2015	
2011 CDM Programs	13,923,054	13,787,187	13,787,187	13,783,181	13,779,046	69,059,656
2012 CDM Programs		15,234,570	15,163,186	15,160,146	15,155,598	60,713,500
2013 CDM Programs			29,567,163	29,567,163	29,558,293	88,692,618
2014 CDM Programs				29,567,163	29,558,293	59,125,455
2015 CDM Programs					15,234,570	15,234,570
Total in Year	13,923,054	29,021,757	58,517,536	88,077,653	103,285,799	292,825,799

Notes:

- 2011 and 2012 values are actual net energy savings, based on OPA final results.
- 2013 and 2014 results are based on an 1/3 of remaining target in each year.
- The sum of estimated savings above for 2011-2014 is the same as the target: 189,540,000 kWh.
- A modest loss of persistence, consistent with the year over year change seen in other years is assumed for 2015 (0.9997)
- 2015 results are estimated to be the same as 2012 results in 2012.

Weight Factors for 2015 Savings to be Included in the Forecast

The 2015 column in **Table 27** shows estimated savings in 2015 from initiatives in each of the years 2011 through 2015 inclusive. Total CDM impact on the load forecast in 2015 of 103,285,799 kWh consists of persisting CDM results from 2011 and 2012, persisting CDM results from 2013, persisting results from 2014 and in-year results in 2015.

Results from 2011 and 2012 are already captured in the forecast through the use of actual usage data for 2011 through 2012 in the regression analysis, and thus CDM results from 2011 and 2012 initiatives are fully captured already.

The 2013 program results in **Table 27** are for the full year of results, consistent with the way the OPA reports on CDM results. Since 2013 programs were implemented throughout the entire year, on average only about half of the anticipated annualized results (or about 15 GWh) would be expected in 2013, and these would be captured in the forecast. However, those measures will result in CDM savings of about 30 GWh in 2015, as the full set of measures installed throughout 2013 will realize savings for the full year in 2015. In order to capture the difference between the results incorporated in the regression analysis, and the actual anticipated results, the additional 15 GWh needs to be captured in the adjustment to the forecast. This is done by setting the weight for 2013 programs in 2015 to 0.5.

None of the results from 2014 initiatives is captured through the regression analysis as this is a forecast year, so a weighting factor of 1.0 is used for 2014 results that persist into 2015. Although only about half of annualized 2014 program results will actually be realized in 2014, those measures will be available for the full year of 2015 and therefore a weighting factor of 1.0 is needed.

Consistent with the above, a weighting factor of 0.5 is required for the 2015 results, as the measures will be implemented throughout the year, and on average can only be expected to be present for about half the year. Applying the 0.5 weighting factor to the anticipated results ensures that the manual adjustment to the load forecast captures the expected impact on load. **Table 28** below shows the weight factors for each year's CDM program impact on 2015 load forecast.

Table 28: Weighting Factor for each CDM Program Impact on 2015 Load Forecast

Description	2015 Savings From Programs Offered in the Following Years				
	2011	2012	2013	2014	2015
Weighting Factor for each year's CDM program impact on 2015 load forecast	0	0	0.5	1	0.5
<i>Value selection rationale.</i>	<i>Actuals captured in regression analysis</i>	<i>Actuals captured in regression analysis</i>	<i>50% of 2013 CDM impact reflected in base forecast based on 1/2 year rule.</i>	<i>Full year impact of 2014 CDM programs on adjustment for 2015 load forecast</i>	<i>50% of 2015 CDM impact reflected in base forecast based on 1/2 year rule.</i>

Manual Adjustment Required to the 2015 Load Factor

Applying the weighting factors in **Table 28** to the 2015 savings in **Table 27** results in the manual adjustment required to the 2015 load forecast. These numbers are then adjusted to account for estimated line losses. This approach is consistent with that laid out in the Board Appendix 2-I. The resulting manual adjustment required to the 2015 load forecast is shown on Table 29 below. The total manual adjustment required to 2015 load forecast is 53,726,380 kWh.

Table 29: Manual Adjustment Required to 2015 Load Forecast

Description	2015 net energy savings (kWh) from programs offered in					Total for 2015
	2011	2012	2013	2014	2015	
Amount used for CDM threshold for LRAMVA (2015)	13,779,046	15,155,598	29,558,293	29,558,293	15,234,570	103,285,799
Weight factor on 2015 load forecast	0	0	0.5	1	0.5	
Manual adjustment for 2015 load forecast (billed basis)	-	-	14,779,146	29,558,293	7,617,285	51,954,724
Proposed Loss Factor (TLF)	3.41%					
Manual adjustment required to 2015 load forecast	-	-	15,283,115	30,566,230	7,877,034	53,726,380

The next step is to estimate the incremental revenue requirement associated with this total amount. In order to perform these calculations, the total kWh savings need to be assigned to the individual rate classes.

Historic Split of Savings across Rate Classes

In the absence of specific information on what initiatives will be offered in 2015, HOBNI has estimated the distribution across rate classes based on historic values for CDM initiatives. The historic energy savings from CDM initiatives are reported by the OPA by initiative, not by rate class, though many initiatives are targeted at a particular rate class. Some initiatives, such as the Equipment Replacement Incentive Initiative (ERII), may be utilized by multiple rate classes.

Table 30 shows energy savings and demand reductions by initiative for 2011 through 2013. The 2011 and 2012 values are based on OPA measured results. The 2013 values are HOBNI estimates, drawing on OPA preliminary results in quarterly reports. HOBNI anticipates that actual results will be higher than those shown as additional projects are realized. Next, the total savings for all initiatives, the percentage of total savings attributable to each initiative for both

1 energy (kWh) and demand (kW), and the average ratio of demand to energy over the three years for the portfolio of initiatives are
2 shown in **Table 30**.

3 **Table 30: Historic Allocation of Savings across CDM Programs**

Program		2011 Actual		2012 Actual		2013 Estimate		Total		Percentage		kW/kWh	
		kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW (annual)	kWh		
1	Appliance Retirement	49	355,028	33	230,362	40	120,452	122	705,842	0.64%	1.67%	0.000173	
2	Appliance Exchange	4	5,189	5	8,106	1	848	10	14,143	0.05%	0.03%	0.000740	
3	HVAC Incentives	909	1,654,205	710	1,202,085	1,000	1,900,000	2,619	4,756,290	13.68%	11.25%	0.000551	
4	Conservation Instant Coupon Booklet	39	651,777	6	39,402	25	400,000	70	1,091,179	0.36%	2.58%	0.000064	
5	Bi-Annual Retailer Event	50	889,674	42	754,713	15	200,000	107	1,844,387	0.56%	4.36%	0.000058	
6	Retailer Co-Op	-	-	-	-	-	-	-	-	0.00%	0.00%		
7	Residential Demand Response (switch/pstat)	-	-	467	3,387	750	1,400,000	1,217	1,403,387	6.36%	3.32%	0.000867	
8	Residential Demand Response (IHD)	-	-	-	-	-	-	-	-	0.00%	0.00%		
9	Residential New Construction	-	-	-	-	-	-	-	-	0.00%	0.00%		
10	Retrofit	772	3,258,374	2,097	12,489,528	1,200	7,679,188	4,069	23,427,090	21.25%	55.41%	0.000174	
11	Direct Install Lighting	-	-	-	-	600	1,140,000	600	1,140,000	3.13%	2.70%	0.000526	
12	Building Commissioning	-	-	-	-	-	-	-	-	0.00%	0.00%		
13	New Construction	-	-	-	-	-	-	-	-	0.00%	0.00%		
14	Energy Audit	-	-	16	75,529	-	-	16	75,529	0.08%	0.18%	0.000212	
15	Small Commercial Demand Response (switch/pstat)	-	-	-	-	-	-	-	-	0.00%	0.00%		
16	Small Commercial Demand Response (IHD)	-	-	-	-	-	-	-	-	0.00%	0.00%		
17	Demand Response 3	57	2,251	58	840	500	19,400	615	22,491	3.21%	0.05%	0.027365	
18	Process & System Upgrades	-	-	-	-	-	-	-	-	0.00%	0.00%		
19	Monitoring & Targeting	-	-	-	-	-	-	-	-	0.00%	0.00%		
20	Energy Manager	-	-	-	-	-	-	-	-	0.00%	0.00%		
21	Retrofit	190	1,185,812	-	-	1,000	6,399,323	1,190	7,585,135	6.22%	17.94%	0.000157	
22	Demand Response 3	2,276	133,616	2,787	67,157	3,200	1,000	8,263	201,773	43.15%	0.48%	0.040953	
23	Home Assistance Program	-	-	-	-	250	10,000	250	10,000	1.31%	0.02%	0.025000	
Total		0	4,348	8,135,925	6,221	14,871,109	8,581	19,270,212	19,150	42,277,245	100.00%	100.00%	0.000453

Notes:

2011 and 2012 actuals are from OPA final results
2013 estimate prepared by HOBNI
pre-2011 programs are excluded

Estimate Savings by Initiative for the Manual Adjustment Required

Applying the percentages by initiative in **Table 30** to the aggregate manual adjustment required gives the distribution of the savings in that adjustment across initiatives, and is shown in the “Forecast allocation” columns in **Table 31**.

Allocate Savings to Rate Classes

The savings by initiative are allocated to individual rate classes based on the target consumers for those programs. As mentioned above, for many programs, only one customer class is targeted. For others, more than one customer class may be targeted. In the latter case, HOBNI has estimated the split across rate classes based on the estimated split in 2013.

Convert Energy Savings by Rate Class to the Billing Units for Each Rate class

Finally, the energy savings measured in kilowatt-hours by each rate class are converted to billing units for that rate class based on the ratio of demand (kW) to energy (kWh) presented on **Table 30** and, for rate classes that bill by customer monthly peak demand, multiplying by 12 for the number of billings per year. The resulting impact on billing units by initiative, and in total, is presented in the final four columns of **Table 31**.

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Table 31: Allocation of 2015 Forecast Adjustment across Programs and Rate Classes

Program		Percentage		Forecast allocation		Forecast allocation by rate class (energy)				Forecast allocation by rate class (billing unit)			
		kW (annual)	kWh	kW	kWh	Residential	GS < 50 kW	GS 50 to 699 kW	GS 700 to 4,999 kW	Residential	GS < 50 kW	GS 50 to 699 kW	GS 700 to 4,999 kW
						kWh	kWh	kWh	kWh	kWh	kWh	kW-mo	kW-mo
1	Appliance Retirement	0.64%	1.67%	155	896,991	896,991				896,991			
2	Appliance Exchange	0.05%	0.03%	13	17,973	17,973				17,973			
3	HVAC Incentives	13.68%	11.25%	3,328	6,044,345	6,044,345				6,044,345			
4	Conservation Instant Coupon Booklet	0.36%	2.58%	88	1,386,682	1,386,682				1,386,682			
5	Bi-Annual Retailer Event	0.56%	4.36%	137	2,343,866	2,343,866				2,343,866			
6	Retailer Co-Op			-	-								
7	Residential Demand Response (switch/pstat)	6.36%	3.32%	1,547	1,783,439	1,783,439				1,783,439			
8	Residential Demand Response (IHD)			-	-								
9	Residential New Construction			-	-								
10	Retrofit	21.25%	55.41%	5,171	29,771,399			17,862,840	11,908,560			37,232	24,821
11	Direct Install Lighting	3.13%	2.70%	762	1,448,724		1,448,724				1,448,724		
12	Building Commissioning			-	-								
13	New Construction			-	-								
14	Energy Audit	0.08%	0.18%	20	95,983			47,992	47,992			122	122
15	Small Commercial Demand Response (switch/pstat)			-	-								
16	Small Commercial Demand Response (IHD)			-	-								
17	Demand Response 3	3.21%	0.05%	782	28,581			14,290.64	14,290.64			N/A*	N/A*
18	Process & System Upgrades			-	-								
19	Monitoring & Targeting			-	-								
20	Energy Manager			-	-								
21	Retrofit	6.22%	17.94%	1,513	9,639,272			5,783,563	3,855,709			10,892	7,261
22	Demand Response 3	43.15%	0.48%	10,501	256,415			128,208	128,208			N/A*	N/A*
23	Home Assistance Program	1.31%	0.02%	318	12,708	12,708				12,708			
Total		100.00%	100.00%	24,336	53,726,380	12,486,005	1,448,724	23,836,892	15,954,758	12,486,005	1,448,724	48,246	32,205

2
3

Summary by Rate Class

The estimated allocation of the manual adjustment by rate class, in both total energy units (kWh) and billing units by rate class is summarized in **Table 32**. HOBNI acknowledges that there are a number of assumptions about CDM programs in 2013 through 2015 that go into these values that will need to be adjusted. Through the LRAMVA process, actual impacts on billing units will be trued up once the 2015 measured results are available from the evaluation of initiatives.

Table 32: Allocation of Manual Adjustment across Rate Classes for 2015

Rate class	kWh	kW
Residential	12,486,005	-
GS < 50 kW	1,448,724	-
GS 50 to 699 kW	23,836,892	48,246
GS 700 to 4,999 kW	15,954,758	32,205
GS 700 to 4,999 kW	-	-
Large Use	-	-
Sentinel Lighting	-	-
Standby Power	-	-
Street Lighting	-	-
Total	53,726,380	80,450

EXHIBIT 3: Operating Revenue

Appendix 1

OEB Appendix 2-I – Load Forecast CDM Adjustment Work Form

Appendix 2-I

Load Forecast CDM Adjustment Work Form (2015)

Input the 2011-2014 CDM target in Cell B21.

Input the measured results for 2011 CDM programs for each of the years 2011 and persistence into 2012, 2013 and 2014 into cells B29 to E29. These results are taken from the final 2011 CDM Report issued by the OPA for that distributor in the fall of 2012.

Measured results for 2012 CDM programs for each of the years 2012 and persistence into 2013 and 2014 are input into cells C30 to E30. These results are taken from the final 2012 CDM Report issued by the OPA for that distributor in the fall of 2013. Until that report is issued, the distributor should use the results from the preliminary 2012 CDM Report issued in the spring of 2013.

Based on these inputs, the residual kWh to achieve the 4 year CDM target is allocated so that there is an equal incremental increase in each of the years 2012, 2013 and

4 Year (2011-2015) kWh Target:						
189,540,000						
	2011	2012	2013	2014	Total	2015
2011 CDM Programs	7.35%	7.27%	7.27%	7.27%	29.17%	
2012 CDM Programs		8.04%	8.00%	8.00%	24.04%	
2013 CDM Programs			15.60%	15.60%	31.20%	
2014 CDM Programs				15.60%	15.60%	
Total in Year	7.35%	15.31%	30.87%	46.47%	100.00%	
kWh						
2011 CDM Programs	13,923,053.87	13,787,187.29	13,787,187.29	13,783,181.19	55,280,609.64	13,779,046.24
2012 CDM Programs		15,234,570.00	15,163,186.23	15,160,146.04	45,557,902.27	15,155,598.00
2013 CDM Programs			29,567,162.70	29,567,162.70	59,134,325.39	29,558,292.55
2014 CDM Programs				29,567,162.70	29,567,162.70	29,558,292.55
2015 CDM Programs						15,234,570.00
Total in Year	13,923,053.87	29,021,757.29	58,517,536.21	88,077,652.63	189,540,000.00	103,285,799.33

From each of the 2006-2010 CDM Final Report, 2011 CDM Final Report, and the 2012 CDM Final Report, issued by the OPA for the distributor, the distributor should input the "gross" and "net" results of the cumulative CDM savings for 2014 into cells D31 to E33. The model will calculate the cumulative savings for all programs from 2006 to 2012 and determine the "net" to "gross" factor "g".

The Board has determined that the "net" number should be used in its Decision and Order with respect to Centre Wellington Hydro Ltd.'s 2013 Cost of

Net-to-Gross Conversion				
Is CDM adjustment being done on a "net" or "gross" basis?				net
	"Gross"	"Net"	Difference	"Net-to-Gross"
Persistence of Historical CDM programs to 2014	kWh	kWh	kWh	('g')
2006-2010 CDM programs	64,279,013.00	38,085,814.92		
2011 CDM program	18,785,313.86	13,783,181.19		
2012 CDM program	20,785,293.14	15,160,146.04		
2006 to 2012 OPA CDM programs: Persistence to 2014	103,849,620.01	67,029,142.16	36,820,477.84	0.00%

Appendix 2-I

Load Forecast CDM Adjustment Work Form (2015)

The default values represent the factor that 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.

These factors do not mean that CDM programs are excluded, but also reflect the assumption that impacts of 2011 and 2012 programs are already

Weight Factor for Inclusion in CDM Adjustment to 2015 Load Forecast					
	2011	2012	2013	2014	2015
Weight Factor for each year's CDM program impact on 2014 load forecast	0	0	0.5	1	0.5
Default Value selection rationale.	Persistence of 2011 CDM programs for the full year of 2012 means that all of 2011 CDM impact is assumed to be in the base forecast before the CDM Adjustment	Persistence of 2012 CDM programs for the full year of 2013 means that all of 2012 CDM impact is assumed to be in the base forecast before the CDM Adjustment	50% of 2013 CDM impact is assumed reflected in base forecast based on 1/2 year rule.	Full year impact of 2014 CDM programs on adjustment for 2015 load forecast	Only 50% of 2015 CDM impact is used based on a half year rule

Utility can select "0", "0.5", or "1" from drop-down list

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

The proposed loss factor should correspond with the loss factor calculated in Appendix 2-R

The Manual Adjustment for the 2014 Load Forecast is the amount manually subtracted from the load forecast derived from the base forecast from

If the distributor has developed their load forecast on a system purchased basis, then the manual adjustment should be on system purchased basis,

The distributor should determine the allocation of the savings to all customer classes in a reasonable manner, for both the LRAMVA and for the load

	Accumulated CDM kWh Reductions in 2015					
	2011	2012	2013	2014	2015	Total for 2015
Amount used for CDM threshold for LRAMVA (2015) *	13,779,046.24	15,155,598.00	29,558,292.55	29,558,292.55	15,234,570.00	103,285,799.33
Manual Adjustment for 2015 Load Forecast (billed basis)	-	-	14,779,146.27	29,558,292.55	7,617,285.00	51,954,723.82
Proposed Loss Factor (TLF)	3.41%	Format: X.XX%				
Manual Adjustment for 2015 Load Forecast (system purchased basis)	-	-	15,283,115.16	30,566,230.32	7,877,034.42	53,726,379.90
Manual adjustment uses "gross" versus "net" (i.e. numbers multiplied by (1 + g). The Weight factor is also used calculate the impact of each year's program on the CDM adjustment to the 2014 load forecast.						

Notes:

* - For persistence of 2011 to 2014 program years in 2015, plus estimated 2015 program savings.

REVENUE FORECAST OVERVIEW

Table 33 below provides a summary of forecasted distribution revenue by rate class for the 2014 Bridge Year.

Table 33: Forecasted Distribution Revenues by Rate Class (2014)¹⁵

Rate Class	2014 Bridge Year	Rates	Total
Residential			
Customers	137,303	10.51	17,316,664
kWh	1,249,454,159	0.0147	18,366,976
General Service < 50 kW			
Customers	8,758	24.39	2,563,204
kWh	338,649,623	0.0160	5,418,394
Unmetered Scattered Load			
Connections	1,519	0.96	17,497
kWh	5,818,253	0.0176	102,401
General Service > 50 kW			
Customers	1,501	121.18	2,182,745
kW	2,988,434	2.5039	7,482,740
kW Tx Credit	242,064	(0.7048)	(170,607)
General Service > 700 kW			
Customers	115	1,196.32	1,649,360
kW	1,965,158	3.4411	6,762,305
kW Tx Credit	1,583,115	(0.8758)	(1,386,492)
Large Use			
Customers	6	4,549.67	327,576
kW	718,200	2.2038	1,582,769
SLR			
Lights	44,887	0.84	452,462
kW	97,585	8.7506	853,931
Embedded Distributor			
Customers	1	0.00	-
kW	-	0.0634	-
Distributed Generation			
Customers	43	5.40	2,789
kWh	113,715	0.0160	1,819
Energy From Waste Generation			
Customers	1	0.00	-
kW	-	0.0000	-
Back-up/Standby Power			
Customers	1	0.00	-
kW	54,580	1.5573	84,997
Total			
Fixed Revenue			24,512,298
Volumetric Revenue			40,656,334
Transformer Allowance			(1,557,099)
Total Revenue			63,611,532

¹⁵ For more details on the calculations presented in Table 33 refer to the *Summary Tab* in HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1* and *Appendix 2 "2014 HOBNI Current Tariff and Rates"* in *Exhibit 8 Tab 9 Schedule 1*

Table 34 below provides a summary of forecasted distribution revenue by rate class for the 2015 Test Year.

Table 34: Forecasted Distribution Revenues by Rate Class (2015)¹⁶

Rate Class	2015 Test Year	Rates	Total
Residential			
Customers	140,979	12.93	21,874,330
kWh	1,308,264,983	0.0137	17,923,230
General Service < 50 kW			
Customers	8,989	30.21	3,258,859
kWh	354,668,870	0.0138	4,894,430
kW Tx Credit	370,521	-0.0033	(1,223)
Unmetered Scattered Load			
Connections	1,562	3.06	57,346
kWh	5,931,733	0.0145	86,010
General Service > 50 kW			
Customers	1,491	183.15	3,276,314
kW	2,979,826	2.6224	7,814,295
kW Tx Credit	241,367	(0.7019)	(169,415)
General Service > 700 kW			
Customers	115	1,435.10	1,973,839
kW	1,969,146	3.0427	5,991,522
kW Tx Credit	1,586,328	(0.8737)	(1,385,975)
Large Use			
Customers	6	9,212.02	663,265
kW	719,987	2.15	1,547,612
SLR			
Lights	22,335	3.39	908,570
kW	100,672	7.3844	743,402
Embedded Distributor			
Customers	1	4,106.75	49,281
kW	-	0.0000	-
Distributed Generation			
Customers	68	21.03	17,055
kWh	178,816	0.1624	29,040
Energy From Waste Generation			
Customers	1	62.25	747
kW	-	0.0000	-
Back-up/Standby Power			
Customers	1	0.00	-
kW	54,580	1.6605	90,630
Total			
Fixed Revenue			32,079,607
Volumetric Revenue			39,120,171
Transformer Allowance			(1,556,613)
Total Revenue			69,643,165

¹⁶ For more details on the calculations presented in Table 34 refer to the *Summary Tab* in HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1* and *Appendix 3 "2015 HOBNI Proposed Tariff and Rates"* in *Exhibit 8 Tab 9 Schedule 1*

EXHIBIT 3: Operating Revenue

TAB 2 (of 4)

Accuracy of Load Forecast and Variance Analysis

OVERVIEW

This section of the Exhibit provides detail schedules and variance analyses of sales volumes, customer/connection counts and revenues as a whole as well as by individual rate classes. The first part outlines historical as well as weather normalized values for 2009 to 2015 while the second part analyses customer/connection usage between 2009 and 2015 Test Year. The third and final part looks at variance analysis. All parts take into consideration the 2011 Board Approved values.

As indicated in **Table 1** of *Exhibit 3 Tab 1 Schedule 1*, overall, HOBNI is forecasting a volume (kWh) increase of 122,519,302 or 3.18% in the 2015 Test Year compared to the 2011 Board Approved amount. In addition, HOBNI's customer count is forecasted to increase by 17,169 or 12.76% in the 2015 Test Year over the 2011 Board Approved count. Connections are projected to grow by 1,377 or 6.11% over the same period.

SCHEDULES OF VOLUMES, CUSTOMERS/CONNECTIONS AND REVENUES

Historical and Forecasted Volumes, Customer/Connection Counts

Table 1 provides a summary of the historical actual and the 2011 Board Approved kWh, kW, customer and connection counts by rate classification. For the 2014 Bridge and the 2015 Test Years, the billed kW forecast amounts were calculated based on the historical relationship between kWh and kW for the customer billed based on demand and the customer and connection counts were average for each year. This data is displayed in **Table 2**. **Table 2** also shows a comparison of the 2011 Board Approved and the 2011 actual kWh, kW and customer and connection counts.

1

Table 1: Historical Volumes and Customers/Connections

Rate Class	2009 Actual	2010 Actual	2011 Board Approved	2011 Actual	2012 Actual	2013 Actual
Residential						
Customers	121,041	123,013	124,916	126,317	129,699	133,723
kWh	1,088,557,819	1,171,315,280	1,123,427,772	1,190,237,359	1,212,040,627	1,198,023,626
General Service < 50 kW						
Customers	7,529	7,752	7,893	8,080	8,328	8,532
kWh	283,991,997	291,782,860	291,481,574	309,962,282	315,917,674	323,299,858
Unmetered Scattered Load						
Customers	66	62	62	61	61	59
Connections	1,280	1,293	1,300	1,369	1,424	1,477
kWh	5,104,985	5,197,576	4,969,698	5,450,025	5,562,245	5,706,945
General Service > 50 kW						
Customers	1,554	1,539	1,552	1,537	1,525	1,511
kWh	1,081,007,720	1,088,985,441	1,131,611,317	1,100,145,274	1,101,990,613	1,084,942,787
kW	3,049,119	3,049,813	3,101,358	3,051,053	3,074,186	3,051,058
General Service > 700 kW						
Customers	114	114	106	112	112	115
kWh	788,185,444	839,914,785	843,484,098	801,310,497	807,792,313	812,965,292
kW	1,839,970	1,916,781	1,904,929	1,894,300	1,928,037	1,980,476
Large Use					21,792,407	
Customers	6	6	6	6	6	6
kWh	342,523,390	363,198,797	391,244,134	394,428,511	402,243,669	380,451,262
kW	696,851	684,290	711,951	716,743	736,260	701,011
Street Lights						
Customers	2	2	2	2	2	2
Lights	38,829	40,459	42,158	41,470	42,363	43,516
Connections	20,465	20,691	21,219	21,003	21,359	21,727
kWh	27,343,426	28,336,125	29,651,502	29,752,537	30,597,265	31,295,952
kW	81,921	84,893	88,254	90,235	92,995	95,410
Embedded Distributor						
Customers	1	1	1	1	1	1
kWh	15,195,322	19,041,917	34,245,664	33,946,646	33,806,316	40,323,932
kW	34,990	39,259	84,901	84,159	76,798	94,985
Distributed Generation						
Customers	-	-	-	1	6	19
kWh	-	-	-	1,718	14,366	49,101
Energy From Waste Generation						
Customers	1	1	1	1	1	1
kWh	-	-	-	-	-	-
kW	-	-	-	-	-	-
Back-up/Standby Power						
Customers	-	-	-	-	-	1
kWh	-	-	-	-	-	-
kW	-	-	-	-	-	40,935
Total						
Customers	130,313	132,489	134,539	136,119	139,740	143,970
Connections	21,745	21,984	22,519	22,372	22,784	23,204
kWh	3,631,910,103	3,807,772,782	3,850,115,760	3,865,234,849	3,909,965,088	3,877,058,755
kW from applicable classes	5,702,851	5,775,036	5,891,393	5,836,490	5,908,276	5,963,875

2
3

Table 2 provides a summary of the weather normalized kWh and kW as well as the customer and connection counts by rate classification for the historical, 2014 Bridge and 2015 Test Years. The normalized kWh amounts for the historical years were provided by Hydro One Networks. Hydro One Brampton calculated the normalized kW for the historical years by first deriving the historical kW to kWh ratio then multiplied these ratios by the normalized kWh data provided by Hydro One Networks. For the 2014 Bridge and the 2015 Test Years, the kW amounts were calculated based on historical relationship between kWh and kW.

Table 2: Weather Normalized Actual and Forecasted Volumes and Customers/Connections

Rate Class	2009 Weather Normalized	2010 Weather Normalized	2011 Board Approved	2011 Weather Normalized	2012 Weather Normalized	2013 Weather Normalized	2014 Bridge Year	2015 Test Year
Residential								
Customers	121,041	123,013	124,916	126,317	129,699	133,723	137,303	140,979
kWh	1,115,888,474	1,177,664,858	1,123,427,772	1,192,668,901	1,220,835,179	1,205,670,409	1,249,454,159	1,308,264,983
General Service < 50 kW								
Customers	7,529	7,752	7,893	8,080	8,328	8,532	8,758	8,989
kWh	290,164,103	293,428,537	291,481,574	310,673,553	318,669,115	324,486,114	338,649,623	354,668,870
Unmetered Scattered Load								
Customers	66	62	62	61	61	59	57	56
Connections	1,280	1,293	1,300	1,369	1,424	1,477	1,519	1,562
kWh	5,162,842	5,256,468	4,969,698	5,509,573	5,621,483	5,767,707	5,818,253	5,931,733
General Service > 50 kW								
Customers	1,554	1,539	1,552	1,537	1,525	1,511	1,501	1,491
kWh	1,090,747,173	1,097,960,912	1,131,611,317	1,108,606,699	1,112,266,841	1,089,802,508	1,067,572,851	1,064,497,599
kW	3,076,590	3,074,950	3,101,358	3,074,519	3,102,853	3,064,724	2,988,434	2,979,826
General Service > 700 kW								
Customers	114	114	106	112	112	115	115	115
kWh	801,126,399	853,839,633	843,484,098	813,890,185	815,930,763	817,925,218	804,411,590	806,154,180
kW	1,870,180	1,948,559	1,904,929	1,924,038	1,947,462	1,992,559	1,965,158	1,969,146
Large Use								
Customers	6	6	6	6	6	6	6	6
kWh	344,971,561	365,551,177	391,244,134	396,857,107	406,313,173	382,721,457	381,669,818	382,619,513
kW	701,832	688,722	711,951	721,156	743,709	705,194	718,200	719,987
SLR								
Customers	2	2	2	2	2	2	2	2
Lights	38,829	40,459	42,158	41,470	42,363	43,516	44,887	46,301
Connections	20,465	20,691	21,219	21,003	21,359	21,727	22,029	22,335
kWh	27,653,325	28,657,273	29,651,502	30,077,898	30,923,126	31,629,254	32,285,800	33,306,955
kW	82,849	85,855	88,254	91,222	93,985	96,426	97,585	100,672
Embedded Distributor								
Customers	1	1	1	1	1	1	1	1
kWh	15,461,213	19,238,567	34,245,664	34,245,664	34,179,598	40,610,366	-	17,012,414
kW	35,602	39,665	84,901	84,901	77,646	95,660	-	40,073
Distributed Generation								
Customers	-	-	-	1	6	19	43	68
kWh	-	-	-	1,736	14,519	49,624	113,715	178,816
Energy From Waste Generation								
Customers	1	1	1	1	1	1	1	1
kWh	-	-	-	-	-	-	-	-
kW	-	-	-	-	-	-	-	-
Back-up/Standby Power								
Customers	-	-	-	-	-	1	1	1
kWh	-	-	-	-	-	-	-	-
kW	-	-	-	-	-	40,935	54,580	54,580
Total								
Customers	130,313	132,489	134,539	136,119	139,740	143,970	147,788	151,708
Connections	21,745	21,984	22,519	22,372	22,784	23,204	23,548	23,896
kWh	3,691,175,091	3,841,597,426	3,850,115,760	3,892,531,317	3,944,753,798	3,898,662,657	3,879,975,810	3,972,635,063
kW from applicable classes	5,767,053	5,837,751	5,891,393	5,895,836	5,965,656	5,995,498	5,823,957	5,864,284

Historical and Forecasted Distribution Revenues

Distribution revenues by class per year were calculated by multiplying the billing determinants (customers/ connections, kWh, kW) by the Board Approved rates between 2009 and 2014 and HOBNI's 2015 proposed rates. Distribution revenues were then adjusted to reflect transformer allowance credits given to customers in the General Service < 50 kW, the General Service > 50 kW and the General Service > 700 kW. Transformer allowance credit for the General Service < 50 kW was applied only in the 2015 Test Year. The billing determinants can be found in the *Summary and Summary (Weather Normalized) Tabs* as well as the *Summary of Rates Tab* in the HOBNI Multivariate Regression Model, found in *Exhibit 3 Tab 4 Schedule 1*.

During the 2011 Cost of Service proceeding, Hydro One Brampton requested and received approval from the OEB to adjust its rates on a calendar basis effective January 1st of each year. Prior to this approval, HOBNI's rate adjustments were done on May 1st each year. The distribution revenues calculated for 2009 and 2010 were based on the rate adjustments effective May 1st in each year. These rates were applied to the entire year in question, that is no proration was done.

Table 3 provides a summary of the actual distribution revenues by rate classification for 2009 to 2013.

Table 3: Historical Actual Distribution Revenues by Class

Description	2009 Actual	2010 Actual	2011 OEB Approved	2011 Actual	2012 Actual	2013 Actual
Distribution Revenue:						
Residential	32,588,426	33,685,467	30,567,846	31,680,420	32,631,455	33,792,507
General Service < 50 kW	6,994,135	7,079,210	6,185,903	6,511,951	6,702,091	7,369,437
General Service > 50 kW	8,884,916	8,728,574	9,317,740	9,186,206	9,289,584	9,499,221
Intermediate	8,058,687	8,133,398	6,917,001	6,948,392	6,591,906	7,139,452
Large Use (> 5000 kW)	1,987,502	1,915,449	1,832,459	1,842,662	1,898,910	1,846,631
Street Lighting	183,904	187,155	669,977	675,800	1,209,234	1,256,790
Unmetered Scattered Load	108,693	107,508	99,494	108,472	111,734	116,141
Embedded Distributor	2,141	2,403	5,196	5,151	4,738	5,937
Distributed Generation Class	-	-	-	118	613	1,991
Energy from Waste Generation	-	-	-	-	-	-
Backup/Standby Power	-	-	-	-	-	62,868
Total	58,808,404	59,839,164	55,595,618	56,959,173	58,440,268	61,090,973

Table 4 provides a summary of the weather normalized actual distribution revenues by rate classification for the historical years 2009 to 2013, the 2014 Bridge Year and 2015 Test Year.

Table 4: Weather Normalized Actual and Forecasted Distribution Revenues by Class

Description	2009 Weather Normalized	2010 Weather Normalized	2011 OEB Approved	2011 Weather Normalized	2012 Weather Normalized	2013 Weather Normalized	2014 Bridge Year	2015 Test Year
Distribution Revenue:								
Residential	33,017,517	33,783,250	30,567,846	31,714,948	32,757,217	33,903,385	35,683,641	39,797,560
General Service < 50 kW	7,105,850	7,108,503	6,185,903	6,522,976	6,752,415	7,388,180	7,981,598	8,152,067
General Service > 50 kW	8,947,595	8,785,039	9,317,740	9,241,612	9,357,721	9,532,320	9,494,879	10,921,194
Intermediate	8,158,768	8,236,252	6,917,001	6,839,938	6,341,153	6,816,407	7,025,173	6,579,386
Large Use (> 5000 kW)	1,999,233	1,925,653	1,832,459	1,852,059	1,914,895	1,855,722	1,910,345	2,210,877
Street Lighting	185,989	189,276	669,977	680,633	1,217,673	1,265,559	1,306,393	1,651,972
Unmetered Scattered Load	109,740	108,557	99,494	109,490	112,753	117,198	119,898	143,356
Embedded Distributor	2,179	2,427	5,196	5,196	4,791	5,979	-	49,281
Distributed Generation Class	-	-	-	119	615	1,999	4,609	46,095
Energy from Waste Generation	-	-	-	-	-	-	-	747
Backup/Standby Power	-	-	-	-	-	62,868	84,997	90,630
Total	59,526,870	60,138,956	55,595,618	56,966,971	58,459,234	60,949,616	63,611,532	69,643,165

AVERAGE CUSTOMER AND CONNECTION USAGE ANALYSIS

Table 5 provides a summary of the weather normalized average annual kWh usage by rate class for 2009 to 2013 as well as the 2014 Bridge Year and the 2015 Test Year.

In general, all rate classes with the exception of the Street Lights, Embedded Distributor and Distributed Generation, have shown decline in average annual consumption between 2011 and 2013. This decline may be attributed to the government's effort to reduce overall consumption through initiatives such as CDM as well as the introduction of smart meters which facilitates time of use pricing. A consumer will respond positively to price changes during peak periods by reducing consumption.

The average annual consumption for Residential customers has decreased by 4.51% from 9,442 kWh in 2011 to 9,016 kWh in 2013. The average annual consumption for the General Service < 50 kW rate class has decreased by 1.08% or 416 kWh per customer.

The General Service > 50 kW, General Service > 700 kW and Larger User classes also experienced decline in average annual consumption between 2011 and 2013; -0.03%, -2.34% and -3.56%, respectively.

However, Street Lights, the Embedded Distributor and the Distributed Generation classes all experienced increase in average annual consumption between 2011 and 2013. Street Lights increased by 1.65% meanwhile the Embedded Distributor and the Distributed Generation saw increases of 18.59% and 115.97%, respectively.

Table 5: Weather Normalized Average Annual Historical & Forecasted kWh Usage¹⁷

Rate Class	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Bridge Year	2015 Test Year
Residential							
Average kWh Usage	9,219	9,574	9,442	9,413	9,016	9,100	9,280
kWh Change Y/Y		3.84%	-1.37%	-0.31%	-4.21%	0.93%	1.98%
General Service < 50 kW							
Average kWh Usage	38,541	37,854	38,448	38,267	38,032	38,669	39,454
kWh Change Y/Y		-1.78%	1.57%	-0.47%	-0.61%	1.67%	2.03%
Unmetered Scattered Load							
Average kWh Usage	4,033	4,065	4,025	3,947	3,905	3,831	3,798
kWh Change Y/Y		0.79%	-0.99%	-1.93%	-1.09%	-1.89%	-0.85%
General Service > 50 kW							
Average kWh Usage	702,047	713,425	721,280	729,156	721,047	711,225	714,081
kWh Change Y/Y		1.62%	1.10%	1.09%	-1.11%	-1.36%	0.40%
General Service > 700 kW							
Average kWh Usage	7,032,565	7,489,821	7,272,288	7,317,765	7,102,100	7,001,507	7,033,497
kWh Change Y/Y		6.50%	-2.90%	0.63%	-2.95%	-1.42%	0.46%
Large Use							
Average kWh Usage	57,495,260	60,925,196	66,142,851	67,718,862	63,786,910	63,611,636	63,769,919
kWh Change Y/Y		5.97%	8.56%	2.38%	-5.81%	-0.27%	0.25%
Street Lights							
Average kWh Usage	1,351	1,385	1,432	1,448	1,456	1,466	1,491
Connections Change Y/Y		2.50%	3.40%	1.10%	0.55%	0.68%	1.75%
Embedded Distributor							
Average kWh Usage	15,461,213	19,238,567	34,245,664	34,179,598	40,610,366	0	17,012,414
kWh Change Y/Y		24.43%	78.01%	-0.19%	18.81%	-100.00%	0.00%
Distributed Generation							
Average kWh Usage	-	-	1,225	2,420	2,647	2,642	2,646
kWh Change Y/Y		0.00%	0.00%	97.47%	9.37%	-0.17%	0.15%
Energy From Waste Generation							
Average kWh Usage	-	-	-	-	-	-	-
kWh Change Y/Y		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Back-up/Standby Power							
Average kWh Usage	-	-	-	-	-	-	-
kWh Change Y/Y		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total							
Average kWh Usage	80,744,230	88,419,888	108,436,655	110,000,876	112,275,478	71,380,075	88,586,579
kWh Change Y/Y		9.51%	22.64%	1.44%	2.07%	-36.42%	24.11%

Comparison of 2011 Board Approved vs. 2011 Actual Average Annual kWh Usage

Table 6 below provides a summary of the variances between Hydro One Brampton's 2011 Actual and the 2011 Board Approved average annual kWh usage by rate class. Average consumption in 2011 was higher than 2011 Board Approved amounts for the Residential, General Service < 50 kW, the Unmetered Scattered Load, the Large User Street Lights and the Distributed Generation classes in 2011 compared 2011 Board Approved average annual kWh usage. However, average consumption in 2011 was lower than 2011 Board Approved amounts

¹⁷ For more details on the results presented in Table 3 refer to the *Summary (Weather Normalized) Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

for the General Service > 50 kW, General Service > 700 kW, and the Embedded Generator classes. The General Service > 700 kW class experienced the biggest reduction on average consumption dropping just over 10% compared to the 2011 Board Approved average consumption. HOBNI attributes the decline in consumption in the commercial classes to the Government of Ontario CDM program as well as reduction in the number of customers in the General Service > 50 kW due to economic factors.

Table 6: 2011 Board Approved vs. 2011 Actual Average Annual kWh Usage¹⁸

Rate Class	2011 Board Approved	2011 Actual	Change	% Change
Residential				
Average kWh Usage	8,993	9,423	429	4.77%
General Service < 50 kW				
Average kWh Usage	36,929	38,360	1,431	3.87%
Unmetered Scattered Load				
Average kWh Usage	3,822	3,982	160	4.18%
General Service > 50 kW				
Average kWh Usage	729,031	715,774	(13,256)	-1.82%
General Service > 700 kW				
Average kWh Usage	7,960,906	7,159,885	(801,020)	-10.06%
Large Use				
Average kWh Usage	65,207,356	65,738,085	530,730	0.81%
Street Lights				
Average kWh Usage	1,397	1,417	19	1.37%
Embedded Distributor				
Average kWh Usage	34,245,664	33,946,646	(299,018)	-0.87%
Distributed Generation				
Average kWh Usage	-	1,213	1,213	0.00%
Energy From Waste Generation				
Average kWh Usage	-	-	-	0.00%
Back-up/Standby Power				
Average kWh Usage	-	-	-	0.00%

¹⁸ For more details on the results presented in Table 6 refer to the *Summary Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

Comparison of 2011 Board Approved vs. 2014 Bridge Year Average Annual kWh Usage

Table 7 below provides a summary of the variances between Hydro One Brampton's 2014 Bridge Year and the 2011 Board Approved average annual kWh usage by rate class. Average consumption is expected to be higher for the Residential, General Service < 50 kW, the Unmetered Scattered Load, Street Lights and the Distributed Generation classes in 2011 compared 2011 Board Approved average annual kWh usage. However, HOBNI is forecasting lower average consumption for the General Service > 50 kW, General Service > 700 kW, Large User and the Embedded Generator classes. The Embedded Generator class is expected to experience the biggest decline in average consumption dropping 100% compared to the 2011 Board Approved average annual consumption. The reason for this decline is that HOBNI is forecasting zero consumption for the Embedded Generator in 2014 based on information from its HOBNI's Engineering department. The other rate class that is expected to experience a significant decline in 2014 over the 2011 Board Approved average annual consumption is the General Service > 700 kW class. Average annual kWh consumption is expected to decline just over 12% compared to the 2011 Board Approved average consumption. HOBNI attributes the decline in the commercial classes to the Government of Ontario CDM program and the continued decline in the General Service > 50 kW due to economic factors.

Table 7: 2011 Board Approved vs. 2014 Bridge Year Average Annual kWh Usage¹⁹

Rate Class	2011 Board Approved	2014 Bridge Year	Change	% Change
Residential				
Average kWh Usage	8,993	9,100	107	1.18%
General Service < 50 kW				
Average kWh Usage	36,929	38,669	1,739	4.71%
Unmetered Scattered Load				
Average kWh Usage	3,822	3,831	9	0.24%
General Service > 50 kW				
Average kWh Usage	729,031	711,225	(17,806)	-2.44%
General Service > 700 kW				
Average kWh Usage	7,960,906	7,001,507	(959,399)	-12.05%
Large Use				
Average kWh Usage	65,207,356	63,611,636	(1,595,719)	-2.45%
Street Lights				
Average kWh Usage	1,397	1,466	68	4.88%
Embedded Distributor				
Average kWh Usage	34,245,664	-	(34,245,664)	-100.00%
Distributed Generation				
Average kWh Usage	-	2,642	2,642	0.00%
Energy From Waste Generation				
Average kWh Usage	-	-	-	0.00%
Back-up/Standby Power				
Average kWh Usage	-	-	-	0.00%

Comparison of 2011 Board Approved vs. 2015 Test Year Average Annual kWh Usage

Table 8 below provides a summary of the variances between Hydro One Brampton's 2015 Test Year and the 2011 Board Approved average annual kWh usage by rate class. Average consumption is expected to be higher for the Residential, General Service < 50 kW, Street Lights and the Distributed Generation classes in 2015 compared 2011 Board Approved average annual kWh usage. However, HOBNI is forecasting a decline in average consumption for the General Service < 50 kW Unmetered Scattered Load, General Service > 50 kW, General

¹⁹ For more details on the results presented in Table 7 refer to the *Summary (Weather Normalized) Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

Service > 700 kW, Large User and the Embedded Generator classes in 2015 compared 2011 Board Approved average annual kWh usage. The Embedded Generator class is expected to experience the biggest decline in average consumption dropping just over 50% compared to the 2011 Board Approved average annual consumption. The reason for this decline is that the Embedded Generator is expected to purchase less kWh from HOBNI in the 2015 Test Year. The General Service > 700 kW class is also expected to experience significant decline in 2015 compared to the 2011 Board Approved average consumption. The decline is forecasted to be approximately 11.65%. HOBNI attributes the decline in the commercial classes to the Government of Ontario Conversation and Demand Management (CDM) program.

Table 8: 2011 Board Approved vs. 2015 Test Year Average Annual kWh Usage²⁰

Rate Class	2011 Board Approved	2015 Test Year	Change	% Change
Residential				
Average kWh Usage	8,993	9,280	286	3.18%
General Service < 50 kW				
Average kWh Usage	36,929	39,454	2,525	6.84%
Unmetered Scattered Load				
Average kWh Usage	3,822	3,798	(23)	-0.61%
General Service > 50 kW				
Average kWh Usage	729,031	714,081	(14,950)	-2.05%
General Service > 700 kW				
Average kWh Usage	7,960,906	7,033,497	(927,409)	-11.65%
Large Use				
Average kWh Usage	65,207,356	63,769,919	(1,437,437)	-2.20%
Street Lights				
Average kWh Usage	1,397	1,491	94	6.72%
Embedded Distributor				
Average kWh Usage	34,245,664	17,012,414	(17,233,250)	-50.32%
Distributed Generation				
Average kWh Usage	-	2,646	2,646	0.00%
Energy From Waste Generation				
Average kWh Usage	-	-	-	0.00%
Back-up/Standby Power				
Average kWh Usage	-	-	-	0.00%

²⁰ For more details on the results presented in Table 8 refer to the *Summary (Weather Normalized) Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

Comparison of 2014 Bridge Year vs. 2015 Test Year Average Annual kWh Usage

Table 9 below provides a summary of the variances between Hydro One Brampton's 2015 Test Year and the 2014 Bridge Year average annual kWh usage by rate class. HOBNI is forecasting increases in the annual average consumption for all rate classes with the exception of the Unmetered Scattered class, Energy from Waste Generation and Back-up/Standby. Unmetered Scattered class is expected to decline by approximately 0.85%.

Table 9: 2014 Bridge Year vs. 2015 Test Year Average Annual kWh Usage

Rate Class	2014 Bridge Year	2015 Test Year	Change	% Change
Residential				
Average kWh Usage	9,100	9,280	180	1.98%
General Service < 50 kW				
Average kWh Usage	38,669	39,454	785	2.03%
Unmetered Scattered Load				
Average kWh Usage	3,831	3,798	(32)	-0.85%
General Service > 50 kW				
Average kWh Usage	711,225	714,081	2,856	0.40%
General Service > 700 kW				
Average kWh Usage	7,001,507	7,033,497	31,990	0.46%
Large Use				
Average kWh Usage	63,611,636	63,769,919	158,283	0.25%
Street Lights				
Average kWh Usage	1,466	1,491	26	1.75%
Embedded Distributor				
Average kWh Usage	-	17,012,414	17,012,414	0.00%
Distributed Generation				
Average kWh Usage	2,642	2,646	4	0.15%
Energy From Waste Generation				
Average kWh Usage	-	-	-	0.00%
Back-up/Standby Power				
Average kWh Usage	-	-	-	0.00%

VARIANCE ANALYSIS

Customers and Connections Variance Analysis

Table 10 below provides the variances for customer and connection counts between 2011 and 2015 Test Year. Customer numbers are based on the averages for each year.

Total Customer and Connection Counts Variance Analysis

Overall, Hydro One Brampton is forecasting an increase in the total number of customers, excluding connections, of 17,169 or 12.76% more customers in the 2015 Test Year compared to the 2011 Board Approved customer count. This represents an increase of 7,739 customers between the 2013 actual and the 2015 Test Year. Connections are forecasted to grow by 1,377 or 6.11% in the 2015 Test Year compared to the 2011 Board Approved. In 2011, the actual number of customers increased by 1,579 or 1.17% compared to the 2011 Board Approved. During the same period, the number of connections decreased by 147 or 0.65%.

In 2012, the number of customers increased 2.66% over to the 2011 actual and the number of connections increased by 411. Meanwhile, customer growth in 2013 compared to 2012 was 3.03% or 4,230. Connections increased by 1.85% during the same period. In 2014 and 2015, HOBNI is forecasting customer and connection growth of 2.65% and 1.48%, respectively, per year. Hydro One Brampton submits that these growth rates are reasonable and consistent with past trends.

The growth in total number of customers and connections can be attributed to the overall growth in the City of Brampton.

Customer and Connection Counts Variance Analysis by Rate Class

Residential customer count is projected to increase by 16,063 or 12.86% in the 2015 Test Year compared to the 2011 Board Approved customer count. The number of Residential customers is forecasted to increase by 3,580 in 2014 over the 2013 actual count and 3,676 in 2015 over the 2014 projected count, a forecasted annual increase of 2.68%. This forecast is based on the average growth rate over the past six years (2008 to 2013) for residential customers.

1 General Service < 50 kW customer count is forecasted to increase by 1,097 or 13.89% in the
2 2015 Test Year compared to the 2011 Board Approved customer count. HOBNI expects the
3 growth in this class to increase by 458 customers between 2013 and 2015 Test Year. This
4 represents an annual increase of 2.65% per year which is consistent with the average growth
5 rate over the past six years.

6 Unmetered Scattered Load connection count is projected to increase by 261 or 20.09% in the
7 2015 Test Year compared to the 2011 Board Approved connection count. HOBNI is forecasting
8 growth of approximately 2.82% per year in 2014 and 2015.

9 The number of customers in the General Service > 50 kW class is forecasted to decline by 61 or
10 3.96% in the 2015 Test Year compared to the 2011 Board Approved count. In fact, the number
11 of customers in this class has decline every year since 2010 and Hydro One Brampton expects
12 the current trend to continue. As such, Hydro One Brampton is forecasting a decline of 10
13 customers or 0.69% per year between 2013 and 2015.

14 The number of customers in the General Service > 700 kW class is forecasted to increase by
15 nine in the 2015 Test Year over the 2011 Board Approved count. However, HOBNI does not
16 anticipate any growth in 2014 over 2013 or 2015 over 2014. The six year trend for this customer
17 class shows a flat growth rate and therefore HOBNI submits that the forecasted number of
18 customers in 2014 and 2015 should remain at the 2013 level.

19 The number of customers in the Large User class has remained constant at six since 2008.
20 Hydro One Brampton does not expect this trend to change in 2014 and 2015 and submits that
21 the forecast of six customers in 2014 and 2015 is reasonable.

22 Street Light connections are projected to increase 1,116 or 5.26% in the 2015 Test Year
23 compared to the 2011 Board Approved connection count. HOBNI is forecasting an increase of
24 1.39% per year in 2014 and 2015. This projected growth is consistent with the growth in the
25 number of street light connections over the past six years. As the City of Brampton expands, the
26 number of connections is expected to increase.

27 Customer counts for the Embedded Distributor, the Energy from Waste Generation and the
28 Back-up/Standby Power classes are expected to remain at the 2013 level during 2014 and
29 2015. However, the customer count is expected to increase by an average of 24 in 2014 and 25

1 in 2015 for the Distributed Generation class. Hydro One Brampton has seen significant growth in
2 this class since 2012.

3 **Table 10: Variance Analysis for Customer and Connection Counts - 2011 to 2015 Test Year²¹**

Rate Class	2011 Actual vs 2011 Board Approved	2012 vs 2011 Actual	2013 vs 2012 Actual	2014 Bridge vs 2013 Actual	2015 Test vs 2014 Bridge	2015 Test Year vs 2011 Board Approved
Residential						
Change in Customer Count	1,401	3,382	4,024	3,580	3,676	16,063
% Change in Customer Count	1.12%	2.68%	3.10%	2.68%	2.68%	12.86%
General Service < 50 kW						
Change in Customer Count	187	247	204	226	232	1,097
% Change in Customer Count	2.37%	3.06%	2.45%	2.65%	2.65%	13.89%
Unmetered Scattered Load						
Change in Customer Count	(1)	(1)	(2)	(2)	(1)	(6)
Change in Connection Count	68	55	53	42	43	261
% Change in Customer Count	-1.34%	-0.82%	-3.02%	-2.57%	-2.57%	-9.92%
% Change in Connection Count	5.26%	4.04%	3.73%	2.82%	2.82%	20.09%
General Service > 50 kW						
Change in Customer Count	(15)	(12)	(14)	(10)	(10)	(61)
% Change in Customer Count	-0.98%	-0.75%	-0.92%	-0.69%	-0.69%	-3.96%
General Service > 700 kW						
Change in Customer Count	6	(0)	4	(0)	(0)	9
Change in kW	5.63%	-0.37%	3.29%	-0.24%	-0.24%	7.56%
Large Use						
Change in Customer Count	-	-	-	-	-	-
% Change in Customer Count	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Street Lights						
Change in Customer Count	-	-	-	-	-	-
Change in Connection Count	(216)	356	368	302	306	1,116
% Change in Customer Count	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
% Change in Connection Count	-1.02%	1.70%	1.72%	1.39%	1.39%	5.26%
Embedded Distributor						
Change in Customer Count	-	-	-	-	-	-
% Change in Customer Count	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Distributed Generation						
Change in Customer Count	1	5	13	24	25	68
% Change in Customer Count	0.00%	323.53%	212.50%	129.56%	57.02%	0.00%
Energy From Waste Generation						
Change in Customer Count	-	-	-	-	-	-
% Change in Customer Count	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Back-up/Standby Power						
Change in Customer Count	-	-	1	-	-	1
% Change in Customer Count	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total						
Change in Customer Count	1,579	3,621	4,230	3,818	3,920	17,169
Change in Connection Count	(147)	411	421	343	349	1,377
% Change in Customer Count	1.17%	2.66%	3.03%	2.65%	2.65%	12.76%
% Change in Connection Count	-0.65%	1.84%	1.85%	1.48%	1.48%	6.11%

²¹ For more details on the results presented in Table 10 refer to the *Summary Tab* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

Volume Variances Analysis

Historical Board Approved vs. Historical Actual

As shown in **Table 11** below, the historical billed consumption of 3,865,234,849 kWh for 2011 was 0.39% higher than the Board Approved kWh of 3,850,115,760 while the 2011 weather normalized volume was 1.10% higher than the Board Approved kWh. The Board actual approval was 3,815,870,096 kWh. However HOBNI added 34,245,664 kWh related to the Embedded Distributor for comparative purposes.

Table 11: Board Approved vs. Actual Billed Volumes

Year	2011 Board Approved	2011 Actual	Weather Normalized 2011 Actual
kWh	3,850,115,760	3,865,234,849	3,892,531,317
kWh Change Y/Y		15,119,089	42,415,556
kWh % Change Y/Y		0.39%	1.10%

Year-Over-Year Weather Normalized Historical and Forecasted Volume Changes

Table 12 provides the year over year variances for historical weather normalized billed volumes. The 2009 global recession had a negative impact on the Ontario economy and during this period, kWh consumption declined as businesses reduced operations and residential consumers conserved. However, in 2010 the economy began its path to recovery and billed kWh increased by 4.08% between 2009 and 2010.

Between 2010 and 2012 kWh consumption increased an average of 1.33% per year. However, in 2013, there was a decline in kWh consumption of 1.17% compared to 2012. This may be as a result of the warmer summer experienced in 2012 compared to 2013. During warmer periods, consumers are expected to operate their air conditioning systems longer to remain cool while indoors.

In the 2014 Bridge Year, Hydro One Brampton is forecasting a decline in weather normalized kWh consumption compared to the 2013 actual by 0.48%. This is mainly attributable to the projected decline in consumption in the General Service > 50 kW, General Service > 700 kW, the Large User and the Embedded Generator classes. The forecasted decline in consumption

for the General Service > 50 kW is consistent with the trend over the past 5 years. The class has seen a significant reduction in the number of customers from 2010 onward and HOBNI expects this trend to continue in 2014 and 2015. The kWh for the Embedded Distributor class is expected to be zero in 2014.

HOBNI is forecasting an increase of 2.39% in KWh consumption in the 2015 Test Year over the 2014 Bridge Year. Consumption is expected to increase in all classes with the exception of the General Service > 50 kW where consumption is forecasted to decline by 0.29%.

Table 12: Weather Normalized Year-Over-Year Volume Changes²²

Year	Historical Weather Normalized kWh	Year over Year Variance
2009	3,691,175,091	
2010	3,841,597,426	4.08%
2011	3,892,531,317	1.33%
2012	3,944,753,798	1.34%
2013	3,898,662,657	-1.17%
2014 Bridge Year	3,879,975,810	-0.48%
2015 Test Year	3,972,635,063	2.39%

Year-Over-Year Weather Normalized Historical and Forecasted Volume Variance Analysis by Rate Class

Table 13 below provides by class specific variance analysis of volume between 2011 and 2015 Test Year.

²² For more details on the results presented in Tables 11 & 12 refer to the *Summary and Summary (Weather Normalized) Tabs* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

1

Table 13: Historical and Forecasted Volume Variance Analysis²³

Rate Class	2011 Actual vs 2011 Board Approved	2011 Weather Normalized vs 2011 Board Approved	Weather Normalized - 2012 vs 2011	Weather Normalized - 2013 vs 2012	Weather Normalized - 2014 Bridge Year vs 2013	2015 Test Year vs 2014 Bridge Year	2015 Test Year vs 2011 Board Approved
Residential							
Change in kWh	66,809,587	69,241,129	28,166,278	(15,164,771)	43,783,751	58,810,824	184,837,211
% Change in kWh	5.95%	6.16%	2.36%	-1.24%	3.63%	4.71%	16.45%
GS<50							
Change in kWh	18,480,708	19,191,979	7,995,562	5,816,999	14,163,508	16,019,247	63,187,296
% Change in kWh	6.34%	6.58%	2.57%	1.83%	4.36%	4.73%	21.68%
USL							
Change in kWh	480,327	539,874	111,910	146,224	50,546	113,479	962,035
% Change in Customer Count	9.67%	10.86%	2.03%	2.60%	0.88%	1.95%	19.36%
GS>50							
Change in kWh	(31,466,044)	(23,004,619)	3,660,143	(22,464,334)	(22,229,657)	(3,075,253)	(67,113,719)
Change in kW	(50,305)	(26,839)	28,334	(38,129)	(76,290)	(8,608)	(121,532)
% Change in kWh	-2.78%	-2.03%	0.33%	-2.02%	-2.04%	-0.29%	-5.93%
% Change in kW	-1.62%	-0.87%	0.92%	-1.23%	-2.49%	-0.29%	-3.92%
Intermediate							
Change in kWh	(42,173,601)	(29,593,913)	2,040,577	1,994,455	(13,513,628)	1,742,590	(37,329,918)
Change in kW	(10,629)	19,109	23,423	45,097	(27,401)	3,988	64,217
% Change in kWh	-5.00%	-3.51%	0.25%	0.24%	-1.65%	0.22%	-4.43%
% Change in kW	-0.56%	1.00%	1.22%	2.32%	-1.38%	0.20%	3.37%
Large Use							
Change in kWh	3,184,377	5,612,973	9,456,066	(23,591,716)	(1,051,639)	949,695	(8,624,620)
Change in kW	4,792	9,205	22,553	(38,515)	13,006	1,787	8,036
% Change in kWh	0.81%	1.43%	2.38%	-5.81%	-0.27%	0.25%	-2.20%
% Change in kW	0.67%	1.29%	3.13%	-5.18%	1.84%	0.25%	1.13%
SLR							
Change in kWh	101,035	426,396	845,228	706,128	656,546	1,021,155	3,655,452
Change in kW	1,981	2,968	2,764	2,441	1,159	3,086	12,418
% Change in kWh	0.34%	1.44%	2.81%	2.28%	2.08%	3.16%	12.33%
% Change in kW	2.24%	3.36%	3.03%	2.60%	1.20%	3.16%	14.07%
Embedded Distributor							
Change in kWh	(299,018)	-	(66,066)	6,430,767	(40,610,366)	17,012,414	(17,233,250)
Change in kW	(741)	-	(7,254)	18,013	(95,660)	40,073	(44,827)
% Change in kWh	-0.87%	0.00%	-0.19%	18.81%	-100.00%	0.00%	-50.32%
% Change in kW	-0.87%	0.00%	-8.54%	23.20%	-100.00%	0.00%	-52.80%
Distributed Generation							
Change in kWh	1,718	1,736	12,783	35,105	64,092	65,100	178,816
% Change in kWh	0.00%	0.00%	736.34%	241.78%	129.16%	57.25%	0.00%
Energy From Waste Generation							
Change in kWh	-	-	-	-	-	-	-
Change in kW	-	-	-	-	-	-	-
% Change in kWh	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
% Change in kW	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Back-up/Standby Power							
Change in kWh	-	-	-	-	-	-	-
Change in kW	-	-	-	40,935	13,645	-	54,580
% Change in kWh	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
% Change in kW	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%	0.00%
Total							
Change in kWh	15,119,089	42,415,556	52,222,482	(46,091,141)	(18,686,846)	92,659,252	122,519,302
Change in kW	(54,902)	4,443	69,819	29,842	(171,540)	40,327	(27,108)
% Change in kWh	0.39%	1.10%	1.34%	-1.17%	-0.48%	2.39%	3.18%
% Change in kW	-0.93%	0.08%	1.18%	0.50%	-2.86%	0.69%	-0.46%

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²³ For more details on the results presented in Tables 13 refer to the *Summary and Summary (Weather Normalized) Tabs* in the HOBNI Multivariate Regression Model in *Exhibit 3 Tab 4 Schedule 1*

Distribution Revenue Variance Analysis

HOBNI calculated distribution revenue for each rate class by multiplying the fixed charge by the average number of customers/connections in the year then add the total of the product of the variable component and the volumetric billing determinants (kWh or kW). Operating revenues also include the Smart Meter Incremental Rider (SMIRR) approved by the OEB in Hydro One Brampton's Final Smart Meter Disposition Application (EB-2012-0440) in April 2013. The SMIRR is applicable to the Residential, General Service < 50 kW and the General Service > 50 kW classes. Further, operating revenues were adjusted to reflect transformer allowance credits given to customers in the General Service < 50 kW, the General Service > 50 kW and the General Service > 700 kW. Transformer allowance credit for the General Service < 50 kW was applied only in the 2015 Test Year.

The billing determinants can be found in the *Summary* and *Summary (Weather Normalized) Tabs* as well as the *Summary of Rates Tab* in the HOBNI Multivariate Regression Model, found in *Exhibit 3 Tab 4 Schedule 1*.

Tables 14 and 15 below show OEB Approved 2011 Distribution Revenue of \$55,595,618. The actual OEB Approved 2011 distribution revenue was 55,553,649. However, due to rate rounding, HOBNI's 2011 throughput distribution revenue was \$36,773 higher. The approved amount excluded revenue from the Embedded Distributor class, however, for comparative purposes; HOBNI has included revenue from this class.

Comparison of 2011 Actual and 2011 Board Approved

Table 14 below provides a summary of the variances between Hydro One Brampton's 2011 Actual and the 2011 Board Approved distribution revenues by rate class. Actual revenues increased by \$1,363,555 or 2.45% compared to the 2011 Board Approved distribution revenue. The total increase in revenue was driven by growth in customer/connection counts as well as billed consumption.

Table 14: Distribution Revenue: 2011 Actual vs. 2011 Board Approved

Description	2011 OEB Approved	2011 Actual	Variance (\$)	Variance (%)
Distribution Revenue:				
Residential	30,567,846	31,680,420	1,112,574	3.64%
General Service < 50 kW	6,185,903	6,511,951	326,048	5.27%
General Service > 50 kW	9,317,740	9,186,206	(131,535)	-1.41%
Intermediate	6,917,001	6,948,392	31,391	0.45%
Large Use (> 5000 kW)	1,832,459	1,842,662	10,203	0.56%
Street Lighting	669,977	675,800	5,823	0.87%
Unmetered Scattered Load	99,494	108,472	8,977	9.02%
Embedded Distributor	5,196	5,151	(45)	-0.87%
Distributed Generation Class	-	118	118	0.00%
Energy from Waste Generation	-	-	-	0.00%
Backup/Standby Power	-	-	-	0.00%
Total	55,595,618	56,959,173	1,363,555	2.45%

Comparison of 2011 Weather Normalized and 2011 Board Approved

Table 15 below provides a summary of the variances between Hydro One Brampton's 2011 weather normalized and the 2011 Board Approved distribution revenues by rate class. Actual revenues increased by \$1,371,353 or 2.47% compared to the 2011 Board Approved distribution revenue. The total increase in revenue was driven by growth in customer/connection counts as well as billed consumption.

Table 15: Distribution Revenue: Weather Normalized 2011 vs 2011 Board Approved

Description	2011 OEB Approved	2011 Weather Normalized	Variance (\$)	Variance (%)
Distribution Revenue:				
Residential	30,567,846	31,714,948	1,147,102	3.75%
General Service < 50 kW	6,185,903	6,522,976	337,073	5.45%
General Service > 50 kW	9,317,740	9,241,612	(76,129)	-0.82%
Intermediate	6,917,001	6,839,938	(77,063)	-1.11%
Large Use (> 5000 kW)	1,832,459	1,852,059	19,600	1.07%
Street Lighting	669,977	680,633	10,655	1.59%
Unmetered Scattered Load	99,494	109,490	9,996	10.05%
Embedded Distributor	5,196	5,196	-	0.00%
Distributed Generation Class	-	119	119	0.00%
Energy from Waste Generation	-	-	-	0.00%
Backup/Standby Power	-	-	-	0.00%
Total	55,595,618	56,966,971	1,371,353	2.47%

Comparison of 2012 and 2011 Weather Normalized Distribution Revenues

Table 16 below provides a summary of the variances between Hydro One Brampton's weather normalized 2012 and 2011 distribution revenues by rate class. Weather normalized revenues in 2012 increased by \$1,492,263 or 2.62% compared to the 2011 weather normalized distribution revenues. The drivers were mainly due to the price changes as a result of the Board's annual Incentive Rate Mechanism (IRM) adjustment as well as the overall increase in customer/connection counts, billed kWh and billed kW. On January 1, 2012 Hydro One Brampton implemented new Board Approved distribution rates based on its 2012 IRM Rate Application. This rate adjustment resulted in increased volumetric and fixed rates for all rate classes with the exception of the General Service > 700 kW. The reduction in revenue was due to an adjustment in the revenue to cost ratio primarily between the General Service > 700 kW and the Street Lights classes.

Table 16: Distribution Revenue: Weather Normalized 2012 vs 2011

Description	2011 Weather Normalized	2012 Weather Normalized	Variance (\$)	Variance (%)
Distribution Revenue:				
Residential	31,714,948	32,757,217	1,042,269	3.29%
General Service < 50 kW	6,522,976	6,752,415	229,439	3.52%
General Service > 50 kW	9,241,612	9,357,721	116,110	1.26%
Intermediate	6,839,938	6,341,153	(498,785)	-7.29%
Large Use (> 5000 kW)	1,852,059	1,914,895	62,836	3.39%
Street Lighting	680,633	1,217,673	537,040	78.90%
Unmetered Scattered Load	109,490	112,753	3,263	2.98%
Embedded Distributor	5,196	4,791	(405)	-7.80%
Distributed Generation Class	119	615	497	418.33%
Energy from Waste Generation	-	-	-	0.00%
Backup/Standby Power	-	-	-	0.00%
Total	56,966,971	58,459,234	1,492,263	2.62%

Comparison of 2013 and 2012 Weather Normalized Distribution Revenues

Table 17 below provides a summary of the variances between Hydro One Brampton's 2013 weather normalized and 2012 distribution revenues by rate class. Weather normalized revenues in 2013 increased by \$2,490,382 or 4.26% compared to the 2012 weather normalized actual distribution revenues. The drivers were primarily the price changes due to the Board's annual Incentive Rate Mechanism (IRM) adjustment, approval of the Smart Meter Incremental Rider (SMIRR) in Hydro One Brampton's Final Smart Meter Disposition Application (EB-2012-0440) in April 2013, as well as the overall changes in customer/connection counts and energy consumption. On January 1, 2013 Hydro One Brampton implemented new Board Approved distribution rates based on its 2013 IRM Rate Application. On May 1, 2013 HOBNI implemented Board Approved SMIRR which impacted the Residential, General Service < 50 KW and the General Service > 50 KW. The revenue from SMIRR in 2013 was approximately \$980,000.

Table 17: Distribution Revenue: Weather Normalized 2013 vs 2012

Description	2012 Weather Normalized	2013 Weather Normalized	Variance (\$)	Variance (%)
Distribution Revenue:				
Residential	32,757,217	33,903,385	1,146,167	3.50%
General Service < 50 kW	6,752,415	7,388,180	635,765	9.42%
General Service > 50 kW	9,357,721	9,532,320	174,599	1.87%
Intermediate	6,341,153	6,816,407	475,254	7.49%
Large Use (> 5000 kW)	1,914,895	1,855,722	(59,173)	-3.09%
Street Lighting	1,217,673	1,265,559	47,886	3.93%
Unmetered Scattered Load	112,753	117,198	4,445	3.94%
Embedded Distributor	4,791	5,979	1,188	24.80%
Distributed Generation Class	615	1,999	1,384	224.89%
Energy from Waste Generation	-	-	-	0.00%
Backup/Standby Power	-	62,868	62,867.67	0.00%
Total	58,459,234	60,949,616	2,490,382	4.26%

Comparison of 2014 Bridge Year and 2013 Weather Normalized Distribution Revenues

Table 18 below provides a summary of the variances between Hydro One Brampton's weather normalized 2014 Bridge Year and 2013 distribution revenues by rate class. Revenue in the 2014 Bridge Year is forecasted to increase by \$2,661,917 or 4.37% compared to the 2013 actual distribution revenue. The drivers are expected to be price changes due to the Board's annual Incentive Rate Mechanism (IRM) adjustment, Smart Meter Incremental Rider (SMIRR), forecasted changes in customer/connection counts, billed kWh and billed kW. On January 1, 2014 Hydro One Brampton implemented new Board Approved distribution rates based on its 2014 IRM Rate Application. The change in revenue based on SMIRR is expected to be approximately \$523,000.

Table 18: Distribution Revenue: Weather Normalized 2014 Bridge Year vs 2013

Description	2013 Weather Normalized	2014 Bridge Year	Variance (\$)	Variance (%)
Distribution Revenue:				
Residential	33,903,385	35,683,641	1,780,256	5.25%
General Service < 50 kW	7,388,180	7,981,598	593,418	8.03%
General Service > 50 kW	9,532,320	9,494,879	(37,442)	-0.39%
Intermediate	6,816,407	7,025,173	208,766	3.06%
Large Use (> 5000 kW)	1,855,722	1,910,345	54,624	2.94%
Street Lighting	1,265,559	1,306,393	40,834	3.23%
Unmetered Scattered Load	117,198	119,898	2,701	2.30%
Embedded Distributor	5,979	-	(5,979)	-100.00%
Distributed Generation Class	1,999	4,609	2,609	130.54%
Energy from Waste Generation	-	-	-	0.00%
Backup/Standby Power	62,868	84,997	22,129.35	35.20%
Total	60,949,616	63,611,532	2,661,917	4.37%

Comparison of Weather Normalized 2015 Test Year and 2014 Bridge Year

Table 19 below provides a summary of the variances between Hydro One Brampton's 2015 Test Year and 2014 Bridge Year forecasted distribution revenues by rate class. Revenue in the 2015 Test Year is forecasted to increase by \$6,031,632 or 9.48% compared to the 2014 Bridge Year forecasted distribution revenue. The forecasted growth in distribution revenue is driven by forecasted growth in overall customer/connection and volume as well as expected price changes to cover HOBNI's projected revenue requirement.

Table 19: Distribution Revenue: 2015 Test Year vs. 2014 Bridge Year

Description	2014 Bridge Year	2015 Test Year	Variance (\$)	Variance (%)
Distribution Revenue:				
Residential	35,683,641	39,797,560	4,113,920	11.53%
General Service < 50 kW	7,981,598	8,152,067	170,469	2.14%
General Service > 50 kW	9,494,879	10,921,194	1,426,315	15.02%
Intermediate	7,025,173	6,579,386	(445,787)	-6.35%
Large Use (> 5000 kW)	1,910,345	2,210,877	300,532	15.73%
Street Lighting	1,306,393	1,651,972	345,579	26.45%
Unmetered Scattered Load	119,898	143,356	23,458	19.56%
Embedded Distributor	-	49,281	49,281	0.00%
Distributed Generation Class	4,609	46,095	41,486	900.21%
Energy from Waste Generation	-	747	747.00	0.00%
Backup/Standby Power	84,997	90,630	5,632.63	6.63%
Total	63,611,532	69,643,165	6,031,632	9.48%

Comparison of Distribution Revenue at Existing and Proposed Rates

Table 20 below provides a summary of the variances between Hydro One Brampton's 2015 distribution revenues at proposed rates and distribution revenues at Board Approved 2014 existing rates. Revenue in the 2015 Test Year is forecasted to increase by \$4,355,570 or 6.67% compared to the 2014 Bridge Year forecasted distribution revenue.

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Table 20: Distribution Revenue at Existing and Proposed Rates

Description	2015 Revenue at Existing Rates	2015 Revenue at Proposed Rates	Variance (\$)	Variance (%)
Distribution Revenue:				
Residential	37,011,790	39,797,560	2,785,770	7.53%
General Service < 50 kW	8,305,737	8,152,067	(153,670)	-1.85%
General Service > 50 kW	9,458,822	10,921,194	1,462,372	15.46%
Intermediate	7,032,138	6,579,386	(452,753)	-6.44%
Large Use (> 5000 kW)	1,914,284	2,210,877	296,594	15.49%
Street Lighting	1,347,656	1,651,972	304,316	22.58%
Unmetered Scattered Load	122,389	143,356	20,967	17.13%
Embedded Distributor	2,541	49,281	46,740	1839.70%
Distributed Generation Class	7,240	46,095	38,855	536.63%
Energy from Waste Generation	-	747	747.00	0.00%
Backup/Standby Power	84,997	90,630	5,632.63	6.63%
Total	65,287,595	69,643,165	4,355,570	6.67%

2

3

EXHIBIT 3: Operating Revenue

TAB 3 (of 4)

Other Revenue

SUMMARY OF OTHER REVENUE

Hydro One Brampton earns and forecasts to earn Other Revenue. Other Revenue is comprised of four major categories: Specific Service Charges, Late Payment Charges, Other Operating Revenues; and Other Income or Deductions. **Table 1** below provides a high level summary and comparison of these four categories of Other Revenue for the Historic, Bridge and Test years. More details of Other Revenue amounts earned and expected to be earned in the Bridge and Test years is found in *Appendix 1* to this exhibit, which is “*Board Appendix 2-H Other Operating Revenue.*”

Table 1: Summary of Other Revenue

Other Distribution Revenue	2011 Actual	2012 Actual	2013 Actual	Bridge Year 2014	Test Year 2015
<i>Reporting Basis</i>	<i>CGAAP</i>	<i>CGAAP</i>	<i>CGAAP</i>	<i>CGAAP</i>	<i>MIFRS</i>
Specific Service Charges	1,230,341	1,309,257	1,311,839	1,316,903	1,341,796
Late Payment Charges	1,427,041	1,270,525	1,223,989	1,295,936	1,321,854
Other Operating Revenues	1,146,177	1,138,505	1,061,581	1,128,981	1,153,939
Other Income or Deductions	146,081	350,771	350,402	207,000	209,000
Total	3,949,641	4,069,058	3,947,811	3,948,820	4,026,589

SPECIFIC SERVICE CHARGES

Hydro One Brampton applies Specific Service Charges to charge customers for services or activities not directly related to the distribution of electricity to the customer. These charges are determined based on charges and rates approved by Board, which are listed under the Tariff of Rates and Charges.

Table 2 below provides details on Specific Service Charges made for the 2011 to 2013 Historic Years, as well as the 2014 Bridge and 2015 Test years.

Table 2: Specific Service Charges

Specific Service Charges	2011 Actual	2012 Actual	2013 Actual	2014 Bridge Year	2015 Test Year
Account History	570	240	180	240	240
Admin Charge	6,446	6,146	5,846	6,384	6,390
Arrears Certificate	135	315	180	-	-
Cash Discounts	-	-	1,593	-	-
Credit Reference/Credit Check	9,243	7,650	6,164	8,000	8,000
Disconnect/Reconnect At Pole During Regular Hours	370	1,110	1,295	-	1,000
Disconnect/Reconnect For >300 Volts After Regular Hours	155	155	-	-	155
Duplicate Invoices For Previous Billing	390	345	75	504	500
Easement Letter	850	1,155	1,477	1,080	1,000
Income Tax Letter	480	435	405	420	425
Lawyer Letter Fees	247	-	-	-	-
Legal Letter Charge	45	15	15	-	-
Misc Energy Charges	0	0	(0)	-	-
Misc Ser Revs - Discon/Recon	569,240	611,020	711,305	594,651	605,366
Misc Service Revenues - New Oc	611,190	650,820	669,810	670,000	683,000
Miscellaneous Income	-	2,260	(111,933)	-	-
NSF Cheque Revenues	25,300	23,820	22,800	31,000	31,000
Owner Requested Disconnection/ Reconnection Regular Hours	2,520	1,680	960	2,500	2,600
Pool Approvals	1,834	2,120	1,667	2,124	2,120
Special Charges	846	-	-	-	-
Special Meter Read Residential	480	(30)	-	-	-
	1,230,341	1,309,257	1,311,839	1,316,903	1,341,796

Hydro One Brampton did not experience significant fluctuations in actual Specific Service Charges in the 2011 to 2013 Historic Years. Average Specific Service Charges for each of the years in the 3-year period were \$1,283,812 per annum. Specific Service Charges for the 2014 Bridge and 2015 Test years are projected to be \$1,316,903 and \$1,341,796 respectively, representing small year-over-year increases from the 2013 Historic actual as a result of expected increases in the volumes of customer requests triggering such charges.

Hydro One Brampton has not proposed any new Specific Service Charges or revisions to existing charges in its current application.

LATE PAYMENT CHARGES

Historic, Bridge and Test year amounts related to Late Payment Charges are shown in **Table 3** below.

Table 3 – Late Payment Charges

Late Payment Charges					
	2011 Actual	2012 Actual	2013 Actual	2014 Bridge Year	2015 Test Year
Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS
Late Payment Charges	1,427,041	1,270,525	1,223,989	1,295,936	1,321,854
Total	1,427,041	1,270,525	1,223,989	1,295,936	1,321,854

Hydro One Brampton levies a late payment charge for overdue accounts. The Company's policy is to charge 1.5% per month (or 19.56% per annum) for late payments. This amount is applied to all accounts that are not paid by the invoice due date. Late Payment Charge revenues declined over the 2011 to 2013 Historic period, primarily as a result of 2011 OEB Customer Service Amendments whereby security deposits previously collected from residential customers were applied to the outstanding balances prior to disconnection of service. The resultant reduction of customer account amounts in arrears led to a temporary reduction in late payment charges in 2012 and 2013. Forecast revenues for the 2014 Bridge year and the 2015 Test year are \$72 thousand (6%) and \$98 thousand (8%) higher respectively than 2013 levels as the Company expects the temporary impact of offsetting security deposits to be less impactful and expects late payment revenues to return to normal levels.

OTHER OPERATING REVENUES

Historic, Bridge and Test year amounts related to Other Operating Revenues are shown in more detail in **Table 4** below.

Table 4: Detail of Other Operating Revenues

	Other Operating Revenues	2011 Actual	2012 Actual	2013 Actual	Bridge Year 2014	Test Year 2015
	Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS
4082	Retail Services Revenues	281,906	193,139	150,899	197,002	200,942
4084	Service Transaction Requests (STR) Revenues	10,200	8,500	5,120	8,670	8,843
4086	SSS Administration Charges	340,039	363,757	393,310	402,000	413,000
4090	Electric Services Incidental to Energy Sales	4,917	888	2,924	0	0
4210	Rent from Electric Property	509,116	572,221	507,328	521,309	531,154
4245	Government Assistance Directly	0	0	2,000	0	0
	Total	1,146,177	1,138,505	1,061,581	1,128,981	1,153,939

Retail Services Revenues

Hydro One Brampton's revenues from providing Retail services costs have declined over the Historic years 2011 to 2013. The forecast Bridge and Test year amounts are approximately equal to the three year Historical average. The Company was expecting more customers to continue be with Retailers but in 2013 many existing Retailer contracts ended and customers who were no longer with Retailers began paying the standard service supply (SSS) charge.

Service Transaction Requests (STR) Revenues

Hydro One Brampton charges its customers for Service Transaction Requests at the rates approved by Board and listed on the Tariff of Rates and Charges. Actual revenues in the Historic year and the Bridge and Test year forecasts are consistent and relatively small amounts.

SSS Administration Charges

Hydro One Brampton charges its customers who are on standard service supply the OEB approved rate as listed under the Tariff of Rates and Charges. SSS administration charge revenues are based on historical experience combined with projected customer information.

Revenues are projected to increase moderately from 2013 actual levels in the 2014 Bridge and 2015 Test years based on customer growth projections.

Electric Services Incidental to Energy Sales

Distribution revenue from load transfers is relatively small. The average for the 2011 to 2013 Historic years was \$2,900. No amounts have been forecasted in the Bridge or Test years due to the low and variable level of Historical revenue levels in this area.

Rent from Electric Property

Hydro One Brampton receives other income from renting space on its poles to communications and telecom companies and space in its facilities. Pole rentals are charged based on Board-approved pole rental rates and space leases are based on market values. A portion of current and forecast pole rentals and all space rentals are to affiliates. The basis for these affiliate transactions is discussed in more detail in *Exhibit, 3, Tab 3, Schedule 3 "Revenue from Affiliate Transactions."*

The Company does not expect to experience significant period-to-period fluctuations in the numbers of poles rented and existing space rentals are made under intercompany leases that are expected to continue into the Test year. The Company forecasts building space rental revenues of \$81,750 and pole rental revenues of \$440,592 in the Test year.

Government Assistance

The amount included in 2013 was a one-time government grant related to the Line Apprenticeships and it is not anticipated to recur in the Bridge or Test years.

OTHER INCOME OR DEDUCTIONS

Historic, Bridge and Test year amounts related to Other Income and Deductions are shown in more detail in **Table 5** below.

Table 5: Detail of Other Income or Deductions

	Other Income or Deductions	2011 Actual	2012 Actual	2013 Actual	Bridge Year 2014	Test Year 2015
	Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS
4390	Miscellaneous Non-Operating Income	94,723	84,424	168,342	154,000	154,000
4398	Foreign Exchange Gains / Losses	2,739	-182	28	0	0
4405	Interest and Dividend Income	48,620	266,529	182,032	53,000	55,000
	Total	146,081	350,771	350,402	207,000	209,000

Miscellaneous Non-Operating Income

Hydro One Brampton periodically receives cash from salvage value following the sale of surplus inventory or scrap items. The Company's forecast of salvage recoveries is \$154,000 in both the Bridge and Test years. This exceeds the 3-year average of approximately \$115,000 earned in the Historic years 2011 to 2013.

Foreign Exchange Gains/Losses

The Company has experienced only incidental foreign exchange gains and losses in the historic years. No amounts have been forecast in the Bridge and Test years due to materiality and an inability to reasonably estimate future events.

Interest & Dividend Income

Hydro One Brampton received an annual average of approximately \$166,000 in interest income related to cash on hand in the three Historic years 2011 to 2013. Interest revenues for the 2014 Bridge and 2015 Test years are forecast to decrease from the unusually higher levels experienced in 2012 and 2013, when larger than normal amounts of cash were on hand.

EXHIBIT 3: Operating Revenue

Appendix 1

OEB Appendix 2-H – Other Operating Revenue

Appendix 2-H
Other Operating Revenue

USoA #	USoA Description	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year ³	Test Year
					2014	2015
	Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS
4235	Specific Service Charges	\$ 1,230,341	\$ 1,309,257	\$ 1,311,839	\$ 1,316,903	\$ 1,341,796
4225	Late Payment Charges	\$ 1,427,041	\$ 1,270,525	\$ 1,223,989	\$ 1,295,936	\$ 1,321,854
4082	Retail Services Revenues	\$ 281,906	\$ 193,139	\$ 150,899	\$ 197,002	\$ 200,942
4084	Service Transaction Requests (STR) Revenues	\$ 10,200	\$ 8,500	\$ 5,120	\$ 8,670	\$ 8,843
4086	SSS Administration Charges	\$ 340,039	\$ 363,757	\$ 393,310	\$ 402,000	\$ 413,000
4090	Electric Services Incidental to Energy Sales	\$ 4,917	\$ 888	\$ 2,924	\$ -	\$ -
4210	Rent from Electric Property	\$ 509,116	\$ 572,221	\$ 507,328	\$ 521,309	\$ 531,154
4245	Government Assistance Directly	\$ -	\$ -	\$ 2,000	\$ -	\$ -
4390	Miscellaneous Non-Operating Income	\$ 94,723	\$ 84,424	\$ 168,342	\$ 154,000	\$ 154,000
4398	Foreign Exchange Gains / Losses	\$ 2,739	\$ (182)	\$ 28	\$ -	\$ -
4405	Interest and Dividend Income	\$ 48,620	\$ 266,529	\$ 185,534	\$ 54,000	\$ 55,000
Specific Service Charges		\$ 1,230,341	\$ 1,309,257	\$ 1,311,839	\$ 1,316,903	\$ 1,341,796
Late Payment Charges		\$ 1,427,041	\$ 1,270,525	\$ 1,223,989	\$ 1,295,936	\$ 1,321,854
Other Operating Revenues		\$ 1,146,177	\$ 1,138,505	\$ 1,061,581	\$ 1,128,981	\$ 1,153,939
Other Income or Deductions		\$ 146,081	\$ 350,771	\$ 353,904	\$ 208,000	\$ 209,000
Total		\$ 3,949,641	\$ 4,069,058	\$ 3,951,313	\$ 3,949,820	\$ 4,026,589

Account 4235 - Specific Service Charges

	2011 Actual	2012 Actual	2013 Actual²	Bridge Year	Test Year
Reporting Basis				2014	2015
Account History	\$ 570	\$ 240	\$ 180	\$ 240	\$ 240
Admin Charge	\$ 6,446	\$ 6,146	\$ 5,846	\$ 6,384	\$ 6,390
Arrears Certificate	\$ 135	\$ 315	\$ 180	\$ -	\$ -
Cash Discounts	\$ -	\$ -	\$ 1,593	\$ -	\$ -
Credit Reference/Credit Check	\$ 9,243	\$ 7,650	\$ 6,164	\$ 8,000	\$ 8,000
Disconnect/Reconnect At Pole During Regular Hours	\$ 370	\$ 1,110	\$ 1,295	\$ -	\$ 1,000
Disconnect/Reconnect For >300 Volts After Regular Hours	\$ 155	\$ 155	\$ -	\$ -	\$ 155
Duplicate Invoices For Previous Billing	\$ 390	\$ 345	\$ 75	\$ 504	\$ 500
Easement Letter	\$ 850	\$ 1,155	\$ 1,477	\$ 1,080	\$ 1,000
Income Tax Letter	\$ 480	\$ 435	\$ 405	\$ 420	\$ 425
Lawyer Letter Fees	\$ 247	\$ -	\$ -	\$ -	\$ -
Legal Letter Charge	\$ 45	\$ 15	\$ 15	\$ -	\$ -
Misc Energy Charges	\$ 0	\$ 0	\$ (0)	\$ -	\$ -
Misc Ser Revs - Discon/Recon	\$ 569,240	\$ 611,020	\$ 711,305	\$ 594,651	\$ 605,366
Misc Service Revenues - New Oc	\$ 611,190	\$ 650,820	\$ 669,810	\$ 670,000	\$ 683,000
Miscellaneous Income	\$ -	\$ 2,260	\$ (111,933)	\$ -	\$ -
NSF Cheque Revenues	\$ 25,300	\$ 23,820	\$ 22,800	\$ 31,000	\$ 31,000
Owner Requested Disconnection/ Reconnection Regular Hours	\$ 2,520	\$ 1,680	\$ 960	\$ 2,500	\$ 2,600
Pool Approvals	\$ 1,834	\$ 2,120	\$ 1,667	\$ 2,124	\$ 2,120
Special Charges	\$ 846	\$ -	\$ -	\$ -	\$ -
Special Meter Read Residential	\$ 480	\$ (30)	\$ -	\$ -	\$ -
Total	\$ 1,230,341	\$ 1,309,257	\$ 1,311,839	\$ 1,316,903	\$ 1,341,796

Account 4225 - Late Payment Charges

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
Late Payment Charges	\$ 1,427,041	\$ 1,270,525	\$ 1,223,989	\$ 1,295,936	\$ 1,321,854
Total	\$ 1,427,041	\$ 1,270,525	\$ 1,223,989	\$ 1,295,936	\$ 1,321,854

Account 4082 - Retail Services Revenues

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
Standard One Time Charge	\$ 200	\$ (6,900)	\$ -	\$ -	\$ (2,151)
Fixed Monthly Charge	\$ 59,973	\$ 18,865	\$ 11,648	\$ 15,207	\$ 29,048
Request Fee	\$ 51	\$ 91	\$ 303	\$ 396	\$ 143
Standard Billing Charge	\$ 83,882	\$ 68,716	\$ 52,453	\$ 68,478	\$ 65,826
Variable Monthly Charge	\$ 137,800	\$ 112,368	\$ 86,495	\$ 112,921	\$ 108,076
Total	\$ 281,906	\$ 193,139	\$ 150,899	\$ 197,002	\$ 200,942

Account 4084 - Service Transaction Requests Revenues

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
Fixed Monthly Charge	\$ 4,100	\$ 1,580	\$ 373	\$ 1,611	\$ 1,643
Request Fee	\$ 2,441	\$ 2,711	\$ 1,892	\$ 2,765	\$ 2,820
Processing Fee	\$ 3,660	\$ 4,210	\$ 2,855	\$ 4,294	\$ 4,380
Total	\$ 10,200	\$ 8,500	\$ 5,120	\$ 8,670	\$ 8,843

Appendix 2-H Other Operating Revenue

Account 4086 - SSS Administration Revenue

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
SSS Administration Charges	\$ 340,039	\$ 363,757	\$ 393,310	\$ 402,000	\$ 413,000
Total	\$ 340,039	\$ 363,757	\$ 393,310	\$ 402,000	\$ 413,000

Account 4090 - Electric Services Incidental to Energy Sales

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
Distribution Revenue Load Transfers	\$ 4,917	\$ 888	\$ 2,924		
Total	\$ 4,917	\$ 888	\$ 2,924	\$ -	\$ -

Account 4210 - Rent From Electric Property

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
Rental Income - Joint Use	\$ 269,165	\$ 273,839	\$ 271,705	\$ 292,592	\$ 301,404
Rental Income - Poles	\$ 140,041	\$ 149,646	\$ 147,344	\$ 148,000	\$ 148,000
Rental Income - Building Spaces	\$ 99,909	\$ 148,737	\$ 88,280	\$ 80,717	\$ 81,750
Total	\$ 509,116	\$ 572,221	\$ 507,328	\$ 521,309	\$ 531,154

Account 4245 - Government Assistance Directly

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
Linemans Apprenticeship Government Grants			\$ 2,000		
Total	\$ -	\$ -	\$ 2,000	\$ -	\$ -

Account 4390 - Miscellaneous Non-Operating Income

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
Sale of Scrap	\$ 154,253	\$ 98,717	\$ 159,915	\$ 154,000	\$ 154,000
Sale of Surplus Inventory	\$ 384	\$ 474			
Misc.Non-Recoverable Expense Engineering	\$ (2,193)	\$ (14,767)	\$ 8,427		
Green Energy Prefit Evaluation	\$ (57,722)		\$ 0		
Total	\$ 94,723	\$ 84,424	\$ 168,342	\$ 154,000	\$ 154,000

Account 4398 Foreign Exchange Gains and Losses

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
Foreign Exchange Gains and Losses	\$ 2,739	\$ (182)	\$ 28		
Total	\$ 2,739	\$ (182)	\$ 28	\$ -	\$ -

Account 4405 Interest and Dividend Income

	2011 Actual	2012 Actual	2013 Actual ²	Bridge Year	Test Year
Reporting Basis				2014	2015
Interest Income from RBC & TD	\$ 48,620	\$ 266,529	\$ 185,534	\$ 54,000	\$ 55,000
Total	\$ 48,620	\$ 266,529	\$ 185,534	\$ 54,000	\$ 55,000

REVENUES FROM AFFILIATE TRANSACTIONS

Historic, Bridge and Test year amounts for Revenues from Affiliate Transactions are shown in **Table 6** below.

Revenues from affiliate transactions are included in account 4210. **Table 6** below has the detail of the transactions for 2011 Actual, 2012 Actual, 2013 Actual, 2014 Bridge Year and 2015 Test Year.

Table 6: Summary of Revenues from Affiliate Transactions

Affiliate Transactions		2011 Actual	2012 Actual	2013 Actual	2014 Bridge Year	2015 Test Year
Account # 4210						
Income Type	Affiliate					
Rental Income - Poles	Hydro One Networks Inc.	8,097	8,097	8,097	8,097	8,097
Rental Income - Poles and Ducts	Hydro One Telecom Inc.	<u>124,937</u>	<u>125,596</u>	<u>125,685</u>	<u>125,685</u>	<u>125,685</u>
	sub-total	\$ 133,033	\$ 133,692	\$ 133,782	\$ 133,782	\$ 133,782
Rental Income - Spaces	Hydro One Networks Inc.	88,709	133,537	64,922	60,959	61,747
Rental Income - Spaces	Hydro One Telecom Inc.	<u>5,200</u>	<u>9,200</u>	<u>17,358</u>	<u>19,758</u>	<u>20,003</u>
	sub-total	\$ 93,909	\$ 142,737	\$ 82,280	\$ 80,717	\$ 81,750
Total Affiliate Transactions		\$ 226,942	\$ 276,429	\$ 216,061	\$ 214,499	\$ 215,532

Pole Rentals

Pole rental revenues are received through charging other entities, such as telecommunications and cable companies, for access space on Hydro One Brampton's distribution poles or in underground ducts. Affiliated company Hydro One Networks rented 283 poles from Hydro One Brampton in 2013. Actual rental revenues earned from Hydro One Networks was \$8,097 in each of the three historical years shown. This level of rental revenue is forecast to continue in the Bridge and Test years.

Affiliated company Hydro One Telecom rented 2,564 poles and 5,398 meters of ducts from Hydro One Brampton in 2013, resulting in related party rental income of \$125,685. These arrangements are forecast to continue in the Bridge and tests years and the same level of related party rental income is expected.

Space Rentals

Hydro One Networks currently leases a portion of its main administrative building to Hydro One Networks. The leased space comprises of approximately 2,676 square feet of office space on the second floor. The lease agreement specifies a basic rent of \$11 per square foot plus an additional rent of \$11.78 per square foot. The additional rent is subject to a 2.5% annual increase. In accordance with the lease agreement, annual rent in the Test Year will total \$61,747.

Hydro One Telecom currently rents 419 square feet in a secured environment for the co-location of telecommunications equipment. The lease agreement specifies a basic rent in the amount of \$1.50 per square foot of rentable area plus a cost of power utility charge in the amount of \$1.95 per square foot of rented area. The utility charge is subject to a 2.5% annual increase. In 2015, in accordance with the lease agreement, annual rent will be charged at \$20,003.

EXHIBIT 3: Operating Revenue

TAB 4 (of 4)

HOBNI Multivariate Regression Model

HOBNI Historical and Forecasted Load, Customer and Connection Counts for 2015 Rate Application

	2003 Actual	2004 Actual	2005 Actual	2006 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual vs 2010 Actual	2011 Board Approved	2011 Actual	2012 Actual	2013 Actual	2014 Weather Normal	2015 Weather Normal
Actual Purchases Excluding Adjustments	0	3,606,734,355	3,848,828,345	3,854,274,114	3,958,591,768	3,915,443,564	3,727,941,968	3,911,054,142			3,968,502,600	4,043,243,029	4,027,156,664		
Wholesale Market Participant Adjustment				0	0	0	0	0			(30,590,627)	(52,650,053)	(57,812,380)		
Embedded Distributor				0	0	0	15,570,646	19,512,252			34,785,128	34,641,332	41,319,933		
Distributed Generation				0	0	0	0	0			1,778	14,867	50,814		
Total Actual Purchases				3,854,274,114	3,958,591,768	3,915,443,564	3,743,512,615	3,930,566,395			3,972,698,879	4,025,249,175	4,010,715,032		
Predicted kWh Purchases from Regression	0	3,618,703,271	3,848,828,345	3,831,498,914	3,951,695,295	3,896,414,064	3,781,079,154	3,889,917,169		3,962,537,442	3,969,819,877	4,039,088,423	4,036,523,438	4,109,065,670	4,194,973,860
Wholesale Market Participant Adjustment											(30,590,627)	(52,650,053)	(57,812,380)	(57,815,958)	(57,825,129)
CDM Adjustment										(19,000,000)				(45,863,104)	(53,726,380)
Embedded Distributor							15,570,646	19,512,252		34,785,128	34,785,128	34,641,332	41,319,933	-	17,432,620
Distributed Generation											1,778	14,867	50,814	117,684	184,913
Total Predicted Purchases	-	3,618,703,271	3,848,828,345	3,831,498,914	3,951,695,295	3,896,414,064	3,796,649,801	3,909,429,422		3,978,322,570	3,974,016,156	4,021,094,569	4,020,081,806	4,005,504,291	4,101,039,885
% Difference (Predicted/Actual)	0.0%	0.3%	0.0%	-0.6%	-0.2%	-0.5%		-0.5%			0.0%	-0.1%	0.2%		
Billed kWh	3,329,496,978	3,483,144,427	3,723,506,554	3,718,723,113	3,839,000,000	3,791,763,566	3,631,910,103	3,807,772,782		3,850,115,760	3,865,234,849	3,909,965,088	3,877,058,755	3,879,975,810	3,972,635,063
By Class			106.359%	99.550%	103.137%	98.601%	97.440%	102.971%			99.892%	101.185%	99.975%	99.637%	102.385%
Residential															
Customers	91,671	98,355	104,822	109,778	114,119	119,060	121,041	123,013		124,916	126,317	129,699	133,723	137,303	140,979
kWh	918,500,653	933,248,820	1,066,310,557	1,041,609,067	1,102,238,845	1,093,308,663	1,088,557,819	1,171,315,280		1,123,427,772	1,190,237,359	1,212,040,627	1,198,023,626	1,249,454,159	1,308,264,983
Average kWh Usage	10,020	9,489	10,173	9,488	9,659	9,183	8,993	9,522		8,993	9,423	9,345	8,959	9,100	9,280
Customer Change Y/Y		6,684	6,467	4,957	4,341	4,941	1,981	1,972	3,304		1,401	3,382	4,024	3,580	3,676
kWh Change Y/Y		14,748,167	133,061,737	(24,701,490)	60,629,778	(8,930,182)	(4,750,844)	82,757,461	18,922,079		66,809,587	21,803,268	(14,017,001)	51,430,533	58,810,824
Average kWh Usage Change Y/Y		(531)	684	(684)	170	(476)	(190)	(99.26)	(99.26)		429	(78)	(386)	141	180
Customer Change Y/Y %		107.29%	106.58%	104.73%	103.95%	104.33%	101.66%	101.63%	102.69%		101.12%	102.68%	103.10%	2.68%	2.68%
kWh Change Y/Y %		1.016	14.26%	-2.32%	5.82%	0.992	-0.43%	7.60%	101.62%		5.95%	1.83%	-1.16%	4.29%	4.71%
Average kWh Usage Change %		0.947	1.072	0.933	1.018	0.951	0.979	1.059	0.9896		1.0477	0.9918	0.9587	1.57%	1.98%
GS<50															
Customers	6,512	6,648	6,892	7,075	7,294	7,437	7,529	7,752		7,893	8,080	8,328	8,532	8,758	8,989
kWh	261,424,109	264,116,354	288,084,106	282,703,766	298,781,693	288,887,931	283,991,997	291,782,860		291,481,574	309,962,282	315,917,674	323,299,858	338,649,623	354,668,870
Average kWh Usage	40,147	39,727	41,802	39,956	40,961	38,846	37,721	37,642		36,929	38,360	37,936	37,893	38,669	39,454
Customer Change Y/Y		137	243	184	219	142	92	223	329		187	247	204	226	232
kWh Change Y/Y		2,692,245	23,967,752	(5,380,340)	16,077,927	(9,893,762)	(4,895,934)	7,790,863	18,179,422		18,480,708	5,955,392	7,382,184	15,349,765	16,019,247
Average kWh Usage Change Y/Y		(419)	2,075	(1,846)	1,005	(2,115)	(1,125)	(79)	717.97		1,431	(424)	(43)	776	785
Customer Change Y/Y %		2.10%	3.66%	2.67%	3.10%	1.95%	1.24%	2.96%	104.24%		2.37%	3.06%	2.45%	2.65%	2.65%
kWh Change Y/Y %		1.03%	9.07%	-1.87%	5.69%	-3.31%	-1.69%	2.74%	106.23%		6.34%	1.92%	2.34%	4.75%	4.73%
Average kWh Usage Change %		0.9896	1.0522	0.9558	1.0251	0.9484	0.9710	0.9979	1.0191		1.0387	0.9890	0.9989	1.0205	1.0203
USL															
Customers	72	72	72	72	70	67	66	62		62	61	61	59	57	56
Connections	1,105	1,130	1,159	1,207	1,250	1,267	1,280	1,293		1,300	1,369	1,424	1,477	1,519	1,562
kWh	7,522,732	5,817,642	5,528,171	5,294,847	5,047,284	5,107,860	5,104,985	5,197,576		4,969,698	5,450,025	5,562,245	5,706,945	5,818,253	5,931,733
Average kWh Usage	6,808	5,148	4,770	4,387	4,038	4,031	3,988	4,020		3,822	3,982	3,906	3,863	3,831	3,798
Customer Change Y/Y		-	0	(0)	(2)	(3)	(1)	(4)	(1)		(1)	(1)	(2)	(2)	(1)
Connection Change Y/Y		25	29	48	43	17	13	13	76		68	55	53	42	43
kWh Change Y/Y		(1,705,090)	(289,471)	(233,324)	(247,562)	60,575	(2,875)	92,592	252,449		480,327	112,220	144,700	111,308	113,479
Average kWh Usage Change Y/Y		(1,660)	(379)	(383)	(349)	(6)	(43)	32	(38)		160	(76)	(42)	(33)	(32)
Customer Change Y/Y %		0	0.35%	-0.46%	-3.13%	-3.83%	-1.24%	-6.30%	-1.34%		-1.34%	-0.82%	-3.02%	-2.57%	-2.57%
Connection Change Y/Y %		2.26%	2.57%	4.14%	3.56%	1.36%	1.03%	1.02%	5.86%		5.26%	4.04%	3.73%	2.82%	2.82%
kWh Change Y/Y %		-22.67%	-4.98%	-4.22%	-4.68%	1.20%	-0.06%	1.81%	4.86%		5.26%	2.06%	2.60%	1.95%	1.95%
Average kWh Usage Change %		0.7562	0.9265	0.9197	0.9205	0.9984	0.9893	1.0079	0.9905		1.0418	0.9810	0.9891	0.9915	0.9915
GS>50															
Customers	1,357	1,393	1,364	1,402	1,417	1,491	1,554	1,539		1,552	1,537	1,525	1,511	1,501	1,491
kWh	996,032,849	1,045,707,603	1,083,191,856	1,080,817,874	1,109,791,374	1,116,685,267	1,081,007,720	1,088,985,441		1,131,611,317	1,100,145,274	1,101,990,613	1,084,942,787	1,067,572,851	1,064,497,599
kW	2,726,683	2,792,673	2,901,457	2,962,866	3,039,974	3,064,109	3,049,119	3,049,813		3,101,358	3,051,053	3,074,186	3,051,058	2,988,434	2,979,826
Average kWh Usage	733,771	750,508	794,275	770,866	783,290	748,867	695,778	707,593		729,031	715,774	722,419	717,832	711,225	714,081
Average kW Usage	2,009	2,004	2,128	2,113	2,146	2,055	1,983	1,982		1,998	1,985	2,015	2,019	1,991	1,999
Customer Change Y/Y		36	(30)	38	15	74	63	(15)	(2)		(15)	(12)	(14)	(10)	(10)
kWh Change Y/Y		49,674,754	37,484,253	(2,373,982)	28,973,500	6,893,894	(35,677,547)	7,977,721	11,159,832		(31,466,044)	1,845,339	(17,047,825)	(17,369,936)	(3,075,253)
kW Change Y/Y		65,990	108,784	61,409	77,108	24,135	(14,990)	694	1,240		(50,305)	23,133	(23,128)	(62,624)	(8,608)
Average kWh Usage Change Y/Y		16,737	43,767	(23,409)	12,424	(34,423)	(53,088)	11,814	8,182		(13,256)	6,645	(4,588)	(6,607)	2,856
Average kW Usage Change Y/Y		(4)	123	(14)	32	(91)	(92)	19	3		(13)	30	3	(28)	8
Customer Change Y/Y %		2.65%	-2.12%	2.81%	1.05%	5.25%	4.19%	-0.94%	-0.13%		-0.98%	-0.75%	-0.92%	-0.69%	-0.69%
kWh Change Y/Y %		4.99%	3.58%	-0.22%	2.68%	0.62%	-3.19%	0.74%	1.02%		-2.78%	0.17%	-1.55%	-1.60%	-0.29%
kW Change Y/Y %		2.42%	3.90%	2.12%	2.60%	0.79%	-0.49%	0.02%	0.04%		-1.62%	0.76%	-0.75%	-2.05%	-0.29%
Average kWh Usage Change		1.0228	1.0583	0.9705	1.0161	0.9561	0.9291	1.0170	1.0116		-1.82%	0.93%	-0.64%	-0.92%	0.40%
Average kW Usage Change		0.9978	1.0615	0.9932	1.0153	0.9577	0.9551	1.0098	1.0017		0.9935	1.52%	0.17%	-1.38%	0.40%
Intermediate															
Customers	126	124	121	119	117	116	114	114		106	112	112	115	115	115
kWh	845,121,401	922,964,134	954,061,083	950,418,593	942,048,351	872,378,904	788,185,444	839,914,785		843,484,098	801,310,497	807,792,313	812,965,292	804,411,590	806,154,180
kW	1,956,285	2,104,962	2,167,872	2,137,488	2,106,615	1,976,551	1,839,970	1,916,781		1,904,929	1,894,300	1,928,037	1,980,476	1,965,158	1,969,146
Average kWh Usage	6,711,752	7,423,304	7,917,519	8,009,145	8,063,181	7,542,181	6,918,965	7,367,674		7,960,906	7,159,885	7,244,774	7,059,033	7,001,507	7,033,497
Average kW Usage	15,536	16,930	17,991	18,013	18,031	17,088	16,152	16,814		17,979	16,926	17,292	17,197	17,105	17,180
Customer Change Y/Y		(2)	(4)	(2)	(2)	(1)	(2)	0	(2)		6	(0)	4	(0)	(0)
kWh Change Y/Y		77,842,733	31,096,949	(3,642,490)	(8,370,242)	(69,669,447)	(84,193,460)	51,729,341	(38,604,288)		(42,173,601)	6,481,816	5,172,978	(8,553,701)	1,742,590
kW Change Y/Y		148,677	62,910	(30,384)	(30,873)	(130,064)	(136,581)	76,811	(22,481)		(10,629)	33,737	52,439	(15,318)	3,988
Average kWh Usage Change Y/Y		711,552	494,215	91,626	54,036	(521,001)	(623,216)	448,708	(207,788)		(801,020)	84,889	(185,741)	(57,526)	31,990
Average kW Usage Change Y/Y		1,394	1,061	22	18	(943)	(936)	662	112		(1,053)	366	(95)	(92)	76
Customer Change Y/Y %		-1.26%	-3.08%	-1.52%	-1.54%	-1.00%	-1.51%	0.07%	-1.83%		-0.37%	0.32%	3.29%	-0.24%	-0.24%
kWh Change Y/Y %		9.21%	3.37%	-0.38%	-0.88%	-7.40%	-9.65%	6.56%	-4.60%		-5.00%	0.81%	0.64%	-1.05%	0.22%
kW Change Y/Y %		7.60%	2.99%	-1.40%	-1.44%	-6.17%	-6.91%	4.17%	-1.17%		-0.56%	1.78%	2.72%	-0.77%	0.20%
Average kWh Usage Change %		10.60%	6.66%	1.16%	0.67%	-6.46%	-8.26%	6.49%	0.9718		-10.06%	1.19%	-2.56%</		

HOBNI Historical and Forecasted Load, Customer and Connection Counts for 2015 Rate Application

	2003 Actual	2004 Actual	2005 Actual	2006 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual vs 2010 Actual	2011 Board Approved	2011 Actual	2012 Actual	2013 Actual	2014 Weather Normal	2015 Weather Normal
Large Use															
Customers	4	3	3	4	5	6	6	6		6	6	6	6	6	6
kWh	281,784,328	290,325,102	304,422,360	334,087,722	355,306,260	388,608,247	342,523,390	363,198,797		391,244,134	394,428,511	402,243,669	380,451,262	381,669,818	382,619,513
kW	531,189	505,001	515,785	589,471	639,861	712,935	696,851	684,290		711,951	716,743	736,260	701,011	718,200	719,987
Average kWh Usage	70,446,082	94,159,492	101,474,120	85,298,993	72,265,680	64,768,041	57,087,232	60,533,133		65,207,356	65,738,085	67,040,612	63,408,544	63,611,636	63,769,919
Average kW Usage	132,797	163,784	171,928	150,503	130,141	118,823	116,142	114,048		118,659	119,457	122,710	116,835	119,700	119,998
Customer Change Y/Y		(1)	(0)	1	1	1	-	-	-		-	-	-	-	-
kWh Change Y/Y		8,540,774	14,097,258	29,665,362	21,218,538	33,301,987	(46,084,857)	20,675,407	31,229,714		3,184,377	7,815,158	(21,792,407)	1,218,557	949,695
kW Change Y/Y		(26,188)	10,784	73,686	50,390	73,074	(16,084)	(12,561)	32,453		4,792	19,517	(35,249)	17,189	1,787
Average kWh Usage Change Y/Y		23,713,410	7,314,628	(16,175,127)	(13,033,313)	(7,497,639)	(7,680,809)	3,445,901	5,204,952		530,730	1,302,526	(3,632,068)	203,093	158,283
Average kW Usage Change Y/Y		30,987	8,144	(21,425)	(20,362)	(11,319)	(2,681)	(2,094)	5,409		799	3,253	(5,875)	2,865	298
Customer Change Y/Y %		-22.92%	-2.70%	30.56%	25.53%	22.03%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
kWh Change Y/Y %		3.03%	4.86%	9.74%	6.35%	9.37%	-11.86%	6.04%	8.60%		0.81%	1.98%	-5.42%	0.32%	0.25%
kW Change Y/Y %		-4.93%	2.14%	14.29%	8.55%	11.42%	-2.26%	-1.80%	4.74%		0.67%	2.72%	-4.79%	2.45%	0.25%
Average kWh Usage Change %		33.66%	7.77%	-15.94%	-15.28%	-10.38%	-11.86%	6.04%	1.0860		0.81%	1.98%	-5.42%	0.32%	0.25%
Average kW Usage Change %		23.33%	4.97%	-12.46%	-13.53%	-8.70%	-2.26%	-1.80%	1.0474		0.67%	2.72%	-4.79%	2.45%	0.25%
SLR															
Customers	2	2	2	2	2	2	2	2		2	2	2	2	2	2
Lamps	30,338	31,611	32,938	34,321	35,762	37,265	38,829	40,459		42,158	41,470	42,363	43,516	44,887	46,301
Connections	19,210	19,382	19,532	19,701	20,002	20,282	20,465	20,691		21,219	21,003	21,359	21,727	22,029	22,335
kWh	19,110,906	20,964,771	21,908,421	23,791,245	25,786,193	26,786,693	27,343,426	28,336,125		29,651,502	29,752,537	30,597,265	31,295,952	32,285,800	33,306,955
kW	58,415	60,474	65,522	70,150	76,385	79,929	81,921	84,893		88,254	90,235	92,995	95,410	97,585	100,672
Average kWh Usage	995	1,082	1,122	1,208	1,289	1,321	1,336	1,370		1,397	1,417	1,432	1,440	1,466	1,491
Average kW Usage	3	3	3	4	4	4	4	4		4	4	4	4	4	5
Customer Change Y/Y		-	-	-	-	-	-	-	-		-	-	-	-	-
Lamp Change Y/Y		1,273	1,327	1,383	1,441	1,502	1,565	1,630	1,011		(688)	893	1,153	1,371	1,414
Connection Change Y/Y		173	150	168	302	280	183	226	313		(216)	356	368	302	306
kWh Change Y/Y		1,853,865	943,650	1,882,824	1,994,948	1,000,500	556,733	992,699	1,416,412		101,035	844,728	698,687	989,847	1,021,155
kW Change Y/Y		2,059	5,048	4,628	6,235	3,544	1,992	2,972	5,342		1,981	2,760	2,415	2,175	3,086
Average kWh Usage Change Y/Y		87	40	86	82	32	15	33	47		19	16	8	25	26
Average kW Usage Change Y/Y		0	0	0	0	0	0	0	0		0	0	0	0	0
Customer Change Y/Y %		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
Lamp Change Y/Y %		4.20%	4.20%	4.20%	4.20%	4.20%	4.20%	4.20%	2.50%		-1.63%	2.15%	2.72%	3.15%	3.15%
Connection Change Y/Y %		0.90%	0.77%	0.86%	1.53%	1.40%	0.90%	1.10%	1.51%		-1.02%	1.70%	1.72%	1.39%	1.39%
kWh Change Y/Y %		9.70%	4.50%	8.59%	8.39%	3.88%	2.08%	3.63%	5.00%		0.34%	2.84%	2.28%	3.16%	3.16%
kW Change Y/Y %		3.52%	8.35%	7.06%	8.89%	4.64%	2.49%	3.63%	6.29%		2.24%	3.06%	2.60%	2.28%	3.16%
Average kWh Usage Change %		8.72%	3.70%	7.67%	6.75%	2.45%	1.17%	2.50%	3.44%		1.37%	1.12%	0.55%	1.75%	1.75%
Average kW Usage Change %		2.60%	7.52%	6.15%	7.25%	3.20%	1.58%	2.50%	4.71%		3.29%	1.34%	0.86%	0.88%	1.75%
Embedded Distributor															
Customers							1	1		1	1	1	1	1	1
kWh							15,195,322	19,041,917		34,245,664	33,946,646	33,806,316	40,323,932	0	17,012,414
kW							34,990	39,259		84,901	84,159	76,798	94,985	0	40,073
Average kWh Usage							15,195,322	19,041,917		34,245,664	33,946,646	33,806,316	40,323,932	0	17,012,414
Average kW Usage							34,990	39,259		84,901	84,159	76,798	94,985	0	40,073
Customer Change Y/Y							1	-		-	-	-	-	-	-
kWh Change Y/Y							15,195,322	3,846,595	14,904,729		(299,018)	(140,330)	6,517,616	(40,323,932)	17,012,414
kW Change Y/Y							34,990	4,270	44,900		(741)	(7,361)	18,187	(94,985)	40,073
Average kWh Usage Change Y/Y								3,846,595	14,904,729		(299,018)	(140,330)	6,517,616	(40,323,932)	17,012,414
Average kW Usage Change Y/Y								4,270	44,900		(741)	(7,361)	18,187	(94,985)	40,073
Customer Change Y/Y %								0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
kWh Change Y/Y %								25.31%	78.27%		-0.87%	-0.41%	19.28%	-100.00%	0.00%
kW Change Y/Y %								12.20%	114.37%		-0.87%	-8.75%	23.68%	-100.00%	0.00%
Average kWh Usage Change %								25.31%	1.7827		-0.87%	-0.41%	19.28%	-100.00%	0.00%
Average kW Usage Change %								12.20%	2.1437		-0.87%	-8.75%	23.68%	-100.00%	0.00%
Distributed Generation															
Customers							0	0		0	1	6	19	43	68
kWh							0	0		0	1,718	14,366	49,101	113,715	178,816
Average kWh Usage							0	0		0	1,213	2,394	2,619	2,642	2,646
Customer Change Y/Y							-	-	1		1	5	13	24	25
kWh Change Y/Y							-	-	1,718		1,718	12,648	34,735	64,615	65,100
Average kWh Usage Change Y/Y							-	-	1,212.51		1,213	1,182	224	23	4
Customer Change Y/Y %							0.00%	0.00%	0.00%		0.00%	323.53%	212.50%	129.56%	57.02%
kWh Change Y/Y %							0.00%	0.00%	0.00%		0.00%	736.34%	241.78%	131.60%	57.25%
Average kWh Usage Change %							0.00%	0.00%	0.00%		0.00%	97.47%	9.37%	0.89%	0.15%

HOBNI Historical and Forecasted Load, Customer and Connection Counts for 2015 Rate Application

	2003 Actual	2004 Actual	2005 Actual	2006 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual vs 2010 Actual	2011 Board Approved	2011 Actual	2012 Actual	2013 Actual	2014 Weather Normal	2015 Weather Normal
Energy From Waste Generation															
Customers							1	1		1	1	1	1	1	1
kWh							-	-		-	-	-	-	-	-
kW							-	-		-	-	-	-	-	-
Average kWh Usage							-	-		-	-	-	-	-	-
Average kW Usage							-	-		-	-	-	-	-	-
Customer Change Y/Y							1	-	-	-	-	-	-	-	-
kWh Change Y/Y							-	-	-	-	-	-	-	-	-
kW Change Y/Y							-	-	-	-	-	-	-	-	-
Average kWh Usage Change Y/Y							-	-	-	-	-	-	-	-	-
Average kW Usage Change Y/Y							-	-	-	-	-	-	-	-	-
Customer Change Y/Y %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
kWh Change Y/Y %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
kW Change Y/Y %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Average kWh Usage Change %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Average kW Usage Change %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Back-up/Standby Power															
Customers							-	-		-	-	-	1	1	1
kWh							-	-		-	-	-	-	-	-
kW							-	-		-	-	-	40,935	54,580	54,580
Average kWh Usage							-	-		-	-	-	-	-	-
Average kW Usage							-	-		-	-	-	40,935	54,580	54,580
Customer Change Y/Y							-	-	-	-	-	-	1	-	-
kWh Change Y/Y							-	-	-	-	-	-	-	-	-
kW Change Y/Y							-	-	-	-	-	-	40,935	13,645	-
Average kWh Usage Change Y/Y							-	-	-	-	-	-	-	-	-
Average kW Usage Change Y/Y							-	-	-	-	-	-	40,935	13,645	-
Customer Change Y/Y %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
kWh Change Y/Y %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
kW Change Y/Y %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%
Average kWh Usage Change %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Average kW Usage Change %							0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%
Total															
Customers	99,744	106,598	113,275	118,452	123,023	128,179	130,313	132,489	-	134,539	136,119	139,740	143,970	147,788	151,708
Connections	20,315	20,512	20,691	20,908	21,252	21,549	21,745	21,984	-	22,519	22,372	22,784	23,204	23,548	23,896
kWh	3,329,496,978	3,483,144,427	3,723,506,554	3,718,723,113	3,839,000,000	3,791,763,566	3,631,910,103	3,807,772,782	-	3,850,115,760	3,865,234,849	3,909,965,088	3,877,058,755	3,879,975,810	3,972,635,063
kW from applicable classes	5,272,572	5,463,110	5,650,636	5,759,975	5,862,835	5,833,524	5,702,851	5,775,036	-	5,891,393	5,836,490	5,908,276	5,963,875	5,823,957	5,864,284

HOBNI Weather Normalized Historical and Forecasted Load, Customer and Connection for 2015 Rate Application

	2009 Weather Normalized	2010 Weather Normalized	2011 Actual vs 2010 Actual	2011 Board Approved	2011 Weather Normalized	2012 Weather Normalized	2013 Weather Normalized	2014 Weather Normal	2015 Weather Normal
Actual Purchases Excluding Adjustments	3,727,941,968	3,911,054,142			3,968,502,600	4,043,243,029	4,027,156,664		
Wholesale Market Participant Adjustment	0	0			(30,590,627)	(52,650,053)	(57,812,380)		
Embedded Distributor	15,570,646	19,512,252			34,785,128	34,641,332	41,319,933		
Distributed Generation	0	0			1,797	15,026	51,355		
Total Actual Purchases	3,743,512,615	3,930,566,395			3,972,698,898	4,025,249,333	4,010,715,573		
Predicted kWh Purchases from Regression	3,781,079,154	3,889,917,169		3,962,537,442	3,969,819,877	4,039,088,423	4,036,523,438	4,109,065,670	4,194,973,860
Wholesale Market Participant Adjustment					(30,590,627)	(52,650,053)	(57,812,380)	(57,815,958)	(57,825,129)
CDM Adjustment				(19,000,000)				(45,863,104)	(53,726,380)
Embedded Distributor	15,570,646	19,512,252		34,785,128	34,785,128	34,641,332	41,319,933	-	17,432,620
Distributed Generation					1,797	15,026	51,355	117,684	184,913
Total Predicted Purchases	3,796,649,801	3,909,429,422		3,978,322,570	3,974,016,175	4,021,094,727	4,020,082,347	4,005,504,291	4,101,039,885
% Difference (Predicted/Actual)	1.4%	-0.5%			0.0%	-0.1%	0.2%		
Billed kWh	3,632,175,994	3,807,969,432		3,850,115,760	3,865,533,886	3,910,338,523	3,877,345,712	3,879,975,810	3,972,635,063
		102.971%			99.892%	101.185%	99.975%	99.637%	102.385%
By Class									
Residential									
Customers	121,041	123,013		124,916	126,317	129,699	133,723	137,303	140,979
kWh	1,115,888,474	1,177,664,858		1,123,427,772	1,192,668,901	1,220,835,179	1,205,670,409	1,249,454,159	1,308,264,983
Average kWh Usage	9,219	9,574		8,993	9,442	9,413	9,016	9,100	9,280
Customer Change Y/Y	121,041	1,972	3,304		1,401	3,382	4,024	3,580	3,676
kWh Change Y/Y	1,115,888,474	61,776,384	15,004,043		69,241,129	28,166,278	(15,164,771)	43,783,751	58,810,824
Average kWh Usage Change Y/Y	9,219	354	(131.63)		448	(29)	(397)	84	180
Customer Change Y/Y %		1.63%	102.69%		1.12%	2.68%	3.10%	2.68%	2.68%
kWh Change Y/Y %		5.54%	101.27%		6.16%	2.36%	-1.24%	3.63%	4.71%
Average kWh Usage Change %		3.84%	0.9863		4.99%	-0.31%	-4.21%	0.93%	1.98%
GS<50									
Customers	7,529	7,752		7,893	8,080	8,328	8,532	8,758	8,989
kWh	290,164,103	293,428,537		291,481,574	310,673,553	318,669,115	324,486,114	338,649,623	354,668,870
Average kWh Usage	38,541	37,854		36,929	38,448	38,267	38,032	38,669	39,454
Customer Change Y/Y	7,529	223	329		187	247	204	226	232
kWh Change Y/Y	290,164,103	3,264,435	17,245,016		19,191,979	7,995,562	5,816,999	14,163,508	16,019,247
Average kWh Usage Change Y/Y	38,541	(686)	593.69		1,519	(181)	(235)	637	785
Customer Change Y/Y %		2.96%	104.24%		2.37%	3.06%	2.45%	2.65%	2.65%
kWh Change Y/Y %		1.13%	105.88%		6.58%	2.57%	1.83%	4.36%	4.73%
Average kWh Usage Change %		-1.78%	1.0157		4.11%	-0.47%	-0.61%	1.67%	2.03%
USL									
Customers	66	62		62	61	61	59	57	56
Connections	1,280	1,293		1,300	1,369	1,424	1,477	1,519	1,562
kWh	5,162,842	5,256,468		4,969,698	5,509,573	5,621,483	5,767,707	5,818,253	5,931,733
Average kWh Usage	4,033	4,065		3,822	4,025	3,947	3,905	3,831	3,798
Customer Change Y/Y	66	(4)	(1)		(1)	(1)	(2)	(2)	(1)
Connection Change Y/Y	1,280	13	76		68	55	53	42	43
kWh Change Y/Y	5,162,842	93,626	253,105		539,874	111,910	146,224	50,546	113,479
Average kWh Usage Change Y/Y	4,033	32	(40)		203	(78)	(43)	(74)	(32)
Customer Change Y/Y %		-6.30%	-1.34%		-1.34%	-0.82%	-3.02%	-2.57%	-2.57%
Connection Change Y/Y %		1.02%	5.86%		5.26%	4.04%	3.73%	2.82%	2.82%
kWh Change Y/Y %		1.81%	4.82%		10.86%	2.03%	2.60%	0.88%	1.95%
Average kWh Usage Change %		0.79%	0.9901		5.32%	-1.93%	-1.09%	-1.89%	-0.85%
GS>50									
Customers	1,554	1,539		1,552	1,537	1,525	1,511	1,501	1,491
kWh	1,090,747,173	1,097,960,912		1,131,611,317	1,108,606,699	1,112,266,841	1,089,802,508	1,067,572,851	1,064,497,599

HOBNI Weather Normalized Historical and Forecasted Load, Customer and Connection for 2015 Rate Application

	2009 Weather Normalized	2010 Weather Normalized	2011 Actual vs 2010 Actual	2011 Board Approved	2011 Weather Normalized	2012 Weather Normalized	2013 Weather Normalized	2014 Weather Normal	2015 Weather Normal
kW	3,076,590	3,074,950		3,101,358	3,074,519	3,102,853	3,064,724	2,988,434	2,979,826
Average kWh Usage	702,047	713,425		729,031	721,280	729,156	721,047	711,225	714,081
Average kW Usage	1,980	1,998		1,998	2,000	2,034	2,028	1,991	1,999
Customer Change Y/Y	1,554	(15)	(2)		(15)	(12)	(14)	(10)	(10)
kWh Change Y/Y	1,090,747,173	7,213,740	10,645,786		(23,004,619)	3,660,143	(22,464,334)	(22,229,657)	(3,075,253)
kW Change Y/Y	3,076,590	(1,641)	(430)		(26,839)	28,334	(38,129)	(76,290)	(8,608)
Average kWh Usage Change Y/Y	702,047	11,378	7,855		(7,751)	7,877	(8,109)	(9,823)	2,856
Average kW Usage Change Y/Y	1,980	18	2		2	34	(6)	(37)	8
Customer Change Y/Y %		-0.94%	-0.13%		-0.98%	-0.75%	-0.92%	-0.69%	-0.69%
kWh Change Y/Y %		0.66%	0.97%		-2.03%	0.33%	-2.02%	-2.04%	-0.29%
kW Change Y/Y %		-0.05%	-0.01%		-0.87%	0.92%	-1.23%	-2.49%	-0.29%
Average kWh Usage Change %		1.62%	1.10%		-1.06%	1.09%	-1.11%	-1.36%	0.40%
Average kW Usage Change %		0.90%	0.12%		0.12%	1.69%	-0.31%	-1.81%	0.40%
Intermediate									
Customers	114	114		106	112	112	115	115	115
kWh	801,126,399	853,839,633		843,484,098	813,890,185	815,930,763	817,925,218	804,411,590	806,154,180
kW	1,870,180	1,948,559		1,904,929	1,924,038	1,947,462	1,992,559	1,965,158	1,969,146
Average kWh Usage	7,032,565	7,489,821		7,960,906	7,272,288	7,317,765	7,102,100	7,001,507	7,033,497
Average kW Usage	16,417	17,093		17,979	17,192	17,466	17,302	17,105	17,180
Customer Change Y/Y	114	0	(2)		6	(0)	4	(0)	(0)
kWh Change Y/Y	801,126,399	52,713,233	(39,949,447)		(29,593,913)	2,040,577	1,994,455	(13,513,628)	1,742,590
kW Change Y/Y	1,870,180	78,379	(24,521)		19,109	23,423	45,097	(27,401)	3,988
Average kWh Usage Change Y/Y	7,032,565	457,256	(217,534)		(688,618)	45,477	(215,664)	(100,593)	31,990
Average kW Usage Change Y/Y	16,417	676	99		(787)	274	(165)	(197)	76
Customer Change Y/Y %		0.07%	-1.83%		5.63%	-0.37%	3.29%	-0.24%	-0.24%
kWh Change Y/Y %		6.58%	-4.68%		-3.51%	0.25%	0.24%	-1.65%	0.22%
kW Change Y/Y %		4.19%	-1.26%		1.00%	1.22%	2.32%	-1.38%	0.20%
Average kWh Usage Change %		6.50%	-2.90%		-8.65%	0.63%	-2.95%	-1.42%	0.46%
Average kW Usage Change %		4.11%	0.58%		-4.38%	1.60%	-0.94%	-1.14%	0.44%
Large Use									
Customers	6	6		6	6	6	6	6	6
kWh	344,971,561	365,551,177		391,244,134	396,857,107	406,313,173	382,721,457	381,669,818	382,619,513
kW	701,832	688,722		711,951	721,156	743,709	705,194	718,200	719,987
Average kWh Usage	57,495,260	60,925,196		65,207,356	66,142,851	67,718,862	63,786,910	63,611,636	63,769,919
Average kW Usage	116,972	114,787		118,659	120,193	123,951	117,532	119,700	119,998
Customer Change Y/Y	6	-	-		-	-	-	-	-
kWh Change Y/Y	344,971,561	20,579,616	31,305,930		5,612,973	9,456,066	(23,591,716)	(1,051,639)	949,695
kW Change Y/Y	701,832	(13,110)	32,434		9,205	22,553	(38,515)	13,006	1,787
Average kWh Usage Change Y/Y	57,495,260	3,429,936	5,217,655		935,496	1,576,011	(3,931,953)	(175,273)	158,283
Average kW Usage Change Y/Y	116,972	(2,185)	5,406		1,534	3,759	(6,419)	2,168	298
Customer Change Y/Y %		0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
kWh Change Y/Y %		5.97%	8.56%		1.43%	2.38%	-5.81%	-0.27%	0.25%
kW Change Y/Y %		-1.87%	4.71%		1.29%	3.13%	-5.18%	1.84%	0.25%
Average kWh Usage Change %		5.97%	8.56%		1.43%	2.38%	-5.81%	-0.27%	0.25%
Average kW Usage Change %		-1.87%	4.71%		1.29%	3.13%	-5.18%	1.84%	0.25%
SLR									
Customers	2	2		2	2	2	2	2	2
Lamps	38,829	40,459		42,158	41,470	42,363	43,516	44,887	46,301
Connections	20,465	20,691		21,219	21,003	21,359	21,727	22,029	22,335
kWh	27,653,325	28,657,273		29,651,502	30,077,898	30,923,126	31,629,254	32,285,800	33,306,955
kW	82,849	85,855		88,254	91,222	93,985	96,426	97,585	100,672
Average kWh Usage	1,351	1,385		1,397	1,432	1,448	1,456	1,466	1,491
Average kW Usage	4	4		4	4	4	4	4	5
Customer Change Y/Y	2	-	-		-	-	-	-	-
Lamp Change Y/Y	38,829	1,630	1,011		(688)	893	1,153	1,371	1,414
Connection Change Y/Y	20,465	226	313		(216)	356	368	302	306

HOBNI Weather Normalized Historical and Forecasted Load, Customer and Connection for 2015 Rate Application

	2009 Weather Normalized	2010 Weather Normalized	2011 Actual vs 2010 Actual	2011 Board Approved	2011 Weather Normalized	2012 Weather Normalized	2013 Weather Normalized	2014 Weather Normal	2015 Weather Normal
kWh Change Y/Y	27,653,325	1,003,948	1,420,625		426,396	845,228	706,128	656,546	1,021,155
kW Change Y/Y	82,849	3,006	5,367		2,968	2,764	2,441	1,159	3,086
Average kWh Usage Change Y/Y	1,351	34	47		35	16	8	10	26
Average kW Usage Change Y/Y	4	0	0		0	0	0	(0)	0
Customer Change Y/Y %		0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
Lamp Change Y/Y %		4.20%	2.50%		-1.63%	2.15%	2.72%	3.15%	3.15%
Connection Change Y/Y %		1.10%	1.51%		-1.02%	1.70%	1.72%	1.39%	1.39%
kWh Change Y/Y %		3.63%	4.96%		1.44%	2.81%	2.28%	2.08%	3.16%
kW Change Y/Y %		3.63%	6.25%		3.36%	3.03%	2.60%	1.20%	3.16%
Average kWh Usage Change %		2.50%	3.40%		2.48%	1.10%	0.55%	0.68%	1.75%
Average kW Usage Change %		2.50%	4.67%		4.42%	1.31%	0.86%	-0.18%	1.75%
Embedded Distributor									
Customers	1	1		1	1	1	1	1	1
kWh	15,461,213	19,238,567		34,245,664	34,245,664	34,179,598	40,610,366	0	17,012,414
kW	35,602	39,665		84,901	84,901	77,646	95,660	0	40,073
Average kWh Usage	15,461,213	19,238,567		34,245,664	34,245,664	34,179,598	40,610,366	0	17,012,414
Average kW Usage	35,602	39,665		84,901	84,901	77,646	95,660	0	40,073
Customer Change Y/Y	1	-	-		-	-	-	-	-
kWh Change Y/Y	15,461,213	3,777,354	15,007,097		-	(66,066)	6,430,767	(40,610,366)	17,012,414
kW Change Y/Y	35,602	4,063	45,236		-	(7,254)	18,013	(95,660)	40,073
Average kWh Usage Change Y/Y		3,777,354	15,007,097		-	(66,066)	6,430,767	(40,610,366)	17,012,414
Average kW Usage Change Y/Y		4,063	45,236		-	(7,254)	18,013	(95,660)	40,073
Customer Change Y/Y %		0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
kWh Change Y/Y %		24.43%	78.01%		0.00%	-0.19%	18.81%	-100.00%	0.00%
kW Change Y/Y %		11.41%	114.05%		0.00%	-8.54%	23.20%	-100.00%	0.00%
Average kWh Usage Change %		24.43%	1.7801		0.00%	-0.19%	18.81%	-100.00%	0.00%
Average kW Usage Change %		11.41%	2.1405		0.00%	-8.54%	23.20%	-100.00%	0.00%
Distributed Generation									
Customers	0	0		0	1	6	19	43	68
kWh	0	0		0	1,736	14,519	49,624	113,715	178,816
Average kWh Usage	0	0		0	1,225	2,420	2,647	2,642	2,646
Customer Change Y/Y	-	-	1		1	5	13	24	25
kWh Change Y/Y	-	-	1,736		1,736	12,783	35,105	64,092	65,100
Average kWh Usage Change Y/Y	-	-	1,225.42		1,225	1,194	227	(5)	4
Customer Change Y/Y %	0.00%	0.00%	0.00%		0.00%	323.53%	212.50%	129.56%	57.02%
kWh Change Y/Y %	0.00%	0.00%	0.00%		0.00%	736.34%	241.78%	129.16%	57.25%
Average kWh Usage Change %	0.00%	0.00%	0.00%		0.00%	97.47%	9.37%	-0.17%	0.15%
Energy From Waste Generation									
Customers	1	1		1	1	1	1	1	1
kWh	-	-		-	-	-	-	-	-
kW	-	-		-	-	-	-	-	-
Average kWh Usage	-	-		-	-	-	-	-	-
Average kW Usage	-	-		-	-	-	-	-	-
Customer Change Y/Y	1	-	-		-	-	-	-	-
kWh Change Y/Y	-	-	-		-	-	-	-	-
kW Change Y/Y	-	-	-		-	-	-	-	-
Average kWh Usage Change Y/Y	-	-	-		-	-	-	-	-
Average kW Usage Change Y/Y	-	-	-		-	-	-	-	-
Customer Change Y/Y %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
kWh Change Y/Y %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
kW Change Y/Y %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Average kWh Usage Change %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Average kW Usage Change %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Back-up/Standby Power									
Customers	-	-		-	-	-	1	1	1

HOBNI Weather Normalized Historical and Forecasted Load, Customer and Connection for 2015 Rate Application

	2009 Weather Normalized	2010 Weather Normalized	2011 Actual vs 2010 Actual	2011 Board Approved	2011 Weather Normalized	2012 Weather Normalized	2013 Weather Normalized	2014 Weather Normal	2015 Weather Normal
kWh	-	-		-	-	-	-	-	-
kW	-	-		-	-	-	40,935	54,580	54,580
Average kWh Usage	-	-		-	-	-	-	-	-
Average kW Usage	-	-		-	-	-	40,935	54,580	54,580
Customer Change Y/Y	-	-	-	-	-	-	1	-	-
kWh Change Y/Y	-	-	-	-	-	-	-	-	-
kW Change Y/Y	-	-	-	-	-	-	40,935	13,645	-
Average kWh Usage Change Y/Y	-	-	-	-	-	-	-	-	-
Average kW Usage Change Y/Y	-	-	-	-	-	-	40,935	13,645	-
Customer Change Y/Y %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
kWh Change Y/Y %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
kW Change Y/Y %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%
Average kWh Usage Change %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Average kW Usage Change %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%
Total									
Customers	130,313	132,489	-	134,539	136,119	139,740	143,970	147,788	151,708
Connections	21,745	21,984	-	22,519	22,372	22,784	23,204	23,548	23,896
kWh	3,691,175,091	3,841,597,426	-	3,850,115,760	3,892,531,317	3,944,753,798	3,898,662,657	3,879,975,810	3,972,635,063
kW from applicable classes	5,767,053	5,837,751	-	5,891,393	5,895,836	5,965,656	5,995,498	5,823,957	5,864,284

<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Number of Customers</u>	<u>Population</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
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2004	Jan-04	318,825,772	849.1	0.0	101.59%	31	0	336	123,570	373,417	323,256,508	4,430,736	1.39%
2004	Feb-04	292,561,276	631.7	0.0	101.81%	29	0	320	124,466	374,833	297,579,548	5,018,272	1.72%
2004	Mar-04	304,403,356	487.3	0.0	102.02%	31	1	368	124,884	376,250	304,693,228	289,872	0.10%
2004	Apr-04	280,729,504	331.5	0.0	102.24%	30	1	336	125,343	377,667	285,947,436	5,217,932	1.86%
2004	May-04	284,754,157	158.9	8.6	102.45%	31	1	320	125,702	379,083	285,197,202	443,045	0.16%
2004	Jun-04	296,130,055	44.2	31.6	102.67%	36	0	352	126,445	380,500	295,492,226	-637,829	-0.22%
2004	Jul-04	316,526,152	3.6	86.4	102.89%	31	0	336	126,961	381,917	324,891,609	8,365,458	2.64%
2004	Aug-04	311,532,144	12.8	59.6	103.11%	31	0	336	127,757	383,333	312,327,729	795,584	0.26%
2004	Sep-04	300,510,639	30.0	41.2	103.32%	30	1	336	128,704	384,750	292,993,511	-7,517,128	-2.50%
2004	Oct-04	288,181,524	226.3	1.5	103.54%	31	1	320	129,339	386,167	287,417,327	-764,197	-0.27%
2004	Nov-04	296,760,230	379.1	0.0	103.76%	31	1	352	130,303	387,583	294,142,028	-2,618,202	-0.88%
2004	Dec-04	315,819,546	643.4	0.0	103.98%	30	0	336	130,956	389,000	317,465,802	1,646,256	0.52%
2005	Jan-05	329,967,591	770.0	0.0	104.22%	31	0	320	131,351	391,000	322,332,365	-7,635,226	-2.31%
2005	Feb-05	293,588,958	616.4	0.0	104.45%	28	0	320	131,775	393,000	296,846,870	3,257,912	1.11%
2005	Mar-05	313,508,514	608.6	0.0	104.69%	31	1	352	132,095	395,000	314,832,142	1,323,628	0.42%
2005	Apr-05	285,449,756	306.8	0.0	104.93%	30	1	336	132,548	397,000	290,974,281	5,524,525	1.94%
2005	May-05	287,810,113	189.4	0.8	105.17%	31	1	336	132,946	399,000	291,837,230	4,027,117	1.40%
2005	Jun-05	354,566,496	8.9	146.3	105.41%	30	0	352	133,426	401,000	357,897,335	3,330,838	0.94%
2005	Jul-05	365,920,796	0.0	188.7	105.65%	31	0	320	133,937	403,000	380,338,447	14,417,651	3.94%
2005	Aug-05	358,835,199	0.2	140.7	105.89%	31	0	352	134,411	405,000	361,915,590	3,080,391	0.86%
2005	Sep-05	314,383,694	22.6	52.1	106.13%	30	1	336	135,185	407,000	305,243,056	-9,140,638	-2.91%
2005	Oct-05	304,341,532	220.2	7.6	106.37%	31	1	320	135,713	409,000	297,474,808	-6,866,724	-2.26%
2005	Nov-05	311,009,155	388.4	0.0	106.61%	30	1	352	136,467	411,000	302,143,892	-8,865,263	-2.85%
2005	Dec-05	329,446,542	665.3	0.0	106.85%	31	0	320	136,843	413,000	323,839,412	-5,607,131	-1.70%
2006	Jan-06	329,248,077	551.8	0.0	107.07%	31	0	336	137,418	414,667	320,856,987	-8,391,090	-2.55%
2006	Feb-06	304,825,405	604.3	0.0	107.29%	28	0	320	137,684	416,333	303,756,021	-1,069,383	-0.35%
2006	Mar-06	325,241,932	516.6	0.0	107.50%	31	1	368	138,077	418,000	319,907,782	-5,334,149	-1.64%
2006	Apr-06	289,070,045	293.3	0.0	107.72%	30	1	304	138,376	419,667	292,636,818	3,566,773	1.23%
2006	May-06	310,032,606	136.9	26.0	107.94%	31	1	352	138,710	421,333	311,585,306	1,552,700	0.50%
2006	Jun-06	333,895,801	19.5	73.6	108.15%	30	0	352	138,913	423,000	329,304,588	-4,591,213	-1.38%
2006	Jul-06	371,225,703	0.0	167.3	108.37%	31	0	320	139,218	424,667	376,958,394	5,732,691	1.54%
2006	Aug-06	353,706,210	4.2	101.6	108.59%	31	0	352	139,677	426,333	349,772,149	-3,934,061	-1.11%
2006	Sep-06	298,103,405	80.9	12.9	108.81%	30	1	320	140,113	428,000	293,460,374	-4,643,031	-1.56%
2006	Oct-06	307,942,171	288.3	1.1	109.03%	31	1	336	140,876	429,667	307,492,573	-449,598	-0.15%
2006	Nov-06	312,999,806	382.2	0.0	109.25%	30	1	352	141,076	431,333	309,110,545	-3,889,260	-1.24%
2006	Dec-06	317,982,954	500.5	0.0	109.47%	31	0	304	141,291	433,000	319,861,537	1,878,584	0.59%
2007	Jan-07	332,533,628	647.1	0.0	109.65%	31	0	352	141,799	434,417	335,592,396	3,058,768	0.92%
2007	Feb-07	318,174,492	740.1	0.0	109.82%	28	0	320	142,119	435,833	317,968,244	-206,249	-0.06%
2007	Mar-07	330,329,411	546.7	0.0	110.00%	31	1	352	142,417	437,250	325,909,201	-4,420,210	-1.34%
2007	Apr-07	301,193,988	356.4	0.0	110.18%	30	1	320	142,744	438,667	305,276,762	4,082,774	1.36%
2007	May-07	313,881,665	136.4	22.4	110.36%	31	1	352	143,194	440,083	316,349,932	2,468,267	0.79%
2007	Jun-07	352,305,947	16.5	99.2	110.53%	30	0	336	143,586	441,500	345,883,845	-6,422,103	-1.82%
2007	Jul-07	350,987,926	3.2	106.1	110.71%	31	0	336	144,178	442,917	355,032,741	4,044,815	1.15%
2007	Aug-07	363,680,291	5.2	141.0	110.89%	31	0	352	144,838	444,333	375,549,146	11,868,856	3.26%
2007	Sep-07	320,412,436	36.9	47.5	111.07%	30	1	304	145,264	445,750	311,794,061	-8,618,374	-2.69%
2007	Oct-07	318,245,128	137.7	19.8	111.25%	31	1	352	146,037	447,167	317,081,825	-1,163,303	-0.37%
2007	Nov-07	323,515,779	462.5	0.0	111.43%	30	1	352	146,813	448,583	318,653,941	-4,861,838	-1.50%
2007	Dec-07	333,331,077	630.7	0.0	111.61%	31	0	304	147,458	450,000	331,739,562	-1,591,514	-0.48%
2008	Jan-08	344,575,662	623.5	0.0	111.55%	31	0	352	147,966	451,250	338,613,261	-5,962,401	-1.73%
2008	Feb-08	326,113,372	674.7	0.0	111.49%	29	0	320	148,406	452,500	324,020,970	-2,092,402	-0.64%
2008	Mar-08	331,077,485	610.2	0.0	111.43%	31	1	304	148,695	453,750	324,535,521	-6,541,964	-1.98%
2008	Apr-08	303,230,329	253.9	0.0	111.37%	30	1	352	149,036	455,000	306,974,049	3,743,720	1.23%
2008	May-08	301,056,523	193.5	2.5	111.31%	31	1	336	149,376	456,250	308,290,857	7,234,334	2.40%
2008	Jun-08	334,428,490	22.7	71.5	111.25%	30	0	336	149,525	457,500	333,112,294	-1,316,197	-0.39%
2008	Jul-08	363,118,367	1.0	111.0	111.19%	31	0	352	149,860	458,750	360,107,364	-3,011,002	-0.83%
2008	Aug-08	341,326,026	12.7	64.0	111.13%	31	0	320	150,043	460,000	331,915,564	-9,410,463	-2.76%
2008	Sep-08	317,499,538	59.0	26.7	111.08%	30	1	336	150,235	461,250	306,622,603	-10,876,935	-3.43%
2008	Oct-08	310,230,042	278.6	0.0	111.02%	31	1	352	150,639	462,500	313,111,905	2,881,864	0.93%
2008	Nov-08	313,840,850	451.6	0.0	110.96%	30	1	304	150,967	463,750	308,507,179	-5,333,670	-1.70%
2008	Dec-08	328,946,880	654.6	0.0	110.90%	31	0	336	151,156	465,000	335,489,355	6,542,475	1.99%
2009	Jan-09	340,125,286	830.2	0.0	110.59%	31	0	336	151,358	467,667	344,006,863	3,881,577	1.14%
2009	Feb-09	298,423,228	606.4	0.0	110.29%	28	0	304	151,427	470,333	308,372,597	9,949,369	3.33%
2009	Mar-09	317,878,968	533.8	0.0	109.99%	31	1	352	151,559	473,000	323,977,423	6,098,455	1.92%
2009	Apr-09	288,048,157	305.8	1.2	109.69%	30	1	320	151,619	475,667	300,738,469	12,690,313	4.41%
2009	May-09	279,549,261	158.8	6.9	109.39%	31	1	320	151,734	478,333	301,072,690	21,523,429	7.70%
2009	Jun-09	301,280,403	49.3	34.2	109.09%	30	0	352	151,834	481,000	312,635,185	11,354,782	3.77%
2009	Jul-09	312,634,481	6.2	43.7	108.79%	31	0	352	152,017	483,667	320,362,110	7,727,629	2.47%
2009	Aug-09	342,969,587	9.8	91.0	108.49%	31	0	320	152,184	486,333	338,530,712	-4,438,875	-1.29%
2009	Sep-09	305,441,230	55.2	20.9	108.20%	30	1	336	152,275	489,000	296,149,815	-9,291,415	-3.04%
2009	Oct-09	307,520,270	287.8	0.0	107.90%	31	1	336	152,458	491,667	303,218,481	-4,301,789	-1.40%
2009	Nov-09	303,012,736	361.2	0.0	107.60%	30	1	320	152,600	494,333	297,848,786	-5,163,950	-1.70%
2009	Dec-09	331,058,361	631.3	0.0	107.31%	31	0	352	152,791	497,000	327,793,369	-3,264,992	-0.99%

				Cooling Degree	Ontario Real GDP	Number of Days in		Number of Peak	Number of					
	Purchased	Heating Degree Days		Days	Monthly %	Month	Spring Fall Flag	Hours	Customers	Population	Predicted Purchases	Variances (kWh)	% Variance	
Jan-10	338,841,930	720.0	0.0	107.57%	31	0	320	152,971	497,583	328,193,773	-10,648,157	-3.14%		
Feb-10	307,563,620	598.3	0.0	107.83%	28	0	304	153,108	498,167	301,970,568	-5,593,052	-1.82%		
Mar-10	317,385,709	422.8	0.0	108.09%	31	1	368	153,432	498,750	316,071,862	-1,313,847	-0.41%		
Apr-10	288,580,435	225.1	0.0	108.35%	30	1	320	153,606	499,333	292,783,211	4,202,776	1.46%		
May-10	317,160,058	107.9	45.7	108.62%	31	1	320	153,766	499,917	316,287,859	-872,199	-0.28%		
Jun-10	327,911,313	21.7	58.7	108.88%	30	0	352	154,026	500,500	323,343,789	-4,567,524	-1.39%		
Jul-10	387,084,558	1.8	164.9	109.15%	31	0	336	154,334	501,083	379,832,604	-7,251,954	-1.87%		
Aug-10	372,085,384	2.1	138.8	109.41%	31	0	336	154,779	501,667	367,371,798	-4,713,586	-1.27%		
Sep-10	309,880,175	78.2	31.5	109.68%	30	1	336	155,109	502,250	306,818,874	-3,061,300	-0.99%		
Oct-10	301,944,347	241.6	0.0	109.94%	31	1	320	155,544	502,833	303,782,368	1,838,021	0.61%		
Nov-10	309,107,401	405.3	0.0	110.21%	30	1	336	155,939	503,417	309,635,000	527,600	0.17%		
Dec-10	333,509,214	676.2	0.0	110.48%	31	0	368	156,272	504,000	341,070,565	7,561,351	2.27%		
Jan-11	346,157,898	775.3	0.0	110.64%	31	0	320	156,635	505,659	339,224,020	-6,933,878	-2.00%		
Feb-11	312,406,685	654.2	0.0	110.80%	28	0	304	156,847	507,319	312,794,142	387,457	0.12%		
Mar-11	334,049,130	572.8	0.0	110.97%	31	1	368	157,135	508,978	331,687,166	-2,361,964	-0.71%		
Apr-11	299,909,526	332.3	0.0	111.13%	30	1	304	157,417	510,637	303,359,313	3,449,787	1.15%		
May-11	308,520,842	134.1	13.0	111.30%	31	1	336	157,766	512,296	310,884,812	2,363,970	0.77%		
Jun-11	331,406,120	19.0	52.2	111.47%	30	0	352	158,225	513,956	326,764,175	-4,641,945	-1.40%		
Jul-11	399,276,724	0.0	198.6	111.63%	31	0	320	158,541	515,615	400,767,301	1,490,577	0.37%		
Aug-11	367,773,295	0.0	122.2	111.80%	31	0	352	158,871	517,274	367,879,591	106,296	0.03%		
Sep-11	313,781,747	48.2	39.7	111.96%	30	1	336	159,293	518,933	315,539,950	1,758,202	0.56%		
Oct-11	312,095,897	235.5	2.4	112.13%	31	1	336	159,764	520,593	313,140,119	1,044,222	0.33%		
Nov-11	314,340,389	342.1	0.0	112.30%	30	1	352	160,172	522,252	314,536,671	196,282	0.06%		
Dec-11	328,784,347	534.0	0.0	112.46%	31	0	336	160,422	523,911	334,050,262	5,265,916	1.60%		
Jan-12	342,744,742	611.1	0.0	112.60%	31	0	336	160,564	525,085	338,570,807	-4,173,935	-1.22%		
Feb-12	317,435,425	531.7	0.0	112.74%	29	0	320	160,858	526,259	320,213,348	2,777,922	0.88%		
Mar-12	3													

Regression Model # One

	<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Number of Customers</u>	<u>Population</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
	Actual	Predicted	Variance (kWh)	Variace %								
2001												
2002												
2003												
2004	3,606,734,355	3,621,404,154	-14,669,799	-0.41%								
2005	3,848,828,345	3,845,675,427	3,152,918	0.08%								
2006	3,854,274,114	3,834,703,075	19,571,039	0.51%								
2007	3,958,591,768	3,956,831,657	1,760,110	0.04%								
2008	3,915,443,564	3,891,300,923	24,142,641	0.62%								
2009	3,727,941,968	3,774,706,501	-46,764,532	-1.25%								
2010	3,911,054,142	3,887,162,270	23,891,873	0.61%								
2011	3,968,502,600	3,970,627,522	-2,124,922	-0.05%								
2012	4,043,243,029	4,042,451,779	791,250	0.02%								
2013	4,027,156,664	4,036,907,241	-9,750,577	-0.24%								
2014		4,109,930,415										
2015		4,198,169,658										
Total	38,861,770,550	38,861,770,550	0									

SUMMARY OUTPUT

Regression Statistics								
Multiple R	97.40%							
R Square	94.87%							
Adjusted R Square	94.50%							
Standard Error	5,857,326.90							
Observations	120							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	8	7.04483E+16	8.80603E+15	256.67	0.0000			
Residual	111	3.80822E+15	3.43083E+13					
Total	119	7.42565E+16						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	(235,145,122)	37,496,163	(6.2712)	0.0000	(309,446,270)	(160,843,973)	-309446269.8	-160843973.3
Heating Degree Days	52,994	3,604	14.7027	0.0000	45,851	60,136	45851.30664	60135.75589
Cooling Degree Days	502,492	20,823	24.1313	0.0000	461,229	543,754	461229.1385	543754.3597
Ontario Real GDP Monthly %	293,904,594	61,943,324	4.7447	0.0000	171,159,765	416,649,422	171159765	416649422.4
Number of Days in Month	6,003,193	737,303	8.1421	0.0000	4,542,178	7,464,209	4542177.727	7464208.702
Spring Fall Flag	(5,352,070)	1,523,558	(3.5129)	0.0006	(8,371,102)	(2,333,037)	-8371102.048	-2333037.482
Number of Peak Hours	157,282	33,500	4.6949	0.0000	90,898	223,665	90898.19553	223664.9761
Number of Customers	(406)	658	(0.6172)	0.5383	(1,709)	897	-1709.295493	897.3439245
Population	70	120	0.5805	0.5627	(168)	308	-168.3273385	307.8183463

Regression Model # Two

		<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree</u>	<u>Ontario Real GDP</u>	<u>Number of Days in</u>		<u>Number of Peak</u>	<u>Predicted</u>	<u>Variances</u>	
				<u>Days</u>	<u>Monthly %</u>	<u>Month</u>		<u>Hours</u>	<u>Purchases</u>	<u>(kWh)</u>	<u>% Variance</u>
2004	Jan-04	318,825,772	849.1	0.0	101.59%	31	0	336	322,566,086	3,740,314	1.17%
2004	Feb-04	292,561,276	631.7	0.0	101.81%	29	0	320	297,085,243	4,523,967	1.55%
2004	Mar-04	304,403,356	487.3	0.0	102.02%	31	1	368	304,265,659	-137,697	-0.05%
2004	Apr-04	280,729,504	331.5	0.0	102.24%	30	1	336	285,495,873	4,766,369	1.70%
2004	May-04	284,754,157	158.9	8.6	102.45%	31	1	320	284,672,702	-81,455	-0.03%
2004	Jun-04	296,130,055	44.2	31.6	102.67%	30	0	352	295,129,456	-1,000,599	-0.34%
2004	Jul-04	316,526,152	3.6	86.4	102.89%	31	0	336	324,594,235	8,068,084	2.55%
2004	Aug-04	311,532,144	12.8	59.6	103.11%	31	0	336	312,132,834	600,690	0.19%
2004	Sep-04	300,510,639	30.0	41.2	103.32%	30	1	336	293,054,847	-7,455,792	-2.48%
2004	Oct-04	288,181,524	226.3	1.5	103.54%	31	1	320	287,458,769	-722,755	-0.25%
2004	Nov-04	296,760,230	379.1	0.0	103.76%	30	1	352	294,465,755	-2,294,475	-0.77%
2004	Dec-04	315,819,546	643.4	0.0	103.98%	31	0	336	317,781,813	1,962,267	0.62%
2005	Jan-05	329,967,591	770.0	0.0	104.22%	31	0	320	322,562,831	-7,404,760	-2.24%
2005	Feb-05	293,588,958	616.4	0.0	104.45%	28	0	320	297,080,549	3,491,591	1.19%
2005	Mar-05	313,508,514	608.6	0.0	104.69%	31	1	352	315,004,229	1,495,716	0.48%
2005	Apr-05	285,449,756	306.8	0.0	104.93%	30	1	336	291,087,959	5,638,203	1.98%
2005	May-05	287,810,113	189.4	0.8	105.17%	31	1	336	291,857,925	4,047,813	1.41%
2005	Jun-05	354,566,496	8.9	146.3	105.41%	30	0	352	358,083,558	3,517,062	0.99%
2005	Jul-05	365,920,796	0.0	188.7	105.65%	31	0	320	380,498,201	14,577,405	3.98%
2005	Aug-05	358,835,199	0.2	140.7	105.89%	31	0	352	362,011,581	3,176,382	0.89%
2005	Sep-05	314,383,694	22.6	52.1	106.13%	30	1	336	305,347,038	-9,036,656	-2.87%
2005	Oct-05	304,341,532	220.2	7.6	106.37%	31	1	320	297,459,139	-6,882,393	-2.26%
2005	Nov-05	311,009,155	388.4	0.0	106.61%	30	1	352	302,267,112	-8,742,043	-2.81%
2005	Dec-05	329,446,542	665.3	0.0	106.85%	31	0	320	323,770,822	-5,675,720	-1.72%
2006	Jan-06	329,248,077	551.8	0.0	107.07%	31	0	336	320,843,143	-8,404,933	-2.55%
2006	Feb-06	304,825,405	604.3	0.0	107.29%	28	0	320	303,697,644	-1,127,761	-0.37%
2006	Mar-06	325,241,932	516.6	0.0	107.50%	31	1	368	319,868,811	-5,373,121	-1.65%
2006	Apr-06	289,070,045	293.3	0.0	107.72%	30	1	304	292,442,557	3,372,512	1.17%
2006	May-06	310,032,606	136.9	26.0	107.94%	31	1	352	311,408,478	1,375,872	0.44%
2006	Jun-06	333,895,801	19.5	73.6	108.15%	30	0	352	329,043,828	-4,851,974	-1.45%
2006	Jul-06	371,225,703	0.0	167.3	108.37%	31	0	320	376,696,128	5,470,425	1.47%
2006	Aug-06	353,706,210	4.2	101.6	108.59%	31	0	352	349,444,927	-4,261,283	-1.20%
2006	Sep-06	298,103,405	80.9	12.9	108.81%	30	1	320	293,014,176	-5,089,229	-1.71%
2006	Oct-06	307,942,171	288.3	1.1	109.03%	31	1	336	307,149,529	-792,642	-0.26%
2006	Nov-06	312,999,806	382.2	0.0	109.25%	30	1	352	308,696,878	-4,302,928	-1.37%
2006	Dec-06	317,982,954	500.5	0.0	109.47%	31	0	304	319,192,815	1,209,862	0.38%
2007	Jan-07	332,533,628	647.1	0.0	109.65%	31	0	352	335,039,821	2,506,194	0.75%
2007	Feb-07	318,174,492	740.1	0.0	109.82%	28	0	320	317,403,691	-770,801	-0.24%
2007	Mar-07	330,329,411	546.7	0.0	110.00%	31	1	352	325,330,134	-4,999,276	-1.51%
2007	Apr-07	301,193,988	356.4	0.0	110.18%	30	1	320	304,633,180	3,439,192	1.14%
2007	May-07	313,881,665	136.4	22.4	110.36%	31	1	352	315,771,969	1,890,304	0.60%
2007	Jun-07	352,305,947	16.5	99.2	110.53%	30	0	336	345,351,571	-6,954,376	-1.97%
2007	Jul-07	350,987,926	3.2	106.1	110.71%	31	0	336	354,563,130	3,575,204	1.02%
2007	Aug-07	363,680,291	5.2	141.0	110.89%	31	0	352	375,257,208	11,576,917	3.18%
2007	Sep-07	320,412,436	36.9	47.5	111.07%	30	1	304	311,379,425	-9,033,011	-2.82%
2007	Oct-07	318,245,128	137.7	19.8	111.25%	31	1	352	316,824,415	-1,420,713	-0.45%
2007	Nov-07	323,515,779	462.5	0.0	111.43%	30	1	352	318,550,645	-4,965,134	-1.53%
2007	Dec-07	333,331,077	630.7	0.0	111.61%	31	0	304	331,590,105	-1,740,972	-0.52%
2008	Jan-08	344,575,662	623.5	0.0	111.55%	31	0	352	338,674,001	-5,901,662	-1.71%
2008	Feb-08	326,113,372	674.7	0.0	111.49%	29	0	320	324,195,281	-1,918,091	-0.59%
2008	Mar-08	331,077,485	610.2	0.0	111.43%	31	1	304	324,750,582	-6,326,903	-1.91%
2008	Apr-08	303,230,329	253.9	0.0	111.37%	30	1	352	307,338,960	4,108,631	1.35%
2008	May-08	301,056,523	193.5	2.5	111.31%	31	1	336	308,685,046	7,628,523	2.53%
2008	Jun-08	334,428,490	22.7	71.5	111.25%	30	0	336	333,563,819	-864,671	-0.26%
2008	Jul-08	363,118,367	1.0	111.0	111.19%	31	0	352	360,689,641	-2,428,726	-0.67%
2008	Aug-08	341,326,026	12.7	64.0	111.13%	31	0	320	332,390,850	-8,935,176	-2.62%
2008	Sep-08	317,499,538	59.0	26.7	111.08%	30	1	336	307,158,766	-10,340,772	-3.26%
2008	Oct-08	310,230,042	278.6	0.0	111.02%	31	1	352	313,717,101	3,487,059	1.12%
2008	Nov-08	313,840,850	451.6	0.0	110.96%	30	1	304	309,140,542	-4,700,308	-1.50%
2008	Dec-08	328,946,880	654.6	0.0	110.90%	31	0	336	336,109,476	7,162,596	2.18%
2009	Jan-09	340,125,286	830.2	0.0	110.59%	31	0	336	344,644,224	4,518,938	1.33%
2009	Feb-09	298,423,228	606.4	0.0	110.29%	28	0	304	308,976,199	10,552,970	3.54%
2009	Mar-09	317,878,968	533.8	0.0	109.99%	31	1	352	324,619,723	6,740,755	2.12%
2009	Apr-09	288,048,157	305.8	1.2	109.69%	30	1	320	301,300,510	13,252,353	4.60%
2009	May-09	279,549,261	158.8	6.9	109.39%	31	1	320	301,588,742	22,039,482	7.88%
2009	Jun-09	301,280,403	49.3	34.2	109.09%	30	0	352	313,165,263	11,884,861	3.94%
2009	Jul-09	312,634,481	6.2	43.7	108.79%	31	0	352	320,883,252	8,248,771	2.64%
2009	Aug-09	342,969,587	9.8	91.0	108.49%	31	0	320	339,071,194	-3,898,393	-1.14%
2009	Sep-09	305,441,230	55.2	20.9	108.20%	30	1	336	296,650,790	-8,790,440	-2.88%
2009	Oct-09	307,520,270	287.8	0.0	107.90%	31	1	336	303,675,065	-3,845,205	-1.25%
2009	Nov-09	303,012,736	361.2	0.0	107.60%	30	1	320	298,289,938	-4,722,798	-1.56%
2009	Dec-09	331,058,361	631.3	0.0	107.31%	31	0	352	328,214,253	-2,844,107	-0.86%

Regression Model # Two

				Cooling Degree		Ontario Real GDP	Number of Days in		Number of Peak	Predicted	Variances	
		Purchased	Heating Degree Days	Days		Monthly %	Month	Spring Fall Flag	Hours	Purchases	(kWh)	% Variance
2010	Jan-10	338,841,930	720.0	0.0		107.57%	31	0	320	328,506,982	-10,334,948	-3.05%
2010	Feb-10	307,563,620	598.3	0.0		107.83%	28	0	304	302,238,491	-5,325,129	-1.73%
2010	Mar-10	317,385,709	422.8	0.0		108.09%	31	1	368	316,408,882	-976,827	-0.31%
2010	Apr-10	288,580,435	225.1	0.0		108.35%	30	1	320	292,996,525	4,416,090	1.53%
2010	May-10	317,160,058	107.9	45.7		108.62%	31	1	320	316,469,068	-690,990	-0.22%
2010	Jun-10	327,911,313	21.7	58.7		108.88%	30	0	352	323,517,281	-4,394,032	-1.34%
2010	Jul-10	387,084,558	1.8	164.9		109.15%	31	0	336	380,106,159	-6,978,399	-1.80%
2010	Aug-10	372,085,384	2.1	138.8		109.41%	31	0	336	367,646,482	-4,438,902	-1.19%
2010	Sep-10	309,880,175	78.2	31.5		109.68%	30	1	336	307,007,694	-2,872,480	-0.93%
2010	Oct-10	301,944,347	241.6	0.0		109.94%	31	1	320	303,921,467	1,977,121	0.65%
2010	Nov-10	309,107,401	405.3	0.0		110.21%	30	1	336	309,845,392	737,992	0.24%
2010	Dec-10	333,509,214	676.2	0.0		110.48%	31	0	368	341,252,747	7,743,533	2.32%
2011	Jan-11	346,157,898	775.3	0.0		110.64%	31	0	320	339,311,428	-6,846,470	-1.98%
2011	Feb-11	312,406,685	654.2	0.0		110.80%	28	0	304	312,827,642	420,957	0.13%
2011	Mar-11	334,049,130	572.8	0.0		110.97%	31	1	368	331,740,510	-2,308,620	-0.69%
2011	Apr-11	299,909,526	332.3	0.0		111.13%	30	1	304	303,269,660	3,360,134	1.12%
2011	May-11	308,520,842	134.1	13.0		111.30%	31	1	336	310,794,299	2,273,458	0.74%
2011	Jun-11	331,406,120	19.0	52.2		111.47%	30	0	352	326,724,104	-4,682,016	-1.41%
2011	Jul-11	399,276,724	0.0	198.6		111.63%	31	0	320	400,830,067	1,553,343	0.39%
2011	Aug-11	367,773,295	0.0	122.2		111.80%	31	0	352	367,828,914	55,618	0.02%
2011	Sep-11	313,781,747	48.2	39.7		111.96%	30	1	336	315,416,112	1,634,365	0.52%
2011	Oct-11	312,095,897	235.5	2.4		112.13%	31	1	336	312,958,517	862,620	0.28%
2011	Nov-11	314,340,389	342.1	0.0		112.30%	30	1	352	314,388,348	47,959	0.02%
2011	Dec-11	328,784,347	534.0	0.0		112.46%	31	0	336	333,730,275	4,945,928	1.50%
2012	Jan-12	342,744,742	611.1	0.0		112.60%	31	0	336	338,177,224	-4,567,518	-1.33%
2012	Feb-12	317,435,425	531.7	0.0		112.74%	29	0	320	319,822,646	2,387,220	0.75%
2012	Mar-12	323,010,362	349.4	0.2		112.88%	31	1	352	322,361,072	-649,290	-0.20%
2012	Apr-12	301,644,611	321.7	0.0		113.02%	30	1	320	310,090,261	8,445,650	2.80%
2012	May-12	326,399,579	80.7	36.7		113.16%	31	1	352	327,225,742	826,163	0.25%
2012	Jun-12	357,950,417	23.2	101.6		113.30%	30	0	336	354,019,955	-3,930,462	-1.10%
2012	Jul-12	407,476,192	0.0	195.4		113.45%	31	0	352	408,946,490	1,470,297	0.36%
2012	Aug-12	375,206,978	2.0	112.1		113.59%	30	0	352	367,430,097	-7,776,881	-2.07%
2012	Sep-12	319,835,103	85.0	35.6		113.73%	31	1	304	314,743,075	-5,092,028	-1.59%
2012	Oct-12	318,167,447	242.5	1.1		113.87%	31	1	352	319,669,626	1,502,179	0.47%
2012	Nov-12	324,129,468	434.0	0.0		114.01%	30	1	352	323,652,581	-476,887	-0.15%
2012	Dec-12	329,242,704	533.5	0.0		114.15%	31	0	304	332,949,654	3,706,950	1.13%
2013	Jan-13	348,513,720	624.4	0.0		114.27%	31	0	352	345,704,152	-2,809,568	-0.81%
2013	Feb-13	317,590,943	631.5	0.0		114.40%	28	0	304	320,833,979	3,243,035	1.02%
2013	Mar-13	333,368,808	554.8	0.0		114.52%	31	1	320	332,270,868	-1,097,940	-0.33%
2013	Apr-13	312,277,396	358.6	0.0		114.64%	30	1	352	321,279,306	9,001,910	2.88%
2013	May-13	320,170,213	109.1	23.1		114.77%	31	1	352	325,987,354	5,817,141	1.82%
2013	Jun-13	335,997,920	33.4	59.3		114.89%	30	0	320	334,768,615	-1,229,306	-0.37%
2013	Jul-13	385,395,998	1.4	133.3		115.01%	31	0	352	381,745,227	-3,650,771	-0.95%
2013	Aug-13	362,278,437	4.6	93.2		115.14%	31	0	336	359,482,438	-2,795,999	-0.77%
2013	Sep-13	318,477,237	89.6	28.0		115.26%	30	1	320	317,632,070	-845,167	-0.27%
2013	Oct-13	318,760,032	224.2	0.0		115.39%	31	1	352	322,036,921	3,276,889	1.03%
2013	Nov-13	329,707,415	478.3	0.0		115.51%	30	1	336	327,310,938	-2,396,477	-0.73%
2013	Dec-13	344,618,546	687.7	0.0		115.64%	31	0	320	347,471,571	2,853,026	0.83%
2014	Jan-14		700.3	0.0		115.84%	31	0	352	353,729,998	353,729,998	
2014	Feb-14		628.9	0.0		116.04%	28	0	304	324,900,077	324,900,077	
2014	Mar-14		520.3	0.0		116.24%	31	1	320	334,853,447	334,853,447	
2014	Apr-14		308.5	0.1		116.44%	30	1	352	323,287,422	323,287,422	
2014	May-14		140.6	18.6		116.64%	31	1	336	327,637,222	327,637,222	
2014	Jun-14		25.8	72.8		116.84%	30	0	336	348,726,244	348,726,244	
2014	Jul-14		1.7	139.5		117.05%	31	0	352	390,114,165	390,114,165	
2014	Aug-14		5.4	106.4		117.25%	31	0	320	369,055,762	369,055,762	
2014	Sep-14		58.6	33.6		117.45%	30	1	336	326,965,529	326,965,529	
2014	Oct-14		238.3	3.4		117.66%	31	1	352	330,287,961	330,287,961	
2014	Nov-14		408.5	0.0		117.86%	30	1	320	327,088,715	327,088,715	
2014	Dec-14		615.7	0.0		118.06%	31	0	336	352,419,127	352,419,127	
2015	Jan-15		700.3	0.0		118.31%	31	0	336	357,525,642	357,525,642	
2015	Feb-15		628.9	0.0		118.55%	28	0	304	331,345,204	331,345,204	
2015	Mar-15		520.3	0.0		118.79%	31	1	352	346,487,936	346,487,936	
2015	Apr-15		308.5	0.1		119.04%	30	1	336	327,414,241	327,414,241	
2015	May-15		140.6	18.6		119.28%	31	1	320	331,875,226	331,875,226	
2015	Jun-15		25.8	72.8		119.53%	30	0	352	358,154,800	358,154,800	
2015	Jul-15		1.7	139.5		119.78%	31	0	352	397,115,217	397,115,217	
2015	Aug-15		5.4	106.4		120.02%	31	0	320	376,169,194	376,169,194	
2015	Sep-15		58.6	33.6		120.27%	30	1	336	334,191,744	334,191,744	
2015	Oct-15		238.3	3.4		120.52%	31	1	336	335,087,875	335,087,875	
2015	Nov-15		408.5	0.0		120.77%	30	1	336	337,081,188	337,081,188	
2015	Dec-15		615.7	0.0		121.02%	31	0	352	362,525,593	362,525,593	
			Weather Normalized									

Regression Model # Two

<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
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	Actual	Predicted	Variance (kWh)	Variance %
2001				
2002				
2003				
2004	3,606,734,355	3,618,703,271	-11,968,916	-0.33%
2005	3,848,828,345	3,847,030,944	1,797,401	0.05%
2006	3,854,274,114	3,831,498,914	22,775,200	0.59%
2007	3,958,591,768	3,951,695,295	6,896,473	0.17%
2008	3,915,443,564	3,896,414,064	19,029,500	0.49%
2009	3,727,941,968	3,781,079,154	-53,137,186	-1.43%
2010	3,911,054,142	3,889,917,169	21,136,973	0.54%
2011	3,968,502,600	3,969,819,877	-1,317,277	-0.03%
2012	4,043,243,029	4,039,088,423	4,154,606	0.10%
2013	4,027,156,664	4,036,523,438	-9,366,774	-0.23%
2014		4,109,065,670		
2015		4,194,973,860		

Total	38,861,770,550	38,861,770,550	0
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SUMMARY OUTPUT

Regression Statistics	
Multiple R	97.39%
R Square	94.85%
Adjusted R Square	94.58%
Standard Error	5,815,931.18
Observations	120

ANOVA					
	df	SS	MS	F	Significance F
Regression	6	7.04342E+16	1.1739E+16	347.05	0.0000
Residual	113	3.82223E+15	3.38251E+13		
Total	119	7.42565E+16			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	(221,662,899)	26,885,886	(8.2446)	0.0000	(274,928,686)	(168,397,111)	-274928686.4	-168397111
Heating Degree Days	53,035	3,575	14.8354	0.0000	45,952	60,117	45952.43392	60117.49593
Cooling Degree Days	504,004	20,539	24.5387	0.0000	463,312	544,696	463312.2633	544695.8085
Ontario Real GDP Monthly %	256,369,295	15,310,538	16.7446	0.0000	226,036,359	286,702,231	226036359.3	286702230.8
Number of Days in Month	5,981,256	731,227	8.1798	0.0000	4,532,564	7,429,948	4532564.374	7429947.605
Spring Fall Flag	(5,294,424)	1,509,855	(3.5066)	0.0007	(8,285,720)	(2,303,129)	-8285719.738	-2303128.771
Number of Peak Hours	158,718	33,182	4.7833	0.0000	92,978	224,457	92978.33	224457.3571

Heating Degree Days and Cooling Degree Days Data

10 Year Average - 2004 to 2013		
Month	HDD	CDD
Jan	700.25	-
Feb	628.93	-
Mar	520.30	0.02
Apr	308.54	0.12
May	140.57	18.57
Jun	25.84	72.82
Jul	1.72	139.54
Aug	5.36	106.42
Sep	58.56	33.61
Oct	238.27	3.35
Nov	408.47	-
Dec	615.72	-
Total	3,652.53	374.45

10 Year Average - 1994 to 2013		
Month	HDD	CDD
Jan	730.15	-
Feb	622.71	-
Mar	548.00	-
Apr	342.65	1.26
May	162.83	11.20
Jun	32.07	67.92
Jul	5.25	118.59
Aug	7.41	102.32
Sep	70.74	34.16
Oct	250.81	1.92
Nov	423.04	-
Dec	601.84	-
Total	3,797.50	337.37

20 Year Average - 1994 to 2013		
Month	HDD	CDD
Jan	715.20	-
Feb	625.82	-
Mar	534.15	0.01
Apr	325.60	0.69
May	151.70	14.89
Jun	28.96	70.37
Jul	3.49	129.07
Aug	6.39	104.37
Sep	64.65	33.89
Oct	244.54	2.64
Nov	415.76	-
Dec	608.78	-
Total	3,725.02	355.91

Regression Model Using 20 Year HDD and CDD Averages

		Purchased	Heating Degree Days	Cooling Degree Days	Ontario Real GDP Monthly %	Number of Days in Month	Spring Fall Flag	Number of Peak Hours	Predicted Purchases	Variances (kWh)	% Variance	
2004	Jan-04	318,825,772	849.1	0.0	101.59%	31	0	336	322,566,086	3,740,314	1.17%	
2004	Feb-04	292,561,276	631.7	0.0	101.81%	29	0	320	297,085,243	4,523,967	1.55%	
2004	Mar-04	304,403,356	487.3	0.0	102.02%	31	1	368	304,265,659	-137,697	-0.05%	
2004	Apr-04	280,729,504	331.5	0.0	102.24%	30	1	336	285,495,873	4,766,369	1.70%	
2004	May-04	284,754,157	158.9	8.6	102.45%	31	1	320	284,672,702	-81,455	-0.03%	
2004	Jun-04	296,130,055	44.2	31.6	102.67%	30	0	352	295,129,456	-1,000,599	-0.34%	
2004	Jul-04	316,526,152	3.6	86.4	102.89%	31	0	336	324,594,235	8,068,084	2.55%	
2004	Aug-04	311,532,144	12.8	59.6	103.11%	31	0	336	312,132,834	600,690	0.19%	
2004	Sep-04	300,510,639	30.0	41.2	103.32%	30	1	336	293,054,847	-7,455,792	-2.48%	
2004	Oct-04	288,181,524	226.3	1.5	103.54%	31	1	320	287,458,769	-722,755	-0.25%	
2004	Nov-04	296,760,230	379.1	0.0	103.76%	30	1	352	294,465,755	-2,294,475	-0.77%	
2004	Dec-04	315,819,546	643.4	0.0	103.98%	31	0	336	317,781,813	1,962,267	0.62%	
2005	Jan-05	329,967,591	770.0	0.0	104.22%	31	0	320	322,562,831	-7,404,760	-2.24%	
2005	Feb-05	293,588,958	616.4	0.0	104.45%	28	0	320	297,080,549	3,491,591	1.19%	
2005	Mar-05	313,508,514	608.6	0.0	104.69%	31	1	352	315,004,229	1,495,716	0.48%	
2005	Apr-05	285,449,756	306.8	0.0	104.93%	30	1	336	291,087,959	5,638,203	1.98%	
2005	May-05	287,810,113	189.4	0.8	105.17%	31	1	336	291,857,925	4,047,813	1.41%	
2005	Jun-05	354,566,496	8.9	146.3	105.41%	30	0	352	358,083,558	3,517,062	0.99%	
2005	Jul-05	365,920,796	0.0	188.7	105.65%	31	0	320	380,498,201	14,577,405	3.98%	
2005	Aug-05	358,835,199	0.2	140.7	105.89%	31	0	352	362,011,581	3,176,382	0.89%	
2005	Sep-05	314,383,694	22.6	52.1	106.13%	30	1	336	305,347,038	-9,036,656	-2.87%	
2005	Oct-05	304,341,532	220.2	7.6	106.37%	31	1	320	297,459,139	-6,882,393	-2.26%	
2005	Nov-05	311,009,155	388.4	0.0	106.61%	30	1	352	302,267,112	-8,742,043	-2.81%	
2005	Dec-05	329,446,542	665.3	0.0	106.85%	31	0	320	323,770,822	-5,675,720	-1.72%	
2006	Jan-06	329,248,077	551.8	0.0	107.07%	31	0	336	320,843,143	-8,404,933	-2.55%	
2006	Feb-06	304,825,405	604.3	0.0	107.29%	28	0	320	303,697,644	-1,127,761	-0.37%	
2006	Mar-06	325,241,932	516.6	0.0	107.50%	31	1	368	319,868,811	-5,373,121	-1.65%	
2006	Apr-06	289,070,045	293.3	0.0	107.72%	30	1	304	292,442,557	3,372,512	1.17%	
2006	May-06	310,032,606	136.9	26.0	107.94%	31	1	352	311,408,478	1,375,872	0.44%	
2006	Jun-06	333,895,801	19.5	73.6	108.15%	30	0	352	329,043,828	-4,851,974	-1.45%	
2006	Jul-06	371,225,703	0.0	167.3	108.37%	31	0	320	376,696,128	5,470,425	1.47%	
2006	Aug-06	353,706,210	4.2	101.6	108.59%	31	0	352	349,444,927	-4,261,283	-1.20%	
2006	Sep-06	298,103,405	80.9	12.9	108.81%	30	1	320	293,014,176	-5,089,229	-1.71%	
2006	Oct-06	307,942,171	288.3	1.1	109.03%	31	1	336	307,149,529	-792,642	-0.26%	
2006	Nov-06	312,999,806	382.2	0.0	109.25%	30	1	352	308,696,878	-4,302,928	-1.37%	
2006	Dec-06	317,982,954	500.5	0.0	109.47%	31	0	304	319,192,815	1,209,862	0.38%	
2007	Jan-07	332,533,628	647.1	0.0	109.65%	31	0	352	335,039,821	2,506,194	0.75%	
2007	Feb-07	318,174,492	740.1	0.0	109.82%	28	0	320	317,403,691	-770,801	-0.24%	
2007	Mar-07	330,329,411	546.7	0.0	110.00%	31	1	352	325,330,134	-4,999,276	-1.51%	
2007	Apr-07	301,193,988	356.4	0.0	110.18%	30	1	320	304,633,180	3,439,192	1.14%	
2007	May-07	313,881,665	136.4	22.4	110.36%	31	1	352	315,771,969	1,890,304	0.60%	
2007	Jun-07	352,305,947	16.5	99.2	110.53%	30	0	336	345,351,571	-6,954,376	-1.97%	
2007	Jul-07	350,987,926	3.2	106.1	110.71%	31	0	336	354,563,130	3,575,204	1.02%	
2007	Aug-07	363,680,291	5.2	141.0	110.89%	31	0	352	375,257,208	11,576,917	3.18%	
2007	Sep-07	320,412,436	36.9	47.5	111.07%	30	1	304	311,379,425	-9,033,011	-2.82%	
2007	Oct-07	318,245,128	137.7	19.8	111.25%	31	1	352	316,824,415	-1,420,713	-0.45%	
2007	Nov-07	323,515,779	462.5	0.0	111.43%	30	1	352	318,550,645	-4,965,134	-1.53%	
2007	Dec-07	333,331,077	630.7	0.0	111.61%	31	0	304	331,590,105	-1,740,972	-0.52%	
2008	Jan-08	344,575,662	623.5	0.0	111.55%	31	0	352	338,674,001	-5,901,662	-1.71%	
2008	Feb-08	326,113,372	674.7	0.0	111.49%	29	0	320	324,195,281	-1,918,091	-0.59%	
2008	Mar-08	331,077,485	610.2	0.0	111.43%	31	1	304	324,750,582	-6,326,903	-1.91%	
2008	Apr-08	303,230,329	253.9	0.0	111.37%	30	1	352	307,338,960	4,108,631	1.35%	
2008	May-08	301,056,523	193.5	2.5	111.31%	31	1	336	308,685,046	7,628,523	2.53%	
2008	Jun-08	334,428,490	22.7	71.5	111.25%	30	0	336	333,563,819	-864,671	-0.26%	
2008	Jul-08	363,118,367	1.0	111.0	111.19%	31	0	352	360,689,641	-2,428,726	-0.67%	
2008	Aug-08	341,326,026	12.7	64.0	111.13%	31	0	320	332,390,850	-8,935,176	-2.62%	
2008	Sep-08	317,499,538	59.0	26.7	111.08%	30	1	336	307,158,766	-10,340,772	-3.26%	
2008	Oct-08	310,230,042	278.6	0.0	111.02%	31	1	352	313,717,101	3,487,059	1.12%	
2008	Nov-08	313,840,850	451.6	0.0	110.96%	30	1	304	309,140,542	-4,700,308	-1.50%	
2008	Dec-08	328,946,880	654.6	0.0	110.90%	31	0	336	336,109,476	7,162,596	2.18%	
2009	Jan-09	340,125,286	830.2	0.0	110.59%	31	0	336	344,644,224	4,518,938	1.33%	
2009	Feb-09	298,423,228	606.4	0.0	110.29%	28	0	304	308,976,199	10,552,970	3.54%	
2009	Mar-09	317,878,968	533.8	0.0	109.99%	31	1	352	324,619,723	6,740,755	2.12%	
2009	Apr-09	288,048,157	305.8	1.2	109.69%	30	1	320	301,300,510	13,252,353	4.60%	
2009	May-09	279,549,261	158.8	6.9	109.39%	31	1	320	301,588,742	22,039,482	7.88%	
2009	Jun-09	301,280,403	49.3	34.2	109.09%	30	0	352	313,165,263	11,884,861	3.94%	
2009	Jul-09	312,634,481	6.2	43.7	108.79%	31	0	352	320,883,252	8,248,771	2.64%	
2009	Aug-09	342,969,587	9.8	91.0	108.49%	31	0	320	339,071,194	-3,898,393	-1.14%	
2009	Sep-09	305,441,230	55.2	20.9	108.20%	30	1	336	296,650,790	-8,790,440	-2.88%	
2009	Oct-09	307,520,270	287.8	0.0	107.90%	31	1	336	303,675,065	-3,845,205	-1.25%	
2009	Nov-09	303,012,736	361.2	0.0	107.60%	30	1	320	298,289,938	-4,722,798	-1.56%	
2009	Dec-09	331,058,361	631.3	0.0	107.31%	31	0	352	328,214,253	-2,844,107	-0.86%	

Regression Model Using 20 Year HDD and CDD Averages

		Purchased	Heating Degree Days	Cooling Degree Days		Ontario Real GDP Monthly %	Number of Days in Month	Spring Fall Flag	Number of Peak Hours	Predicted Purchases	Variances (kWh)	% Variance
2010	Jan-10	338,841,930	720.0	0.0	107.57%		31	0	320	328,506,982	-10,334,948	-3.05%
2010	Feb-10	307,563,620	598.3	0.0	107.83%		28	0	304	302,238,491	-5,325,129	-1.73%
2010	Mar-10	317,385,709	422.8	0.0	108.09%		31	1	368	316,408,882	-976,827	-0.31%
2010	Apr-10	288,580,435	225.1	0.0	108.35%		30	1	320	292,996,525	4,416,090	1.53%
2010	May-10	317,160,058	107.9	45.7	108.62%		31	1	320	316,469,068	-690,990	-0.22%
2010	Jun-10	327,911,313	21.7	58.7	108.88%		30	0	352	323,517,281	-4,394,032	-1.34%
2010	Jul-10	387,084,558	1.8	164.9	109.15%		31	0	336	380,106,159	-6,978,399	-1.80%
2010	Aug-10	372,085,384	2.1	138.8	109.41%		31	0	336	367,646,482	-4,438,902	-1.19%
2010	Sep-10	309,880,175	78.2	31.5	109.68%		30	1	336	307,007,694	-2,872,480	-0.93%
2010	Oct-10	301,944,347	241.6	0.0	109.94%		31	1	320	303,921,467	1,977,121	0.65%
2010	Nov-10	309,107,401	405.3	0.0	110.21%		30	1	336	309,845,392	737,992	0.24%
2010	Dec-10	333,509,214	676.2	0.0	110.48%		31	0	368	341,252,747	7,743,533	2.32%
2011	Jan-11	346,157,898	775.3	0.0	110.64%		31	0	320	339,311,428	-6,846,470	-1.98%
2011	Feb-11	312,406,685	654.2	0.0	110.80%		28	0	304	312,827,642	420,957	0.13%
2011	Mar-11	334,049,130	572.8	0.0	110.97%		31	1	368	331,740,510	-2,308,620	-0.69%
2011	Apr-11	299,909,526	332.3	0.0	111.13%		30	1	304	303,269,660	3,360,134	1.12%
2011	May-11	308,520,842	134.1	13.0	111.30%		31	1	336	310,794,299	2,273,458	0.74%
2011	Jun-11	331,406,120	19.0	52.2	111.47%		30	0	352	326,724,104	-4,682,016	-1.41%
2011	Jul-11	399,276,724	0.0	198.6	111.63%		31	0	320	400,830,067	1,553,343	0.39%
2011	Aug-11	367,773,295	0.0	122.2	111.80%		31	0	352	367,828,914	55,618	0.02%
2011	Sep-11	313,781,747	48.2	39.7	111.96%		30	1	336	315,416,112	1,634,365	0.52%
2011	Oct-11	312,095,897	235.5	2.4	112.13%		31	1	336	312,958,517	862,620	0.28%
2011	Nov-11	314,340,389	342.1	0.0	112.30%		30	1	352	314,388,348	47,959	0.02%
2011	Dec-11	328,784,347	534.0	0.0	112.46%		30	0	336	333,730,275	4,945,928	1.50%
2012	Jan-12	342,744,742	611.1	0.0	112.60%		31	0	336	338,177,224	-4,567,518	-1.33%
2012	Feb-12	317,435,425	531.7	0.0	112.74%		29	0	320	319,822,646	2,387,220	0.75%
2012	Mar-12	323,010,362	349.4	0.2	112.88%		31	1	352	322,361,072	-649,290	-0.20%
2012	Apr-12	301,644,611	321.7	0.0	113.02%		30	1	320	310,090,261	8,445,650	2.80%
2012	May-12	326,399,579	80.7	36.7	113.16%		31	1	352	327,225,742	826,163	0.25%
2012	Jun-12	357,950,417	23.2	101.6	113.30%		30	0	336	354,019,955	-3,930,462	-1.10%
2012	Jul-12	407,476,192	0.0	195.4	113.45%		31	0	352	408,946,490	1,470,297	0.36%
2012	Aug-12	375,206,978	2.0	112.1	113.59%		31	0	352	367,430,097	-7,776,881	-2.07%
2012	Sep-12	319,835,103	85.0	35.6	113.73%		30	1	304	314,743,075	-5,092,028	-1.59%
2012	Oct-12	318,167,447	242.5	1.1	113.87%		31	1	352	319,669,626	1,502,179	0.47%
2012	Nov-12	324,129,468	434.0	0.0	114.01%		30	1	352	323,652,581	-476,887	-0.15%
2012	Dec-12	329,242,704	533.5	0.0	114.15%		31	0	304	332,949,654	3,706,950	1.13%
2013	Jan-13	348,513,720	624.4	0.0	114.27%		31	0	352	345,704,152	-2,809,568	-0.81%
2013	Feb-13	317,590,943	631.5	0.0	114.40%		28	0	304	320,833,979	3,243,035	1.02%
2013	Mar-13	333,368,808	554.8	0.0	114.52%		31	1	320	332,270,868	-1,097,940	-0.33%
2013	Apr-13	312,277,396	358.6	0.0	114.64%		30	1	352	321,279,306	9,001,910	2.88%
2013	May-13	320,170,213	109.1	23.1	114.77%		31	1	352	325,987,354	5,817,141	1.82%
2013	Jun-13	335,997,920	33.4	59.3	114.89%		30	0	320	334,768,615	-1,229,306	-0.37%
2013	Jul-13	385,395,998	1.4	133.3	115.01%		31	0	352	381,745,227	-3,650,771	-0.95%
2013	Aug-13	362,278,437	4.6	93.2	115.14%		31	0	336	359,482,438	-2,795,999	-0.77%
2013	Sep-13	318,477,237	89.6	28.0	115.26%		30	1	320	317,632,070	-845,167	-0.27%
2013	Oct-13	318,760,032	224.2	0.0	115.39%		31	1	352	322,036,921	3,276,889	1.03%
2013	Nov-13	329,707,415	478.3	0.0	115.51%		30	1	336	327,310,938	-2,396,477	-0.73%
2013	Dec-13	344,618,546	687.7	0.0	115.64%		31	0	320	347,471,571	2,853,026	0.83%
2014	Jan-14		715.2	0.0	115.84%		31	0	352	354,522,870	354,522,870	
2014	Feb-14		625.8	0.0	116.04%		28	0	304	324,735,138	324,735,138	
2014	Mar-14		534.2	0.0	116.24%		31	1	320	335,582,942	335,582,942	
2014	Apr-14		325.6	0.7	116.44%		30	1	352	324,479,215	324,479,215	
2014	May-14		151.7	14.9	116.64%		31	1	336	326,370,247	326,370,247	
2014	Jun-14		29.0	70.4	116.84%		30	0	336	347,656,638	347,656,638	
2014	Jul-14		3.5	129.1	117.05%		31	0	352	384,928,330	384,928,330	
2014	Aug-14		6.4	104.4	117.25%		31	0	320	368,076,915	368,076,915	
2014	Sep-14		64.7	33.9	117.45%		30	1	336	327,427,113	327,427,113	
2014	Oct-14		244.5	2.6	117.66%		31	1	352	330,260,127	330,260,127	
2014	Nov-14		415.8	0.0	117.86%		30	1	320	327,475,075	327,475,075	
2014	Dec-14		608.8	0.0	118.06%		31	0	336	352,051,065	352,051,065	
2015	Jan-15		715.2	0.0	118.31%		31	0	336	358,318,515	358,318,515	
2015	Feb-15		625.8	0.0	118.55%		28	0	304	331,180,265	331,180,265	
2015	Mar-15		534.2	0.0	118.79%		31	1	352	347,217,431	347,217,431	
2015	Apr-15		325.6	0.7	119.04%		30	1	336	328,606,035	328,606,035	
2015	May-15		151.7	14.9	119.28%		31	1	320	330,608,250	330,608,250	
2015	Jun-15		29.0	70.4	119.53%		30	0	352	357,085,194	357,085,194	
2015	Jul-15		3.5	129.1	119.78%		31	0	352	391,929,381	391,929,381	
2015	Aug-15		6.4	104.4	120.02%		31	0	320	375,190,347	375,190,347	
2015	Sep-15		64.7	33.9	120.27%		30	1	336	334,653,328	334,653,328	
2015	Oct-15		244.5	2.6	120.52%		31	1	336	335,060,041	335,060,041	
2015	Nov-15		415.8	0.0	120.77%		30	1	336	337,467,548	337,467,548	
2015	Dec-15		608.8	0.0	121.02%		31	0	352	362,157,530	362,157,530	
			Weather Normalized									

Regression Model Using 20 Year HDD and CDD Averages

<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
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	Actual	Predicted	Variance (kWh)	Variance %
2001				
2002				
2003				
2004	3,606,734,355	3,618,703,271	-11,968,916	-0.33%
2005	3,848,828,345	3,847,030,944	1,797,401	0.05%
2006	3,854,274,114	3,831,498,914	22,775,200	0.59%
2007	3,958,591,768	3,951,695,295	6,896,473	0.17%
2008	3,915,443,564	3,896,414,064	19,029,500	0.49%
2009	3,727,941,968	3,781,079,154	-53,137,186	-1.43%
2010	3,911,054,142	3,889,917,169	21,136,973	0.54%
2011	3,968,502,600	3,969,819,877	-1,317,277	-0.03%
2012	4,043,243,029	4,039,088,423	4,154,606	0.10%
2013	4,027,156,664	4,036,523,438	-9,366,774	-0.23%
2014		4,103,565,674		
2015		4,189,473,865		

Total	38,861,770,550	38,861,770,550	0
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SUMMARY OUTPUT

Regression Statistics	
Multiple R	97.39%
R Square	94.85%
Adjusted R Square	94.58%
Standard Error	5,815,931.18
Observations	120

ANOVA					
	df	SS	MS	F	Significance F
Regression	6	7.04342E+16	1.1739E+16	347.05	0.0000
Residual	113	3.82223E+15	3.38251E+13		
Total	119	7.42565E+16			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	(221,662,898.69)	26,885,886.06	(8.2446)	0.0000	-274928686.4	-168397111	-274928686.4	-168397111
Heating Degree Days	53,034.96	3,574.90	14.8354	0.0000	45952.43392	60117.49593	45952.43392	60117.49593
Cooling Degree Days	504,004.04	20,539.16	24.5387	0.0000	463312.2633	544695.8085	463312.2633	544695.8085
Ontario Real GDP Month	256,369,295.02	15,310,537.77	16.7446	0.0000	226036359.3	286702230.8	226036359.3	286702230.8
Number of Days in Month	5,981,255.99	731,226.54	8.1798	0.0000	4532564.374	7429947.605	4532564.374	7429947.605
Spring Fall Flag	(5,294,424.25)	1,509,855.26	(3.5066)	0.0007	-8285719.738	-2303128.771	-8285719.738	-2303128.771
Number of Peak Hours	158,717.84	33,181.99	4.7833	0.0000	92978.33	224457.3571	92978.33	224457.3571

HOBNI Rate Class Energy Model															Energy from	
	Purchases	Modeled Purchases	Difference	% Difference	Loss Factor	Total Billed	Residential	GS<50	USL	GS>50	Intermediate	LU	SL	Embedded Distributor	Distributed Generation	Waste Generation
	2014					-44,327,915	-10,299,141	-1,194,987	0	-19,661,974	-13,171,813	0	0			-44,327,915
	2015					-51,954,724	-12,074,272	-1,400,952	0	-23,050,858	-15,428,642	0	0			-51,954,724
Wholesale Market Participant Adjustment																Total
	2014					-55,914,853	0	0	0	0	-55,914,853	0	0			-55,914,853
	2015					-55,918,315	0	0	0	0	-55,918,315	0	0			-55,918,315
Weather Normalized Billed Energy Forecast from Regression																Total
	2014					3,879,862,095	1,249,454,159	338,649,623	5,818,253.4699	1,067,572,851	804,411,590	381,669,818	32,285,800			3,879,862,095
	2015					3,955,443,833	1,308,264,983	354,668,870	5,931,732.9043	1,064,497,599	806,154,180	382,619,513	33,306,955			3,955,443,833
Weather Normalized Billed Energy Forecast - Not from Regression																Total
	2014					113,715								0	113,715	0
	2015					17,191,230								17,012,414	178,816	0
Total Forecasted Billed Energy for all Rate Classes																Total
	2014					3,879,975,810	1,249,454,159	338,649,623	5,818,253	1,067,572,851	804,411,590	381,669,818	32,285,800	0	113,715	0
	2015					3,972,635,063	1,308,264,983	354,668,870	5,931,733	1,064,497,599	806,154,180	382,619,513	33,306,955	17,012,414	178,816	0

HOBNI Rate Class Customer Model

		RES	GS<50	USL	GS>50	Intermediate	Large User	Street Lights
Number of Customers by Class	1999							
	2000							
	2001							
	2002							
	2003	91,671	6,512	1,105	1,357	126	4	19,210
	2004	98,355	6,648	1,130	1,393	124	3	19,382
	2005	104,822	6,892	1,159	1,364	121	3	19,532
	2006	109,778	7,075	1,207	1,402	119	4	19,701
	2007	114,119	7,294	1,250	1,417	117	5	20,002
	2008	119,060	7,437	1,267	1,491	116	6	20,282
	2009	121,041	7,529	1,280	1,554	114	6	20,465
	2010	123,013	7,752	1,293	1,539	114	6	20,691
	2011	126,317	8,080	1,369	1,537	112	6	21,003
	2012	129,699	8,328	1,424	1,525	112	6	21,359
	2013	133,723	8,532	1,477	1,511	115	6	21,727
	2014	137,303	8,758	1,519	1,501	115	6	22,029
	2015	140,979	8,989	1,562	1,491	115	6	22,335

Growth in Customer Numbers									
		RES	GS<50	USL	GS>50	Intermediate	Large User	Street Lights	TOTAL
	2003								
	2004	107.29%	102.10%	102.26%	102.65%	98.74%	77.08%	100.90%	105.88%
	2005	106.58%	103.66%	102.57%	97.88%	96.92%	97.30%	100.77%	105.40%
	2006	104.73%	102.67%	104.14%	102.81%	98.48%	130.56%	100.86%	104.03%
	2007	103.95%	103.10%	103.56%	101.05%	98.46%	125.53%	101.53%	103.53%
	2008	104.33%	101.95%	101.36%	105.25%	99.00%	122.03%	101.40%	103.78%
	2009	101.66%	101.24%	101.03%	104.19%	98.49%	100.00%	100.90%	101.56%
	2010	101.63%	102.96%	101.02%	99.06%	100.07%	100.00%	101.10%	101.59%
	2011	102.69%	104.24%	105.86%	99.87%	98.17%	100.00%	101.51%	102.60%
	2012	102.68%	103.06%	104.04%	99.25%	99.63%	100.00%	101.70%	102.54%
	2013	103.10%	102.45%	103.73%	99.08%	103.29%	100.00%	101.72%	102.86%
	Geomean	102.68%	102.65%	102.82%	99.31%	99.76%	100.00%	101.39%	102.49%

Wholesale Market Participants									
		Uplifted				Non-Uplifted			
Year	Month	Par-Pak	Loblaw	Total		Par-Pak	Loblaw	Total	Loss Factor
2011	jan	-	-	-				-	1.034
2011	feb	-	-	-				-	1.034
2011	mar	-	-	-				-	1.034
2011	apr	-	-	-				-	1.034
2011	may	3,287,403	-	3,287,403		3,179,306	-	3,179,306	1.034
2011	jun	3,439,222	-	3,439,222		3,326,133	-	3,326,133	1.034
2011	jul	3,630,411	-	3,630,411		3,511,036	-	3,511,036	1.034
2011	aug	4,085,774	-	4,085,774		3,951,426	-	3,951,426	1.034
2011	sep	3,958,783	-	3,958,783		3,828,610	-	3,828,610	1.034
2011	oct	4,062,530	-	4,062,530		3,928,946	-	3,928,946	1.034
2011	nov	4,192,028	-	4,192,028		4,054,186	-	4,054,186	1.034
2011	dec	3,934,476	-	3,934,476		3,805,102	-	3,805,102	1.034
2012	jan	3,723,587	-	3,723,587		3,601,148	-	3,601,148	1.034
2012	feb	3,294,699	-	3,294,699		3,186,363	-	3,186,363	1.034
2012	mar	4,066,062	-	4,066,062		3,932,362	-	3,932,362	1.034
2012	apr	3,975,605	373,674	4,349,280		3,844,879	361,387	4,206,267	1.034
2012	may	3,946,525	424,331	4,370,856		3,816,755	410,378	4,227,133	1.034
2012	jun	3,955,512	434,879	4,390,391		3,825,447	420,579	4,246,027	1.034
2012	jul	4,367,035	467,199	4,834,234		4,223,439	451,836	4,675,275	1.034
2012	aug	4,472,249	441,645	4,913,895		4,325,193	427,123	4,752,316	1.034
2012	sep	4,404,641	376,645	4,781,286		4,259,808	364,260	4,624,068	1.034
2012	oct	4,606,891	358,701	4,965,592		4,455,407	346,906	4,802,313	1.034
2012	nov	4,564,234	335,985	4,900,219		4,414,153	324,937	4,739,090	1.034
2012	dec	3,704,664	355,287	4,059,951		3,582,848	343,604	3,926,452	1.034
2013	jan	4,290,599	349,484	4,640,083		4,149,515	337,993	4,487,508	1.034
2013	feb	3,671,865	310,532	3,982,397		3,551,126	300,321	3,851,448	1.034
2013	mar	4,308,805	334,433	4,643,239		4,167,123	323,437	4,490,560	1.034
2013	apr	4,456,984	338,658	4,795,642		4,310,429	327,523	4,637,952	1.034
2013	may	4,332,483	393,637	4,726,120		4,190,022	380,693	4,570,716	1.034
2013	jun	4,488,024	406,353	4,894,378		4,340,449	392,992	4,733,441	1.034
2013	jul	4,641,752	450,477	5,092,229		4,489,122	435,665	4,924,786	1.034
2013	aug	4,827,391	453,426	5,280,817		4,668,656	438,517	5,107,173	1.034
2013	sep	4,574,462	395,800	4,970,262		4,424,045	382,785	4,806,830	1.034
2013	oct	4,782,026	381,199	5,163,225		4,624,784	368,664	4,993,448	1.034
2013	nov	4,998,876	345,384	5,344,260		4,834,503	334,027	5,168,530	1.034
2013	dec	3,919,827	359,900	4,279,727		3,790,935	348,066	4,139,001	1.034
2014	jan	4,290,864	349,506	4,640,370		4,149,772	338,014	4,487,786	1.034
2014	feb	3,672,092	310,552	3,982,644		3,551,346	300,340	3,851,686	1.034
2014	mar	4,309,072	334,454	4,643,526		4,167,381	323,457	4,490,838	1.034
2014	apr	4,457,260	338,679	4,795,939		4,310,696	327,543	4,638,239	1.034
2014	may	4,332,751	393,661	4,726,413		4,190,282	380,717	4,570,999	1.034
2014	jun	4,488,302	406,378	4,894,681		4,340,718	393,016	4,733,734	1.034
2014	jul	4,642,039	450,505	5,092,544		4,489,400	435,692	4,925,091	1.034
2014	aug	4,827,689	453,454	5,281,144		4,668,945	438,544	5,107,489	1.034
2014	sep	4,574,745	395,825	4,970,570		4,424,319	382,809	4,807,128	1.034
2014	oct	4,782,322	381,222	5,163,545		4,625,070	368,687	4,993,757	1.034
2014	nov	4,999,185	345,405	5,344,591		4,834,802	334,048	5,168,850	1.034
2014	dec	3,920,070	359,923	4,279,992		3,791,170	348,088	4,139,258	1.034
2015	jan	4,291,545	349,562	4,641,106		4,150,029	338,035	4,488,063	1.0341
2015	feb	3,672,674	310,601	3,983,275		3,551,566	300,359	3,851,925	1.0341
2015	mar	4,309,756	334,507	4,644,263		4,167,639	323,477	4,491,116	1.0341
2015	apr	4,457,967	338,733	4,796,700		4,310,963	327,563	4,638,526	1.0341
2015	may	4,333,439	393,724	4,727,162		4,190,541	380,740	4,571,282	1.0341
2015	jun	4,489,014	406,443	4,895,457		4,340,987	393,040	4,734,027	1.0341
2015	jul	4,642,776	450,577	5,093,352		4,489,678	435,719	4,925,396	1.0341
2015	aug	4,828,455	453,526	5,281,981		4,669,234	438,571	5,107,805	1.0341
2015	sep	4,575,471	395,887	4,971,359		4,424,593	382,833	4,807,425	1.0341
2015	oct	4,783,081	381,283	5,164,364		4,625,356	368,710	4,994,066	1.0341
2015	nov	4,999,978	345,460	5,345,439		4,835,101	334,068	5,169,170	1.0341
2015	dec	3,920,692	359,980	4,280,671		3,791,405	348,109	4,139,514	1.0341

	Par-Pak	Loblaw	Total
2011	30,590,627	-	30,590,627
2012	49,081,707	3,568,346	52,650,053
2013	53,293,095	4,519,285	57,812,380
2014	53,296,394	4,519,565	57,815,958
2015	53,304,848	4,520,282	57,825,129
Total	239,566,670	17,127,477	256,694,148

	Par-Pak	Loblaw	Total
2011	29,584,746	-	29,584,746
2012	47,467,802	3,451,012	50,918,813
2013	51,540,711	4,370,682	55,911,393
2014	51,543,901	4,370,952	55,914,853
2015	51,547,092	4,371,223	55,918,315
Total	231,684,251	16,563,869	248,248,120

	2015 Forecasted Monthly Peak kW	2015 Forecasted Monthly Billed kWh	Loss Factor	2015 Forecasted Monthly kWh (Uplifted)
Jan	2,612	1,378,242	1.0247	1,412,285
Feb	2,508	1,254,045	1.0247	1,285,020
Mar	2,290	1,261,482	1.0247	1,292,641
Apr	2,099	1,097,718	1.0247	1,124,831
May	3,744	1,578,222	1.0247	1,617,204
Jun	4,547	1,797,646	1.0247	1,842,048
Jul	5,000	2,113,370	1.0247	2,165,570
Aug	4,233	1,908,762	1.0247	1,955,908
Sep	4,552	1,728,365	1.0247	1,771,055
Oct	3,095	896,754	1.0247	918,903
Nov	2,523	1,107,850	1.0247	1,135,214
Dec	2,870	889,959	1.0247	911,941
	40,073	17,012,414		17,432,620

	2013 Actual Monthly Peak kW	2013 Actual Number of Customers
Jan	10	14
Feb	17	14
Mar	14	16
Apr	14	15
May	11	17
Jun	12	20
Jul	13	21
Aug	14	21
Sep	13	21
Oct	13	21
Nov	19	22
Dec	22	23
	171	19

2015 Forecasted Number of Customers	2015 Forecasted Monthly Peak kW	2015 Forecasted Monthly Billed kWh	Loss Factor	2015 Forecasted Monthly Uplifted kWh
61	45	19,528	1.0341	20,194
62	78	21,688	1.0341	22,427
64	55	13,408	1.0341	13,866
65	58	11,656	1.0341	12,054
66	42	9,021	1.0341	9,329
67	39	7,731	1.0341	7,994
68	41	10,157	1.0341	10,503
69	46	11,323	1.0341	11,709
71	45	12,853	1.0341	13,291
72	43	15,910	1.0341	16,453
73	63	18,633	1.0341	19,268
74	71	26,908	1.0341	27,825
68	627	178,816		184,913

2014 Forecasted Number of Customers	2014 Forecasted Monthly Peak kW	2014 Forecasted Monthly kWh	Loss Factor	2014 Forecasted Monthly Uplifted kWh
26	19	8,328	1.0349	8,618
29	36	10,148	1.0349	10,502
32	28	6,810	1.0349	7,047
35	32	6,369	1.0349	6,591
38	24	5,264	1.0349	5,448
42	24	4,788	1.0349	4,955
45	27	6,643	1.0349	6,875
48	31	7,785	1.0349	8,057
51	32	9,252	1.0349	9,575
54	33	11,951	1.0349	12,368
57	49	14,561	1.0349	15,069
60	58	21,817	1.0349	22,578
43	394	113,715		117,684

Rate Class Load Model

	GS>50	Intermediate	Large Use	Street Lights	TOTAL
2003	2,726,683	1,956,285	531,189	58,415	5,272,572
2004	2,792,673	2,104,962	505,001	60,474	5,463,110
2005	2,901,457	2,167,872	515,785	65,522	5,650,636
2006	2,962,866	2,137,488	589,471	70,150	5,759,975
2007	3,039,974	2,106,615	639,861	76,385	5,862,835
2008	3,064,109	1,976,551	712,935	79,929	5,833,524
2009	3,049,119	1,839,970	696,851	81,921	5,667,861
2010	3,049,813	1,916,781	684,290	84,893	5,735,777
2011	3,051,053	1,894,300	716,743	90,235	5,752,331
2012	3,074,186	1,928,037	736,260	92,995	5,831,478
2013	3,051,058	1,980,476	701,011	95,410	5,827,955
2014	2,988,434	1,965,158	718,200	97,585	5,769,378
2015	2,979,826	1,969,146	719,987	100,672	5,769,631

kW/kWh				
2003	0.2738%	0.2315%	0.1885%	0.3057%
2004	0.2671%	0.2281%	0.1739%	0.2885%
2005	0.2679%	0.2272%	0.1694%	0.2991%
2006	0.2741%	0.2249%	0.1764%	0.2949%
2007	0.2739%	0.2236%	0.1801%	0.2962%
2008	0.2744%	0.2266%	0.1835%	0.2984%
2009	0.2821%	0.2334%	0.2034%	0.2996%
2010	0.2801%	0.2282%	0.1884%	0.2996%
2011	0.2773%	0.2280%	0.1817%	0.3033%
2012	0.2790%	0.2245%	0.1830%	0.3039%
2013	0.2812%	0.2279%	0.1843%	0.3049%
Average	0.2799%	0.2284%	0.1882%	0.3023%

Historical kW for Embedded Distributor

Year	Month	kW	
2009	jan	4,137.60	
2009	feb	4,048.80	
2009	mar	3,907.20	
2009	apr	3,204.00	
2009	may	2,529.60	
2009	jun	2,788.80	
2009	jul	5,064.00	
2009	aug	2,829.60	
2009	sep	-	
2009	oct		
2009	nov	2,918.40	
2009	dec	3,561.60	34,989.60
2010	jan	3,664.80	
2010	feb	3,552.00	
2010	mar	3,115.20	
2010	apr	2,856.00	
2010	may	5,896.80	
2010	jun	5,344.80	
2010	jul	2,308.80	
2010	aug	2,299.20	
2010	sep	2,282.40	
2010	oct	2,068.80	
2010	nov	2,469.60	
2010	dec	3,400.80	39,259.20
2011	jan	8,719.20	
2011	feb	8,709.60	
2011	mar	7,588.80	
2011	apr	6,422.25	
2011	may	5,476.20	
2011	jun	6,070.64	
2011	jul	7,458.58	
2011	aug	6,480.49	
2011	sep	5,968.77	
2011	oct	4,801.09	
2011	nov	5,424.60	
2011	dec	11,039.01	84,159.23
2012	jan	11,531.75	
2012	feb	5,883.68	
2012	mar	5,569.18	
2012	apr	4,731.66	
2012	may	5,925.69	
2012	june	7,029.58	
2012	july	7,358.05	
2012	august	6,533.96	
2012	september	6,069.41	
2012	october	4,852.51	
2012	november	5,401.79	
2012	december	5,911.02	76,798.28
2013	january	6,189.71	
2013	february	5,944.24	
2013	march	5,426.96	
2013	april	4,975.98	
2013	may	8,873.26	
2013	june	10,777.62	
2013	july	11,851.29	
2013	august	10,034.50	
2013	september	10,790.31	
2013	october	7,336.53	
2013	november	5,980.67	
2013	december	6,803.80	94,984.87

Purchased kWh													
	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
	1	2	3	4	5	6	7	8	9	10	11	12	
2000						259,772,923	261,782,917	280,456,500	252,941,432	248,765,438	257,776,743	277,448,676	1,838,944,627
2001	280,845,210	255,669,091	270,976,956	241,625,477	254,877,802	280,369,159	283,380,117	309,700,654	256,033,996	262,356,881	263,952,616	272,406,020	3,232,193,978
2002	284,761,887	261,561,491	281,058,428	267,232,388	268,731,435	287,224,946	336,393,633	323,078,534	288,951,649	274,918,581	278,120,054	289,471,090	3,441,504,117
2003	307,542,957	279,902,418	292,786,171	269,814,265	267,913,712	286,282,449	318,440,802	297,771,903	267,335,938	274,153,307	281,313,885	295,245,545	3,438,503,351
2004	318,825,772	292,561,276	304,403,356	280,729,504	284,754,157	296,130,055	316,526,152	311,532,144	300,510,639	288,181,524	296,760,230	315,819,546	3,606,734,355
2005	329,967,591	293,588,958	313,508,514	285,449,756	287,810,113	354,566,496	365,920,796	358,835,199	314,383,694	304,341,532	311,009,155	329,446,542	3,848,828,345
2006	329,248,077	304,825,405	325,241,932	289,070,045	310,032,606	333,895,801	371,225,703	353,706,210	298,103,405	307,942,171	312,999,806	317,982,954	3,854,274,114
2007	332,533,628	318,174,492	330,329,411	301,193,988	313,881,665	352,305,947	350,987,926	363,680,291	320,412,436	318,245,128	323,515,779	333,331,077	3,958,591,768
2008	344,575,662	326,113,372	331,077,485	303,230,329	301,056,523	334,428,490	363,118,367	341,326,026	317,499,538	310,230,042	313,840,850	328,946,880	3,915,443,564
2009	340,125,286	298,423,228	317,878,968	288,048,157	279,549,261	301,280,403	312,634,481	342,969,587	305,441,230	307,520,270	303,012,736	331,058,361	3,727,941,968
2010	338,841,930	307,563,620	317,385,709	288,580,435	317,160,058	327,911,313	387,084,558	372,085,384	309,880,175	301,944,347	309,107,401	333,509,214	3,911,054,142
2011	346,157,898	312,406,685	334,049,130	299,909,526	308,520,842	331,406,120	399,276,724	367,773,295	313,781,747	312,095,897	314,340,389	328,784,347	3,968,502,600
2012	342,744,742	317,435,425	323,010,362	301,644,611	326,399,579	357,950,417	407,476,192	375,206,978	319,835,103	318,167,447	324,129,468	329,242,704	4,043,243,029
2013	348,513,720	317,590,943	333,368,808	312,277,396	320,170,213	335,997,920	385,395,998	362,278,437	318,477,237	318,760,032	329,707,415	344,618,546	4,027,156,664

Number of Customers and Connections by Month

Year	Month	Residential	GS<50	USL - Connections	GS>50	Intermediate	Large User	Street Light - Connections	Embedded Distributor	Distributed Generation	Energy from Waste Genneration	Total	Street Light- Lamps	USL - Customers	Street Light- Customers
2003	jan	88,846	6,469	1,105	1,319	122	4	19,127				116,992	29,769		2
2003	feb	89,106	6,480	1,105	1,321	123	4	19,142				117,281	29,871		2
2003	mar	89,628	6,494	1,105	1,344	124	4	19,157				117,856	29,974		2
2003	apr	90,127	6,472	1,105	1,345	124	4	19,172				118,349	30,077		2
2003	may	90,572	6,510	1,105	1,344	124	4	19,187				118,846	30,180		2
2003	jun	91,036	6,530	1,105	1,350	124	4	19,202				119,351	30,284		2
2003	jul	91,828	6,504	1,105	1,350	124	4	19,217				120,132	30,388		2
2003	aug	92,229	6,523	1,105	1,349	124	4	19,232				120,566	30,492		2
2003	sep	93,180	6,512	1,105	1,393	127	4	19,247				121,568	30,597		2
2003	oct	94,084	6,529	1,105	1,392	131	4	19,262				122,507	30,702		2
2003	nov	94,708	6,559	1,105	1,391	132	4	19,277				123,176	30,807		2
2003	dec	94,708	6,559	1,105	1,391	132	4	19,292				123,191	30,913		2
2004	jan	95,064	6,544	1,130	1,390	132	4	19,306				123,570	31,019		2
2004	feb	95,895	6,589	1,130	1,394	135	3	19,320				124,466	31,125		2
2004	mar	96,285	6,604	1,130	1,394	134	3	19,334				124,884	31,232		2
2004	apr	96,725	6,606	1,130	1,395	136	3	19,348				125,343	31,339		2
2004	may	97,077	6,609	1,130	1,404	118	3	19,361				125,702	31,447		2
2004	jun	97,807	6,615	1,130	1,397	118	3	19,375				126,445	31,555		2
2004	jul	98,313	6,600	1,130	1,408	118	3	19,389				126,961	31,663		2
2004	aug	99,031	6,651	1,130	1,420	119	3	19,403				127,757	31,772		2
2004	sep	99,957	6,691	1,130	1,388	118	3	19,417				128,704	31,881		2
2004	oct	100,574	6,703	1,130	1,376	122	3	19,431				129,339	31,990		2
2004	nov	101,456	6,770	1,130	1,378	121	3	19,445				130,303	32,100		2
2004	dec	102,070	6,797	1,130	1,376	121	3	19,459				130,956	32,210		2
2005	jan	102,392	6,823	1,159	1,379	125	3	19,470				131,351	32,321	73	2
2005	feb	102,796	6,832	1,159	1,378	126	3	19,481				131,775	32,432	72	2
2005	mar	103,098	6,860	1,159	1,362	120	3	19,493				132,095	32,543	72	2
2005	apr	103,554	6,838	1,159	1,370	120	3	19,504				132,548	32,655	72	2
2005	may	103,932	6,864	1,159	1,353	120	3	19,515				132,946	32,767	72	2
2005	jun	104,397	6,870	1,159	1,351	120	3	19,526				133,426	32,879	72	2
2005	jul	104,872	6,891	1,159	1,354	120	3	19,538				133,937	32,992	72	2
2005	aug	105,326	6,895	1,159	1,359	120	3	19,549				134,411	33,105	72	2
2005	sep	106,046	6,931	1,159	1,366	120	3	19,560				135,185	33,219	72	2
2005	oct	106,556	6,940	1,159	1,364	120	3	19,571				135,713	33,333	72	2
2005	nov	107,280	6,965	1,159	1,360	117	3	19,583				136,467	33,448	72	2
2005	dec	107,609	6,991	1,159	1,369	118	3	19,594				136,843	33,563	74	2
2006	jan	108,069	7,029	1,207	1,381	119	3	19,610				137,418	33,678	72	2
2006	feb	108,299	7,051	1,207	1,378	118	4	19,627				137,684	33,793	72	2
2006	mar	108,662	7,047	1,207	1,396	118	4	19,643				138,077	33,909	72	2
2006	apr	108,948	7,042	1,207	1,398	118	4	19,659				138,376	34,026	73	2
2006	may	109,247	7,046	1,207	1,412	118	4	19,676				138,710	34,143	72	2
2006	jun	109,426	7,046	1,207	1,420	118	4	19,692				138,913	34,260	72	2
2006	jul	109,726	7,054	1,207	1,399	119	4	19,709				139,218	34,378	72	2
2006	aug	110,151	7,065	1,207	1,406	119	4	19,725				139,677	34,496	72	2
2006	sep	110,556	7,074	1,207	1,410	120	4	19,742				140,113	34,614	72	2
2006	oct	111,244	7,141	1,207	1,403	119	4	19,758				140,876	34,733	72	2
2006	nov	111,412	7,148	1,207	1,411	119	4	19,775				141,076	34,852	72	2
2006	dec	111,598	7,161	1,207	1,411	119	4	19,791				141,291	34,972	70	2
2007	jan	111,983	7,199	1,250	1,421	119	4	19,823				141,799	35,092	70	2
2007	feb	112,259	7,208	1,250	1,422	120	4	19,856				142,119	35,212	70	2
2007	mar	112,520	7,234	1,250	1,401	119	5	19,888				142,417	35,333	70	2
2007	apr	112,804	7,245	1,250	1,402	118	5	19,920				142,744	35,455	70	2
2007	may	113,200	7,258	1,250	1,411	117	5	19,953				143,194	35,577	70	2
2007	jun	113,547	7,271	1,250	1,410	117	5	19,986				143,586	35,699	70	2
2007	jul	114,103	7,283	1,250	1,402	117	5	20,018				144,178	35,821	70	2
2007	aug	114,683	7,318	1,250	1,414	117	5	20,051				144,838	35,944	70	2
2007	sep	115,068	7,322	1,250	1,420	115	5	20,084				145,264	36,068	70	2
2007	oct	115,774	7,358	1,250	1,419	115	5	20,116				146,037	36,192	70	2
2007	nov	116,461	7,396	1,250	1,437	115	5	20,149				146,813	36,316	68	2
2007	dec	117,024	7,440	1,250	1,443	113	6	20,182				147,458	36,441	68	2
2008	jan	117,488	7,434	1,267	1,461	113	6	20,197				147,966	36,566	67	2
2008	feb	117,900	7,428	1,267	1,479	113	6	20,213				148,406	36,691	67	2
2008	mar	118,156	7,437	1,267	1,488	113	6	20,228				148,695	36,817	67	2
2008	apr	118,500	7,424	1,267	1,482	114	6	20,243				149,036	36,944	67	2
2008	may	118,823	7,426	1,267	1,479	116	6	20,259				149,376	37,071	67	2
2008	jun	118,969	7,413	1,267	1,479	117	6	20,274				149,525	37,198	67	2
2008	jul	119,282	7,413	1,267	1,485	117	6	20,290				149,860	37,326	67	2
2008	aug	119,438	7,419	1,267	1,491	117	6	20,305				150,043	37,454	67	2
2008	sep	119,587	7,441	1,267	1,496	117	6	20,321				150,235	37,583	67	2
2008	oct	119,951	7,445	1,267	1,517	117	6	20,336				150,639	37,712	67	2
2008	nov	120,231	7,476	1,267	1,518	117	6	20,352				150,967	37,841	67	2

Number of Customers and Connections by Month

Year	Month	Residential	GS<50	USL - Connections	GS>50	Intermediate	Large User	Street Light - Connections	Embedded Distributor	Distributed Generation	Energy from Waste Genneration	Total	Street Light- Lamps	USL - Customers	Street Light- Customers
2008	dec	120,395	7,485	1,267	1,519	117	6	20,367				151,156	37,971	67	2
2009	jan	120,546	7,496	1,280	1,532	116	6	20,382				151,358	38,102	67	2
2009	feb	120,596	7,497	1,280	1,535	116	6	20,397				151,427	38,232	67	2
2009	mar	120,697	7,507	1,280	1,542	115	6	20,412				151,559	38,364	67	2
2009	apr	120,743	7,490	1,280	1,558	115	6	20,427				151,619	38,495	67	2
2009	may	120,836	7,486	1,280	1,568	116	6	20,442				151,734	38,627	67	2
2009	jun	120,918	7,489	1,280	1,570	114	6	20,457				151,834	38,760	67	2
2009	jul	121,070	7,500	1,280	1,575	114	6	20,472				152,017	38,893	66	2
2009	aug	121,201	7,517	1,280	1,579	114	6	20,487				152,184	39,027	66	2
2009	sep	121,267	7,523	1,280	1,583	113	6	20,503				152,275	39,161	66	2
2009	oct	121,405	7,604	1,280	1,532	113	6	20,518				152,458	39,295	66	2
2009	nov	121,519	7,616	1,280	1,536	110	6	20,533				152,600	39,430	64	2
2009	dec	121,692	7,620	1,280	1,534	111	6	20,548				152,791	39,565	64	2
2010	jan	121,786	7,668	1,293	1,536	112	6	20,570				152,971	39,701	64	2
2010	feb	121,899	7,665	1,293	1,541	112	6	20,592				153,108	39,837	64	2
2010	mar	122,202	7,671	1,293	1,533	113	6	20,614				153,432	39,974	64	2
2010	apr	122,353	7,671	1,293	1,533	114	6	20,636				153,606	40,111	62	2
2010	may	122,492	7,665	1,293	1,538	114	6	20,658				153,766	40,249	62	2
2010	jun	122,689	7,701	1,293	1,542	115	6	20,680				154,026	40,387	62	2
2010	jul	122,952	7,727	1,293	1,539	115	6	20,702				154,334	40,526	62	2
2010	aug	123,306	7,795	1,293	1,540	115	6	20,724				154,779	40,665	61	2
2010	sep	123,592	7,817	1,293	1,540	115	6	20,746				155,109	40,805	61	2
2010	oct	123,975	7,844	1,293	1,543	115	6	20,768				155,544	40,945	60	2
2010	nov	124,314	7,880	1,293	1,541	115	6	20,790				155,939	41,085	61	2
2010	dec	124,592	7,914	1,293	1,542	113	6	20,812				156,272	41,226	61	2
2011	jan	124,890	7,934	1,307	1,545	112	6	20,841	1	-	1	156,637	41,260	61	2
2011	feb	125,033	7,959	1,321	1,545	112	6	20,871	1	1	1	156,850	41,294	61	2
2011	mar	125,247	7,989	1,336	1,545	112	6	20,900	1	1	1	157,138	41,328	61	2
2011	apr	125,456	8,016	1,351	1,547	112	6	20,929	1	1	1	157,420	41,362	61	2
2011	may	125,752	8,027	1,366	1,544	112	6	20,959	1	1	1	157,769	41,396	61	2
2011	jun	126,132	8,062	1,381	1,545	111	6	20,988	1	1	1	158,228	41,439	61	2
2011	jul	126,396	8,083	1,385	1,541	112	6	21,018	1	1	1	158,544	41,434	61	2
2011	aug	126,670	8,103	1,389	1,544	112	6	21,047	1	2	1	158,875	41,362	61	2
2011	sep	127,049	8,135	1,392	1,522	112	6	21,077	1	2	1	159,297	41,547	61	2
2011	oct	127,445	8,172	1,400	1,522	112	6	21,107	1	2	1	159,768	41,684	61	2
2011	nov	127,774	8,225	1,398	1,521	112	6	21,136	1	2	1	160,176	41,755	62	2
2011	dec	127,956	8,259	1,400	1,523	112	6	21,166	1	3	1	160,427	41,780	62	2
2012	jan	128,080	8,241	1,405	1,523	113	6	21,196	1	4	1	160,570	41,894	61	2
2012	feb	128,321	8,262	1,408	1,524	112	6	21,225	1	4	1	160,864	41,979	61	2
2012	mar	128,513	8,279	1,414	1,524	112	6	21,255	1	4	1	161,109	42,058	61	2
2012	apr	128,731	8,292	1,420	1,515	112	6	21,285	1	4	1	161,367	42,166	61	2
2012	may	128,980	8,310	1,420	1,517	112	6	21,314	1	4	1	161,665	42,345	61	2
2012	jun	129,389	8,317	1,420	1,518	112	6	21,344	1	4	1	162,112	42,292	61	2
2012	jul	129,807	8,323	1,420	1,521	112	6	21,374	1	4	1	162,569	42,344	61	2
2012	aug	130,175	8,336	1,421	1,524	112	6	21,404	1	4	1	162,984	42,419	61	2
2012	sep	130,451	8,357	1,423	1,528	111	6	21,434	1	4	1	163,316	42,533	60	2
2012	oct	130,880	8,384	1,440	1,537	110	6	21,464	1	10	1	163,833	42,691	60	2
2012	nov	131,394	8,404	1,448	1,537	110	6	21,494	1	12	1	164,407	42,738	60	2
2012	dec	131,665	8,426	1,450	1,537	110	6	21,524	1	14	1	164,734	42,897	60	2
2013	jan	131,997	8,449	1,463	1,540	110	6	21,555	1	14	1	165,136	43,168	60	2
2013	feb	132,243	8,471	1,464	1,538	111	6	21,586	1	14	1	165,435	42,984	60	2
2013	mar	132,535	8,448	1,465	1,536	111	6	21,617	1	16	1	165,736	43,078	60	2
2013	apr	132,899	8,508	1,476	1,495	111	6	21,649	1	15	1	166,161	43,237	59	2
2013	may	133,254	8,518	1,478	1,497	117	6	21,680	1	17	1	166,569	43,420	59	2
2013	jun	133,451	8,515	1,479	1,499	117	6	21,711	1	20	1	166,800	43,469	59	2
2013	jul	133,791	8,528	1,481	1,502	117	6	21,743	1	21	1	167,191	43,568	59	2
2013	aug	134,201	8,528	1,480	1,505	117	6	21,774	1	21	1	167,634	43,695	58	2
2013	sep	134,508	8,538	1,482	1,507	117	6	21,805	1	21	1	167,986	43,733	58	2
2013	oct	134,865	8,550	1,486	1,504	118	6	21,837	1	21	1	168,389	43,871	58	2
2013	nov	135,318	8,595	1,485	1,506	118	6	21,868	1	22	1	168,920	43,926	58	2
2013	dec	135,612	8,735	1,487	1,508	118	6	21,900	1	23	1	169,391	44,045	58	2
2014	jan	135,872	8,738	1,492	1,507	118	6	21,920	1	26	1	169,681	44,175	58	2
2014	feb	136,132	8,742	1,497	1,506	117	6	21,940	1	29	1	169,971	44,304	58	2
2014	mar	136,392	8,745	1,502	1,505	117	6	21,959	1	32	1	170,261	44,434	58	2
2014	apr	136,653	8,749	1,507	1,504	116	6	21,979	1	35	1	170,551	44,563	58	2
2014	may	136,913	8,752	1,512	1,503	116	6	21,999	1	38	1	170,841	44,693	57	2
2014	jun	137,173	8,756	1,516	1,502	115	6	22,019	1	42	1	171,130	44,822	57	2
2014	jul	137,433	8,759	1,521	1,500	115	6	22,039	1	45	1	171,420	44,952	57	2
2014	aug	137,693	8,763	1,526	1,499	114	6	22,058	1	48	1	171,710	45,081	57	2
2014	sep	137,953	8,766	1,531	1,498	114	6	22,078	1	51	1	172,000	45,211	57	2
2014	oct	138,214	8,770	1,536	1,497	113	6	22,098	1	54	1	172,290	45,341	57	2

Number of Customers and Connections by Month

Year	Month	Residential	GS<50	USL - Connections	GS>50	Intermediate	Large User	Street Light - Connections	Embedded Distributor	Distributed Generation	Energy from Waste Genneration	Total	Street Light- Lamps	USL - Customers	Street Light- Customers
2014	nov	138,474	8,773	1,541	1,496	113	6	22,118	1	57	1	172,580	45,470	57	2
2014	dec	138,734	8,777	1,546	1,495	112	6	22,138	1	60	1	172,870	45,600	57	2
2015	jan	139,079	8,810	1,548	1,494	113	6	22,168	1	61	1	173,282	45,708	57	2
2015	feb	139,425	8,842	1,551	1,494	113	6	22,198	1	62	1	173,693	45,816	56	2
2015	mar	139,770	8,875	1,553	1,493	113	6	22,229	1	64	1	174,105	45,923	56	2
2015	apr	140,116	8,908	1,556	1,492	114	6	22,259	1	65	1	174,517	46,031	56	2
2015	may	140,461	8,940	1,558	1,492	114	6	22,289	1	66	1	174,928	46,139	56	2
2015	jun	140,806	8,973	1,560	1,491	114	6	22,319	1	67	1	175,340	46,247	56	2
2015	jul	141,152	9,006	1,563	1,490	115	6	22,350	1	68	1	175,752	46,355	56	2
2015	aug	141,497	9,039	1,565	1,490	115	6	22,380	1	69	1	176,163	46,463	56	2
2015	sep	141,843	9,071	1,568	1,489	116	6	22,410	1	71	1	176,575	46,571	56	2
2015	oct	142,188	9,104	1,570	1,488	116	6	22,441	1	72	1	176,987	46,679	55	2
2015	nov	142,534	9,137	1,573	1,488	116	6	22,471	1	73	1	177,398	46,787	55	2
2015	dec	142,879	9,169	1,575	1,487	117	6	22,501	1	74	1	177,810	46,895	55	2

Weather Normalized Data

Year	Month	Residential	GS<50	USL	GS>50	Intermediate	Large Use	Street Lighting	Embedded Distributor	Distributed Generation	Energy from Waste Generation	Total
2009	jan	118,598,263	28,619,587	445,252	103,289,050	64,424,376	30,113,962	3,002,875	2,351,425	-	-	350,844,789
2009	feb	107,071,455	28,182,117	445,252	97,690,730	61,815,917	29,094,164	2,487,553	1,978,025	-	-	328,765,213
2009	mar	90,868,324	24,534,550	445,252	104,715,318	68,379,224	32,323,109	2,478,839	1,985,241	-	-	325,729,857
2009	apr	95,708,545	25,431,086	445,252	91,084,277	65,392,820	28,206,089	2,078,755	1,658,882	-	-	310,005,706
2009	may	83,289,515	23,279,785	445,252	85,546,901	68,345,251	22,071,420	1,850,410	1,476,658	-	-	286,305,192
2009	jun	76,926,112	21,922,184	445,252	87,787,644	71,004,469	25,139,774	1,635,619	1,412,811	-	-	286,273,865
2009	jul	107,552,908	26,182,993	445,252	87,193,061	75,312,771	27,928,234	1,772,912	1,374,323	-	-	327,762,454
2009	aug	109,131,328	32,100,416	445,252	92,624,009	76,125,780	31,314,332	2,039,153	1,360,403	-	-	345,140,674
2009	sep	96,799,464	16,307,182	445,252	91,990,314	73,953,358	30,960,882	2,317,560	-	-	-	312,774,011
2009	oct	84,438,120	23,527,743	445,252	91,927,402	71,327,008	31,544,232	2,775,132	-	-	-	305,984,888
2009	nov	91,828,882	25,053,061	445,252	92,544,226	69,313,026	28,370,192	2,967,757	103,455	-	-	310,625,852
2009	dec	92,620,066	25,150,126	445,252	102,421,319	62,970,698	32,320,809	3,211,862	2,141,881	-	-	321,282,013
2010	jan	123,124,605	30,030,094	447,627	100,829,619	68,357,574	29,369,612	3,151,837	2,201,541	-	-	357,512,511
2010	feb	100,750,007	26,607,766	448,066	97,057,504	65,128,800	30,795,755	2,613,725	1,907,315	-	-	325,308,937
2010	mar	93,311,172	25,182,021	448,066	104,798,956	72,756,230	32,711,358	2,570,323	1,798,013	-	-	333,576,139
2010	apr	103,035,493	28,223,548	448,066	90,070,404	71,590,030	31,009,830	2,161,004	1,333,323	-	-	327,871,699
2010	may	72,373,830	21,211,900	460,902	87,417,046	75,879,167	31,909,523	1,925,854	2,466,013	-	-	293,644,235
2010	jun	94,534,190	23,166,158	441,276	91,518,022	80,043,941	30,129,045	1,691,206	2,205,127	-	-	323,728,966
2010	jul	124,097,363	25,544,685	445,057	92,936,013	81,522,097	28,527,956	1,830,102	1,164,160	-	-	356,067,434
2010	aug	128,698,777	25,584,978	526,055	94,829,892	82,176,844	34,258,495	2,121,317	1,165,536	-	-	369,361,895
2010	sep	112,397,013	25,716,505	450,300	92,871,674	75,245,117	32,675,913	2,383,503	1,101,811	-	-	342,841,835
2010	oct	84,312,490	23,538,565	455,995	88,955,430	73,008,036	31,399,057	2,835,027	1,222,932	-	-	305,727,531
2010	nov	85,178,204	23,245,922	403,206	93,468,845	72,344,420	28,056,417	3,042,503	1,360,691	-	-	307,100,208
2010	dec	96,952,217	25,617,051	465,303	101,526,343	64,817,924	29,387,270	3,331,010	1,787,298	-	-	323,884,416
2011	jan	122,033,956	29,993,960	464,657	101,299,330	70,367,055	31,634,283	3,288,240	2,590,223	-	-	361,671,703
2011	feb	104,898,902	28,506,463	468,054	100,095,661	64,123,420	32,011,944	2,757,058	4,588,940	19	-	337,450,462
2011	mar	94,576,351	27,005,621	469,351	105,879,187	72,469,791	35,752,112	2,715,053	2,896,351	137	-	341,763,954
2011	apr	96,111,586	27,024,813	476,257	90,682,170	67,870,001	32,719,563	2,288,195	2,290,438	113	-	319,463,136
2011	may	82,814,009	24,152,290	476,076	89,320,256	70,239,269	34,980,326	1,962,057	2,314,611	107	-	306,259,001
2011	jun	92,604,350	25,519,216	476,196	91,919,418	73,667,438	34,766,791	1,760,883	2,368,040	95	-	323,082,426
2011	jul	120,214,059	26,603,632	476,904	94,069,992	75,212,938	35,174,008	1,931,872	2,377,505	99	-	356,881,010
2011	aug	134,269,363	26,820,716	477,250	98,443,120	76,831,974	35,228,640	2,261,136	2,904,671	128	-	377,236,997
2011	sep	110,734,676	27,309,054	479,035	93,149,659	70,752,234	31,536,232	2,564,319	2,559,711	153	-	339,085,072
2011	oct	86,214,836	24,400,438	479,089	90,087,645	69,051,008	34,054,199	2,923,384	2,725,359	176	-	309,936,133
2011	nov	89,450,698	25,932,812	477,254	93,865,587	69,234,572	32,483,925	3,203,546	2,840,306	192	-	317,488,892
2011	dec	100,370,260	28,247,045	481,734	98,485,049	61,742,752	31,594,855	3,471,874	3,815,377	578	-	328,209,524
2012	jan	118,535,681	31,114,268	482,261	102,767,521	69,307,807	33,936,791	3,438,160	3,991,512	1,018	-	363,575,020
2012	feb	106,279,178	30,407,139	482,387	98,330,537	66,995,130	31,584,011	2,969,674	3,175,845	849	-	340,224,751
2012	mar	100,132,568	29,032,054	483,251	98,960,635	72,081,327	34,733,875	2,814,479	2,902,405	712	-	341,141,305
2012	apr	94,809,368	26,892,831	483,251	88,499,229	67,789,586	32,490,043	2,335,304	2,546,845	614	-	315,847,070
2012	may	74,764,088	23,858,991	483,251	93,252,482	74,164,187	35,715,121	2,063,663	2,489,016	460	-	306,791,260
2012	jun	101,015,986	25,808,928	484,023	94,785,126	73,132,101	35,660,186	1,845,080	2,727,280	420	-	335,459,132
2012	jul	136,931,738	27,289,411	484,077	98,715,331	73,321,461	34,438,874	1,974,762	3,160,006	454	-	376,316,113
2012	aug	137,002,479	28,452,630	484,327	98,956,490	74,233,617	38,440,564	2,279,655	2,809,346	502	-	382,659,609
2012	sep	117,289,753	27,518,142	485,791	91,964,965	68,922,458	35,328,755	2,559,703	2,479,553	558	-	346,549,678
2012	oct	80,476,834	24,038,289	486,134	92,196,308	71,134,837	35,249,465	2,936,690	2,562,899	1,508	-	309,082,963
2012	nov	91,729,759	26,155,779	490,868	95,786,344	69,778,849	33,210,549	3,214,802	2,821,863	3,301	-	323,192,114
2012	dec	104,474,896	29,222,207	488,051	96,869,986	62,811,049	30,725,747	3,570,371	3,357,264	4,629	-	331,524,200
2013	jan	120,179,198	31,974,497	490,421	100,597,485	69,869,314	32,278,031	3,460,843	3,438,504	4,675	-	362,292,967
2013	feb	106,948,782	29,282,849	491,686	92,950,524	61,396,744	29,167,074	2,867,016	3,028,565	5,095	-	326,138,334
2013	mar	94,113,395	27,434,117	504,705	91,722,140	65,635,266	30,612,037	2,845,958	3,019,497	3,534	-	315,890,648
2013	apr	100,866,123	28,599,502	495,384	90,404,512	70,347,085	30,298,296	2,388,376	2,667,741	2,828	-	326,069,847
2013	may	79,728,651	25,664,540	497,815	94,425,487	73,592,929	34,419,341	2,134,159	3,888,565	2,436	-	314,353,923
2013	jun	96,420,492	26,547,488	499,291	91,796,117	75,588,241	34,662,988	1,909,094	4,455,436	2,414	-	331,881,560
2013	jul	124,010,559	27,317,779	494,805	100,327,155	77,635,401	33,639,198	2,020,795	5,171,793	3,273	-	370,620,758
2013	aug	122,647,757	29,131,574	499,001	96,978,037	77,374,349	36,059,996	2,371,371	4,685,810	3,587	-	369,751,483
2013	sep	121,272,116	28,583,747	500,512	90,136,024	67,175,844	32,823,867	2,665,740	4,243,955	4,004	-	347,405,809

Weather Normalized Data

Year	Month	Residential	GS<50	USL	GS>50	Intermediate	Large Use	Street Lighting	Embedded Distributor	Distributed Generation	Energy from Waste Generation	Total
2013	oct	82,843,125	25,082,033	500,513	95,217,109	74,104,679	32,771,767	3,131,910	2,216,858	4,876	-	315,872,871
2013	nov	95,304,805	26,938,472	498,129	90,358,489	70,449,826	31,689,677	3,353,741	2,678,722	5,887	-	321,277,748
2013	dec	103,413,301	29,254,081	496,735	92,923,539	62,564,998	29,198,020	3,584,113	2,117,996	8,747	-	323,561,531

Year	Summary (Uplifted kWh)											Total
2009	1,154,832,982	300,290,830	5,343,026	1,128,814,249	828,364,697	349,387,197	28,618,426	15,843,105	-	-	-	3,811,494,512
2010	1,218,765,361	303,669,193	5,439,919	1,136,279,748	882,870,180	370,230,232	29,657,412	19,713,760	-	-	-	3,966,625,806
2011	1,234,293,046	321,516,060	5,701,857	1,147,297,072	841,562,452	401,936,878	31,127,617	35,091,532	1,797	-	-	4,018,528,311
2012	1,263,442,327	329,790,668	5,817,673	1,151,084,954	843,672,409	411,513,982	32,002,343	35,023,834	15,026	-	-	4,072,363,215
2013	1,247,748,306	335,810,680	5,969,000	1,127,836,615	845,734,676	387,620,292	32,733,115	41,613,442	51,355	-	-	4,025,117,481

Year	Loss Factor	Weather Normalized Billed Quantities (kWh) Non-Uplifted										Total
2009	1.0349	1,115,888,474	290,164,103	5,162,842	1,090,747,173	801,126,399	344,971,561	27,653,325	15,461,213	-	-	3,691,175,091
2010	1.0349	1,177,664,858	293,428,537	5,256,468	1,097,960,912	853,839,633	365,551,177	28,657,273	19,238,567	-	-	3,841,597,426
2011	1.0349	1,192,668,901	310,673,553	5,509,573	1,108,606,699	813,890,185	396,857,107	30,077,898	34,245,664	1,736	-	3,892,531,317
2012	1.0349	1,220,835,179	318,669,115	5,621,483	1,112,266,841	815,930,763	406,313,173	30,923,126	34,179,598	14,519	-	3,944,753,798
2013	1.0349	1,205,670,409	324,486,114	5,767,707	1,089,802,508	817,925,218	382,721,457	31,629,254	40,610,366	49,624	-	3,898,662,657

Ontario Real Gross Domestic Product

Ontario GDP Forecast			
	2013	2014	2015
Ministry of Finance	1.30%	2.10%	2.50%
Average	1.30%	2.10%	2.50%
Growth/Month	0.1077%	0.1733%	0.2060%

1.3000%

Ontario GDP in Millions																	
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
January	402,076	431,769	455,905	464,541	478,308	485,366	497,910	511,538	523,843	532,948	528,378	513,929	528,598	537,981	545,961	553,421	565,227
February	404,512	433,851	456,578	465,727	478,853	486,392	499,042	512,570	524,690	532,664	526,932	515,176	529,385	538,649	546,549	554,380	566,391
March	406,963	435,944	457,251	466,917	479,399	487,421	500,177	513,603	525,538	532,380	525,489	516,426	530,172	539,317	547,137	555,341	567,558
April	409,428	438,046	457,926	468,110	479,946	488,452	501,315	514,639	526,388	532,096	524,051	517,679	530,961	539,987	547,726	556,304	568,727
May	411,908	440,159	458,601	469,306	480,493	489,486	502,455	515,676	527,238	531,812	522,616	518,935	531,751	540,657	548,316	557,268	569,898
June	414,404	442,281	459,278	470,505	481,041	490,521	503,598	516,716	528,091	531,528	521,186	520,194	532,542	541,328	548,907	558,234	571,072
July	416,914	444,414	459,955	471,707	481,589	491,559	504,743	517,758	528,944	531,244	519,759	521,456	533,334	542,001	549,498	559,202	572,249
August	419,440	446,557	460,633	472,912	482,138	492,599	505,891	518,801	529,799	530,961	518,337	522,721	534,128	542,673	550,090	560,171	573,427
September	421,981	448,711	461,313	474,120	482,688	493,641	507,042	519,847	530,656	530,677	516,918	523,990	534,923	543,347	550,682	561,142	574,608
October	424,538	450,875	461,993	475,331	483,238	494,685	508,195	520,895	531,513	530,394	515,503	525,261	535,718	544,022	551,275	562,115	575,792
November	427,110	453,049	462,675	476,546	483,789	495,731	509,351	521,946	532,372	530,111	514,092	526,535	536,515	544,697	551,869	563,089	576,978
December	429,697	455,234	463,357	477,763	484,341	496,780	510,509	522,998	533,233	529,828	512,685	527,813	537,314	545,373	552,463	564,065	578,167

Ontario GDP in Millions																	
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
January	84.158%	90.373%	95.425%	97.232%	100.114%	101.591%	104.217%	107.069%	109.645%	111.551%	110.594%	107.570%	110.640%	112.604%	114.274%	115.836%	118.307%
February	84.668%	90.809%	95.566%	97.481%	100.228%	101.806%	104.454%	107.285%	109.822%	111.491%	110.291%	107.831%	110.805%	112.744%	114.397%	116.037%	118.551%
March	85.181%	91.247%	95.707%	97.730%	100.342%	102.022%	104.691%	107.502%	110.000%	111.432%	109.990%	108.092%	110.970%	112.884%	114.521%	116.238%	118.795%
April	85.697%	91.687%	95.848%	97.980%	100.457%	102.237%	104.930%	107.718%	110.178%	111.372%	109.688%	108.355%	111.135%	113.024%	114.644%	116.439%	119.040%
May	86.216%	92.129%	95.989%	98.230%	100.571%	102.454%	105.168%	107.936%	110.356%	111.313%	109.388%	108.618%	111.300%	113.164%	114.767%	116.641%	119.285%
June	86.738%	92.573%	96.131%	98.481%	100.686%	102.670%	105.407%	108.153%	110.534%	111.253%	109.089%	108.881%	111.466%	113.305%	114.891%	116.843%	119.530%
July	87.264%	93.020%	96.273%	98.732%	100.801%	102.888%	105.647%	108.371%	110.713%	111.194%	108.790%	109.145%	111.632%	113.445%	115.015%	117.046%	119.777%
August	87.793%	93.468%	96.415%	98.985%	100.916%	103.105%	105.887%	108.590%	110.892%	111.135%	108.492%	109.410%	111.798%	113.586%	115.139%	117.249%	120.023%
September	88.324%	93.919%	96.557%	99.237%	101.031%	103.323%	106.128%	108.809%	111.071%	111.075%	108.195%	109.676%	111.964%	113.727%	115.263%	117.452%	120.271%
October	88.859%	94.372%	96.699%	99.491%	101.146%	103.542%	106.370%	109.028%	111.250%	111.016%	107.899%	109.942%	112.131%	113.869%	115.387%	117.656%	120.518%
November	89.398%	94.827%	96.842%	99.745%	101.261%	103.761%	106.612%	109.248%	111.430%	110.957%	107.604%	110.209%	112.297%	114.010%	115.511%	117.859%	120.767%
December	89.939%	95.284%	96.985%	100.000%	101.377%	103.980%	106.854%	109.468%	111.610%	110.898%	107.309%	110.476%	112.464%	114.151%	115.635%	118.064%	121.015%

Distribution Rates

Class	Metric	2009 Approved Distribution Rates	2010 Approved Distribution Rates	2011 Approved Distribution Rates	2011 Approved Distribution Rates	2012 Approved Distribution Rates	2013 Approved Distribution Rates	2014 Approved Distribution Rates	2015 Proposed Distribution Rates
Residential	Customer kWh	10.67 0.0157	10.60 0.0154	9.75 0.0142	9.75 0.0142	9.83 0.0143	10.23 0.0145	10.51 0.0147	12.93 0.0137
GS <50 kW	Customer kWh Tx Credit kWh	20.52 0.0000 0.0181	20.27 0.0000 0.0178	17.61 0.0000 0.0155	17.61 0.0000 0.0155	17.75 0.0000 0.0156	22.09 0.0000 0.0158	24.39 0.0000 0.0160	30.21 (0.0033) 0.0138
GS>50 kW	Customer kW kW Tx Credit kWh	103.41 2.3354 (0.6000) 0.00	101.68 2.2935 (0.6000) 0.00	107.48 2.4192 (0.7048) 0.00	107.48 2.4192 (0.7048) 0.00	108.32 2.4381 (0.7048) 0.00	116.33 2.4693 (0.7048) 0.00	121.18 2.5039 (0.7048) 0.00	183.15 2.6224 (0.7019) 0.00
Intermediate	Customer kW kW Tx Credit kWh	1,436.09 3.8037 (0.6000) 0.00	1,410.45 3.7355 (0.6000) 0.00	1,227.95 3.5321 (0.8758) 0.00	1,227.95 3.5321 (0.8758) 0.00	1,164.89 3.3507 (0.8758) 0.00	1,179.80 3.3936 (0.8758) 0.00	1,196.32 3.4411 (0.8758) 0.00	1,435.10 3.0427 (0.8737) 0.00
Large Use >5MW	Customer kW kW Tx Credit kWh	4,808.45 2.9553 (0.6000) 0.00	4,722.33 2.9023 (0.6000) 0.00	4,395.85 2.1293 0.0000 0.00	4,395.85 2.1293 0.0000 0.00	4,430.14 2.1459 0.0000 0.00	4,486.85 2.1734 0.0000 0.00	4,549.67 2.2038 0.0000 0.00	9,212.02 2.1495 0.0000 0.00
Street Light	Connection kW kWh	0.00 2.2449 0.0000	0.00 2.2046 0.0000	0.47 4.8973 0.0000	0.47 4.8973 0.0000	0.82 8.5207 0.0000	0.83 8.6298 0.0000	0.84 8.7506 0.0000	3.39 7.3844 0.0000
Unmetered Scattered Load	Customer Connection kWh	20.52 0.00 0.0181	20.15 0.00 0.0178	0.93 0.93 0.0171	0.93 0.93 0.0171	0.94 0.94 0.0172	0.95 0.95 0.0174	0.96 0.96 0.0176	3.06 3.06 0.0145
Embedded Distributor	Customer kW kWh	0.00 0.0612 0.0000	0.00 0.0612 0.0000	0.00 0.0612 0.0000	0.00 0.0612 0.0000	0.00 0.0617 0.0000	0.00 0.0625 0.0000	0.00 0.0634 0.0000	4,106.75 0.0000 0.0000
Distributed Generation Class	Customer kW kWh	0.00 0.0000 0.0000	0.00 0.0000 0.0000	0.00 0.0000 0.0000	5.40 0.0000 0.0155	5.40 0.0000 0.0156	5.40 0.0000 0.0158	5.40 0.0000 0.0160	21.03 0.0000 0.1624
Energy from Waste Generation	Customer kW kWh	0.00 0.0000 0.0000	0.00 0.0000 0.0000	0.00 0.0000 0.0000	0.00 0.0000 0.0000	0.00 0.0000 0.0000	0.00 0.0000 0.0000	0.00 0.0000 0.0000	62.25 0.0000 0.0000
Backup/Standby Power	Customer kW kWh	0.00 1.5047 0.0000	0.00 1.5047 0.0000	0.00 0.00 0.00	0.00 0.0000 0.0000	0.00 0.0000 0.0000	0.00 1.5358 0.0000	0.00 1.5573 0.0000	0.00 1.6605 0.0000

EXHIBIT 3: Operating Revenue

TAB 4 (of 4)

HOBNI Class Specific Multivariate Regression Model

<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Number of Customers</u>	<u>Population</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
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2004	Jan-04	100,143,636	849.1	0.0	101.59%	31.0	0.0	336.0	95,064	373,417	92,845,629	-7,298,007	-7.29%
2004	Feb-04	87,647,207	631.7	0.0	101.81%	29.0	0.0	320.0	95,895	374,833	87,916,223	269,016	0.31%
2004	Mar-04	71,845,735	487.3	0.0	102.02%	31.0	1.0	368.0	96,285	376,250	72,754,069	908,334	1.26%
2004	Apr-04	82,063,258	331.5	0.0	102.24%	30.0	1.0	336.0	96,725	377,667	72,999,312	-9,063,946	-11.05%
2004	May-04	70,266,359	158.9	8.6	102.45%	31.0	1.0	320.0	97,077	379,083	73,636,762	3,370,403	4.80%
2004	Jun-04	66,433,287	44.2	31.6	102.67%	30.0	0.0	352.0	97,807	380,500	74,642,451	8,209,164	12.36%
2004	Jul-04	85,771,389	3.6	86.4	102.89%	31.0	0.0	336.0	98,313	381,917	94,003,178	8,231,789	9.60%
2004	Aug-04	90,532,320	12.8	59.6	103.11%	31.0	0.0	336.0	99,031	383,333	86,318,537	-4,213,783	-4.65%
2004	Sep-04	83,924,386	30.0	41.2	103.32%	30.0	1.0	336.0	99,957	384,750	77,676,808	-6,247,578	-7.44%
2004	Oct-04	72,669,406	226.3	1.5	103.54%	31.0	1.0	320.0	100,574	386,167	75,352,534	2,683,128	3.69%
2004	Nov-04	69,069,532	379.1	0.0	103.76%	30.0	1.0	352.0	101,456	387,583	74,093,715	5,024,183	7.27%
2004	Dec-04	86,082,290	643.4	0.0	103.98%	31.0	0.0	336.0	102,070	389,000	89,696,584	3,614,294	4.20%
2005	Jan-05	104,838,692	770.0	0.0	104.22%	31.0	0.0	320.0	102,392	391,000	96,789,676	-8,049,016	-7.68%
2005	Feb-05	89,341,121	616.4	0.0	104.45%	28.0	0.0	320.0	102,796	393,000	90,373,946	1,032,825	1.16%
2005	Mar-05	81,893,716	608.6	0.0	104.69%	31.0	0.0	352.0	103,098	395,000	82,971,521	1,077,805	1.32%
2005	Apr-05	82,047,835	306.8	0.0	104.93%	30.0	1.0	336.0	103,554	397,000	75,701,818	-6,346,017	-7.73%
2005	May-05	70,819,396	189.4	0.8	105.17%	31.0	1.0	336.0	103,932	399,000	72,916,079	2,096,683	2.96%
2005	Jun-05	85,829,567	8.9	146.3	105.41%	30.0	0.0	352.0	104,397	401,000	112,610,220	26,780,653	31.20%
2005	Jul-05	133,054,364	0.0	188.7	105.65%	31.0	0.0	320.0	104,872	403,000	131,947,033	-1,107,331	-0.83%
2005	Aug-05	116,855,067	0.2	140.7	105.89%	31.0	0.0	352.0	105,326	405,000	111,644,663	-5,210,404	-4.46%
2005	Sep-05	99,779,320	22.6	52.1	106.13%	30.0	1.0	336.0	106,046	407,000	84,051,763	-15,727,557	-15.76%
2005	Oct-05	78,116,059	220.2	7.6	106.37%	31.0	1.0	320.0	106,556	409,000	80,239,244	2,123,185	2.72%
2005	Nov-05	74,953,612	388.4	0.0	106.61%	30.0	1.0	352.0	107,280	411,000	77,520,107	2,566,495	3.42%
2005	Dec-05	86,741,676	665.3	0.0	106.85%	31.0	0.0	320.0	107,609	413,000	96,219,633	9,477,957	10.93%
2006	Jan-06	102,626,084	551.8	0.0	107.07%	31.0	0.0	336.0	108,069	414,667	89,978,299	-12,647,785	-12.32%
2006	Feb-06	86,877,874	604.3	0.0	107.29%	28.0	0.0	320.0	108,299	416,333	92,955,615	6,077,741	7.00%
2006	Mar-06	83,972,818	516.6	0.0	107.50%	31.0	1.0	368.0	108,662	418,000	80,178,593	-3,794,225	-4.52%
2006	Apr-06	87,386,872	293.3	0.0	107.72%	30.0	1.0	304.0	108,948	419,667	83,790,986	-3,595,886	-4.11%
2006	May-06	65,814,615	136.9	26.0	107.94%	31.0	1.0	352.0	109,247	421,333	79,112,383	13,297,768	20.20%
2006	Jun-06	87,554,414	19.5	73.6	108.15%	30.0	0.0	352.0	109,426	423,000	93,051,402	5,496,988	6.28%
2006	Jul-06	115,892,341	0.0	167.3	108.37%	31.0	0.0	320.0	109,726	424,667	127,919,429	12,027,088	10.38%
2006	Aug-06	122,691,507	4.2	101.6	108.59%	31.0	0.0	352.0	110,151	426,333	102,217,742	-20,473,765	-16.69%
2006	Sep-06	90,273,997	80.9	12.9	108.81%	30.0	1.0	320.0	110,556	428,000	79,005,484	-11,268,513	-12.48%
2006	Oct-06	70,418,334	288.3	1.1	109.03%	31.0	1.0	336.0	111,244	429,667	80,144,481	9,726,147	13.81%
2006	Nov-06	81,088,193	382.2	0.0	109.25%	30.0	1.0	352.0	111,412	431,333	79,582,523	-1,505,670	-1.86%
2006	Dec-06	91,101,711	500.5	0.0	109.47%	31.0	0.0	304.0	111,598	433,000	95,881,773	4,780,062	5.25%
2007	Jan-07	96,647,423	647.1	0.0	109.65%	31.0	0.0	352.0	111,983	434,417	92,404,613	-4,242,810	-4.39%
2007	Feb-07	105,695,411	740.1	0.0	109.82%	28.0	0.0	320.0	112,259	435,833	99,520,830	-6,174,581	-5.84%
2007	Mar-07	89,942,669	546.7	0.0	110.00%	31.0	0.0	352.0	112,520	437,250	86,079,384	-3,863,285	-4.30%
2007	Apr-07	85,711,644	356.4	0.0	110.18%	30.0	1.0	320.0	112,804	438,667	85,137,499	-574,145	-0.67%
2007	May-07	72,577,360	136.4	22.4	110.36%	31.0	1.0	352.0	113,200	440,083	80,131,111	7,553,751	10.41%
2007	Jun-07	94,967,423	16.5	99.2	110.53%	30.0	0.0	336.0	113,547	441,500	105,961,098	10,993,675	11.58%
2007	Jul-07	109,012,605	3.2	106.1	110.71%	31.0	0.0	336.0	114,103	442,917	108,517,547	-495,058	-0.45%
2007	Aug-07	118,290,341	5.2	141.0	110.89%	31.0	0.0	352.0	114,683	444,333	116,929,366	-1,360,975	-1.15%
2007	Sep-07	107,596,866	36.9	47.5	111.07%	30.0	1.0	304.0	115,068	445,750	93,563,018	-14,033,848	-13.04%
2007	Oct-07	75,610,670	137.7	19.8	111.25%	31.0	1.0	352.0	115,774	447,167	80,689,452	5,078,782	6.72%
2007	Nov-07	82,907,242	462.5	0.0	111.43%	30.0	1.0	352.0	116,461	448,583	84,834,891	1,927,649	2.33%
2007	Dec-07	102,589,443	630.7	0.0	111.61%	31.0	0.0	304.0	117,024	450,000	102,924,304	384,861	0.33%
2008	Jan-08	101,798,376	623.5	0.0	111.55%	31.0	0.0	352.0	117,488	451,250	94,521,535	-7,276,841	-7.15%
2008	Feb-08	103,373,674	674.7	0.0	111.49%	29.0	0.0	320.0	117,900	452,500	100,920,649	-2,453,025	-2.37%
2008	Mar-08	97,635,202	610.2	0.0	111.43%	31.0	1.0	304.0	118,156	453,750	99,539,533	1,904,331	1.95%
2008	Apr-08	77,427,839	253.9	0.0	111.37%	30.0	1.0	352.0	118,500	455,000	79,221,901	1,794,062	2.32%
2008	May-08	78,920,457	193.5	2.5	111.31%	31.0	1.0	336.0	118,823	456,250	81,600,497	2,680,040	3.40%
2008	Jun-08	86,543,923	22.7	71.5	111.25%	30.0	0.0	336.0	118,969	457,500	100,468,108	13,924,185	16.09%
2008	Jul-08	110,500,461	1.0	111.0	111.19%	31.0	0.0	352.0	119,282	458,750	109,990,499	-509,962	-0.46%
2008	Aug-08	116,167,597	12.7	64.0	111.13%	31.0	0.0	320.0	119,438	460,000	101,474,801	-14,692,796	-12.65%
2008	Sep-08	95,168,168	59.0	26.7	111.08%	30.0	1.0	336.0	119,587	461,250	84,738,743	-10,429,425	-10.96%
2008	Oct-08	78,737,248	278.6	0.0	111.02%	31.0	1.0	352.0	119,951	462,500	81,497,087	2,759,839	3.51%
2008	Nov-08	90,034,914	451.6	0.0	110.96%	30.0	1.0	304.0	120,231	463,750	95,142,111	5,107,197	5.67%
2008	Dec-08	92,116,228	654.6	0.0	110.90%	31.0	0.0	336.0	120,395	465,000	100,140,975	8,024,747	8.71%
2009	Jan-09	119,021,454	830.2	0.0	110.59%	31.0	0.0	336.0	120,546	467,667	105,997,537	-13,023,917	-10.94%
2009	Feb-09	103,885,776	606.4	0.0	110.29%	28.0	0.0	304.0	120,596	470,333	102,827,351	-1,058,425	-1.02%
2009	Mar-09	88,019,186	533.8	0.0	109.99%	31.0	1.0	352.0	120,697	473,000	90,489,657	2,470,471	2.81%
2009	Apr-09	93,092,071	305.8	1.2	109.69%	30.0	1.0	320.0	120,743	475,667	88,665,569	-4,426,502	-4.75%
2009	May-09	79,918,980	158.8	6.9	109.39%	31.0	1.0	320.0	120,836	478,333	86,378,674	6,459,694	8.08%
2009	Jun-09	74,470,543	49.3	34.2	109.09%	30.0	0.0	352.0	120,918	481,000	88,665,932	14,195,389	19.06%
2009	Jul-09	99,820,428	6.2	43.7	108.79%	31.0	0.0	352.0	121,070	483,667	90,953,231	-8,867,197	-8.88%
2009	Aug-09	110,640,785	9.8	91.0	108.49%	31.0	0.0	320.0	121,201	486,333	111,568,695	927,910	0.84%
2009	Sep-09	96,007,958	55.2	20.9	108.20%	30.0	1.0	336.0	121,267	489,000	84,617,327	-11,390,631	-11.86%
2009	Oct-09	83,699,628	287.8	0.0	107.90%	31.0	1.0	336.0	121,405	491,667	86,364,090	2,664,462	3.18%
2009	Nov-09	87,785,678	361.2	0.0	107.60%	30.0	1.0	320.0	121,519	494,333	91,147,407	3,361,729	3.83%
2009	Dec-09	90,946,365	631.3	0.0	107.31%	31.0	0.0	352.0	121,692	497,000	98,382,793	7,436,428	8.18%

	Purchased	Heating Degree Days	Cooling Degree Days	Ontario Real GDP	Number of Days in					Number of	Number of					
			Days	Monthly %	Month	Spring	Fall	Flag	Peak Hours	Customers	Population	Predicted Purchases	Variances (kWh)	% Variance		
Jan-10	120,063,979	720.0	0.0	107.57%	31.0	0.0	0.0	320.0	121,786	497,583	106,909,865	-13,154,114	-10.96%			
Feb-10	98,456,028	598.3	0.0	107.83%	28.0	0.0	0.0	304.0	121,899	498,167	104,158,350	5,702,322	5.79%			
Mar-10	87,368,082	422.8	0.0	108.09%	31.0	1.0	0.0	368.0	122,202	498,750	85,667,503	-1,700,579	-1.95%			
Apr-10	96,628,803	225.1	0.0	108.35%	30.0	1.0	0.0	320.0	122,353	499,333	87,202,295	-9,426,508	-9.76%			
May-10	73,968,093	107.9	45.7	108.62%	31.0	1.0	0.0	320.0	122,492	499,917	98,242,052	24,273,959	32.82%			
Jun-10	94,800,668	21.7	58.7	108.88%	30.0	0.0	0.0	352.0	122,689	500,500	96,780,464	1,979,796	2.09%			
Jul-10	132,121,541	1.8	164.9	109.15%	31.0	0.0	0.0	336.0	122,952	501,083	132,665,088	543,547	0.41%			
Aug-10	136,572,222	2.1	138.8	109.41%	31.0	0.0	0.0	336.0	123,306	501,667	124,711,614	-11,860,608	-8.68%			
Sep-10	111,368,709	78.2	31.5	109.68%	30.0	1.0	0.0	336.0	123,592	502,250	89,983,547	-21,385,162	-19.20%			
Oct-10	81,864,104	241.6	0.0	109.94%	31.0	1.0	0.0	320.0	123,975	502,833	89,008,550	7,144,446	8.73%			
Nov-10	83,013,693	405.3	0.0	110.21%	30.0	1.0	0.0	336.0	124,314	503,417	91,095,744	8,082,051	9.74%			
Dec-10	96,787,180	676.2	0.0	110.48%	31.0	0.0	0.0	368.0	124,592	504,000	98,299,181	1,512,001	1.56%			
Jan-11	120,354,758	775.3	0.0	110.64%	31.0	0.0	0.0	320.0	124,890	505,659	110,106,316	-10,248,442	-8.52%			
Feb-11	103,643,673	654.2	0.0	110.80%	28.0	0.0	0.0	304.0	125,033	507,319	107,426,330	3,782,657	3.65%			
Mar-11	92,899,388	572.8	0.0	110.97%	31.0	1.0	0.0	368.0	125,247	508,978	91,978,237	-921,151	-0.99%			
Apr-11	94,490,965	332.3	0.0	111.13%	30.0	1.0	0.0	304.0	125,456	510,637	95,001,898	510,933	0.54%			
May-11	80,836,537	134.1	13.0	111.30%	31.0	1.0	0.0	336.0	125,752	512,296	87,736,766	6,900,229	8.54%			
Jun-11	92,320,074	19.0	52.2	111.47%	30.0	0.0	0.0	352.0	126,132	513,956	96,426,249	4,106,175	4.45%			
Jul-11	130,690,031	0.0	198.6	111.63%	31.0	0.0	0.0	320.0	126,396	515,615	147,697,685	17,007,654	13.01%			
Aug-11	139,663,014	0.0	122.2	111.80%	31.0	0.0	0.0	352.0	126,670	517,274	118,463,632	-21,199,382	-15.18%			
Sep-11	112,075,131	48.2	39.7	111.96%	30.0	1.0	0.0	336.0	127,049	518,933	93,441,030	-18,634,101	-16.63%			
Oct-11	84,690,144	235.5	2.4	112.13%	31.0	1.0	0.0	336.0	127,445	520,593	88,670,076	3,979,932	4.70%			
Nov-11	84,908,722	342.1	0.0	112.30%	30.0	1.0	0.0	352.0	127,774	522,252	88,195,234	3,286,				

Regression Model for Residential

Purchased	Heating Degree Days	Cooling Degree Days	Ontario Real GDP Monthly %	Number of Days in Month	Spring Fall Flag	Number of Peak Hours	Number of Customers	Population	Predicted Purchases	Variances (kWh)	% Variance
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	Actual	Predicted	Variance (kWh)	Variace %
2001				
2002				
2003				
2004	966,448,805	971,935,800	-5,486,995	-0.57%
2005	1,104,270,425	1,112,985,702	-8,715,277	-0.79%
2006	1,085,698,760	1,083,818,710	1,880,050	0.17%
2007	1,141,549,097	1,136,693,112	4,855,985	0.43%
2008	1,128,424,087	1,129,256,438	-832,351	-0.07%
2009	1,127,308,852	1,126,058,262	1,250,590	0.11%
2010	1,213,013,102	1,204,724,253	8,288,849	0.68%
2011	1,232,108,735	1,226,405,122	5,703,613	0.46%
2012	1,254,347,766	1,249,757,733	4,590,033	0.37%
2013	1,239,834,211	1,251,368,707	-11,534,496	-0.93%
2014		1,281,022,599		
2015		1,300,300,348		

Total	11,493,003,840	11,493,003,840	0
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SUMMARY OUTPUT

Regression Statistics	
Multiple R	83.99%
R Square	70.55%
Adjusted R Square	68.43%
Standard Error	9,799,579.82
Observations	120

ANOVA					
	df	SS	MS	F	Significance F
Regression	8	2.5533E+16	3.19163E+15	33.24	0.0000
Residual	111	1.06595E+16	9.60318E+13		
Total	119	3.61925E+16			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	61,324,081.86	68,444,096.17	0.8960	0.3722	-74302459.61	196950623.3	-74302459.61	196950623.3
Heating Degree Days	32,377.38	6,031.67	5.3679	0.0000	20425.22276	44329.53924	20425.22276	44329.53924
Cooling Degree Days	311,189.44	34,809.11	8.9399	0.0000	242212.8784	380166.0074	242212.8784	380166.0074
Ontario Real GDP Monthly %	(9,017,782.03)	92,775,105.07	(0.0972)	0.9227	-192857840.4	174822276.3	-192857840.4	174822276.3
Number of Days in Month	555,345.31	1,233,338.78	0.4503	0.6534	-1888597.734	2999288.355	-1888597.734	2999288.355
Spring Fall Flag	(3,372,758.63)	2,548,357.58	(1.3235)	0.1884	-8422499.139	1676981.871	-8422499.139	1676981.871
Number of Peak Hours	(175,578.10)	56,071.44	(3.1313)	0.0022	-286687.3982	-64468.80261	-286687.3982	-64468.80261
Number of Customers	471.38	999.29	0.4717	0.6381	-1508.767928	2451.535228	-1508.767928	2451.535228
Population	27.20	158.48	0.1717	0.8640	-286.8348765	341.241207	-286.8348765	341.241207

Regression Model for General Service < 50 kW

		<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Number of Customers</u>	<u>Population</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
2004	Jan-04	26,094,845	849.1	0.0	101.59%	31.0	0.0	336.0	6,544	373,417	25,569,937	-524,908	-2.01%
2004	Feb-04	25,477,138	631.7	0.0	101.81%	29.0	0.0	320.0	6,589	374,833	25,109,653	-367,485	-1.44%
2004	Mar-04	21,012,918	487.3	0.0	102.02%	31.0	1.0	368.0	6,604	376,250	21,740,218	727,300	3.46%
2004	Apr-04	24,139,975	331.5	0.0	102.24%	30.0	1.0	336.0	6,606	377,667	22,111,185	-2,028,790	-8.40%
2004	May-04	21,593,293	158.9	8.6	102.45%	31.0	1.0	320.0	6,609	379,083	22,096,078	502,785	2.33%
2004	Jun-04	20,478,439	44.2	31.6	102.67%	30.0	0.0	352.0	6,615	380,500	21,647,989	1,169,550	5.71%
2004	Jul-04	24,240,608	3.6	86.4	102.89%	31.0	0.0	336.0	6,600	381,917	23,676,451	-564,156	-2.33%
2004	Aug-04	22,474,547	12.8	59.6	103.11%	31.0	0.0	336.0	6,651	383,333	23,112,989	638,442	2.84%
2004	Sep-04	22,880,474	30.0	41.2	103.32%	30.0	1.0	336.0	6,691	384,750	21,970,730	-909,744	-3.98%
2004	Oct-04	21,225,576	226.3	1.5	103.54%	31.0	1.0	320.0	6,703	386,167	22,552,159	1,326,583	6.25%
2004	Nov-04	20,014,142	379.1	0.0	103.76%	30.0	1.0	352.0	6,770	387,583	22,294,699	2,280,557	11.39%
2004	Dec-04	23,880,235	643.4	0.0	103.98%	31.0	0.0	336.0	6,797	389,000	25,303,482	1,423,247	5.96%
2005	Jan-05	27,353,999	770.0	0.0	104.22%	31.0	0.0	320.0	6,823	391,000	26,708,426	-645,573	-2.36%
2005	Feb-05	25,071,643	616.4	0.0	104.45%	28.0	0.0	320.0	6,832	393,000	25,753,498	681,855	2.72%
2005	Mar-05	24,188,469	608.6	0.0	104.69%	31.0	1.0	352.0	6,860	395,000	23,847,463	-341,005	-1.41%
2005	Apr-05	24,302,510	306.8	0.0	104.93%	30.0	1.0	336.0	6,838	397,000	22,665,588	-1,636,922	-6.74%
2005	May-05	22,423,980	189.4	0.8	105.17%	31.0	1.0	336.0	6,864	399,000	22,161,882	-262,098	-1.17%
2005	Jun-05	23,928,235	8.9	146.3	105.41%	30.0	0.0	352.0	6,870	401,000	25,680,128	1,751,894	7.32%
2005	Jul-05	28,807,581	0.0	188.7	105.65%	31.0	0.0	320.0	6,891	403,000	28,281,090	-526,491	-1.83%
2005	Aug-05	26,138,601	0.2	140.7	105.89%	31.0	0.0	352.0	6,895	405,000	25,539,178	-599,423	-2.29%
2005	Sep-05	26,023,617	22.6	52.1	106.13%	30.0	1.0	336.0	6,931	407,000	22,906,970	-3,116,647	-11.98%
2005	Oct-05	22,977,259	220.2	7.6	106.37%	31.0	1.0	320.0	6,940	409,000	23,322,396	345,137	1.50%
2005	Nov-05	22,311,103	388.4	0.0	106.61%	30.0	1.0	352.0	6,965	411,000	22,771,675	460,572	2.06%
2005	Dec-05	24,812,891	665.3	0.0	106.85%	31.0	0.0	320.0	6,991	413,000	26,466,842	1,653,952	6.67%
2006	Jan-06	27,457,173	551.8	0.0	107.07%	31.0	0.0	336.0	7,029	414,667	25,342,610	-2,114,563	-7.70%
2006	Feb-06	25,364,554	604.3	0.0	107.29%	28.0	0.0	320.0	7,051	416,333	26,215,390	850,836	3.35%
2006	Mar-06	23,808,899	516.6	0.0	107.50%	31.0	1.0	368.0	7,047	418,000	23,107,511	-701,389	-2.95%
2006	Apr-06	25,520,411	293.3	0.0	107.72%	30.0	1.0	304.0	7,042	419,667	24,345,688	-1,174,723	-4.60%
2006	May-06	20,926,756	136.9	26.0	107.94%	31.0	1.0	352.0	7,046	421,333	22,394,661	1,467,905	7.01%
2006	Jun-06	24,140,143	19.5	73.6	108.15%	30.0	0.0	352.0	7,046	423,000	23,916,650	-223,493	-0.93%
2006	Jul-06	26,672,689	0.0	167.3	108.37%	31.0	0.0	320.0	7,054	424,667	27,963,821	1,291,132	4.84%
2006	Aug-06	25,997,349	4.2	101.6	108.59%	31.0	0.0	352.0	7,065	426,333	24,745,875	-1,251,474	-4.81%
2006	Sep-06	24,758,830	80.9	12.9	108.81%	30.0	1.0	320.0	7,074	428,000	22,938,132	-1,820,698	-7.35%
2006	Oct-06	21,204,405	288.3	1.1	109.03%	31.0	1.0	336.0	7,141	429,667	23,375,677	2,171,272	10.24%
2006	Nov-06	23,229,898	382.2	0.0	109.25%	30.0	1.0	352.0	7,148	431,333	23,183,297	-46,601	-0.20%
2006	Dec-06	25,587,668	500.5	0.0	109.47%	31.0	0.0	304.0	7,161	433,000	26,600,015	1,012,347	3.96%
2007	Jan-07	25,081,163	647.1	0.0	109.65%	31.0	0.0	352.0	7,199	434,417	25,628,888	547,725	2.18%
2007	Feb-07	28,952,050	740.1	0.0	109.82%	28.0	0.0	320.0	7,208	435,833	27,308,531	-1,643,519	-5.68%
2007	Mar-07	25,748,473	546.7	0.0	110.00%	31.0	1.0	352.0	7,234	437,250	24,389,417	-1,359,056	-5.28%
2007	Apr-07	25,019,788	356.4	0.0	110.18%	30.0	1.0	320.0	7,245	438,667	24,605,500	-414,288	-1.66%
2007	May-07	23,360,194	136.4	22.4	110.36%	31.0	1.0	352.0	7,258	440,083	22,875,826	-484,368	-2.07%
2007	Jun-07	26,003,257	16.5	99.2	110.53%	30.0	0.0	336.0	7,271	441,500	25,962,473	-40,784	-0.16%
2007	Jul-07	26,124,275	3.2	106.1	110.71%	31.0	0.0	336.0	7,283	442,917	26,164,871	40,596	0.16%
2007	Aug-07	26,552,525	5.2	141.0	110.89%	31.0	0.0	352.0	7,318	444,333	26,719,161	166,636	0.63%
2007	Sep-07	27,464,585	36.9	47.5	111.07%	30.0	1.0	304.0	7,322	445,750	25,138,935	-2,325,651	-8.47%
2007	Oct-07	22,207,166	137.7	19.8	111.25%	31.0	1.0	352.0	7,358	447,167	23,110,406	903,240	4.07%
2007	Nov-07	24,780,730	462.5	0.0	111.43%	30.0	1.0	352.0	7,396	448,583	24,387,510	-393,220	-1.59%
2007	Dec-07	28,139,373	630.7	0.0	111.61%	31.0	0.0	304.0	7,440	450,000	28,211,773	72,400	0.26%
2008	Jan-08	26,103,597	623.5	0.0	111.55%	31.0	0.0	352.0	7,434	451,250	26,191,732	88,134	0.34%
2008	Feb-08	27,761,619	674.7	0.0	111.49%	29.0	0.0	320.0	7,428	452,500	27,597,365	-164,254	-0.59%
2008	Mar-08	26,806,415	610.2	0.0	111.43%	31.0	1.0	304.0	7,437	453,750	27,162,250	355,835	1.33%
2008	Apr-08	22,403,714	253.9	0.0	111.37%	30.0	1.0	352.0	7,424	455,000	23,162,808	759,094	3.39%
2008	May-08	23,491,748	193.5	2.5	111.31%	31.0	1.0	336.0	7,426	456,250	23,547,838	56,090	0.24%
2008	Jun-08	23,813,832	22.7	71.5	111.25%	30.0	0.0	336.0	7,413	457,500	25,352,012	1,538,180	6.46%
2008	Jul-08	25,855,003	1.0	111.0	111.19%	31.0	0.0	352.0	7,413	458,750	25,785,624	-69,380	-0.27%
2008	Aug-08	26,500,312	12.7	64.0	111.13%	31.0	0.0	320.0	7,419	460,000	25,682,831	-817,481	-3.08%
2008	Sep-08	23,710,615	59.0	26.7	111.08%	30.0	1.0	336.0	7,441	461,250	23,389,744	-320,871	-1.35%
2008	Oct-08	22,676,278	278.6	0.0	111.02%	31.0	1.0	352.0	7,445	462,500	23,158,779	482,501	2.13%
2008	Nov-08	24,367,815	451.6	0.0	110.96%	30.0	1.0	304.0	7,476	463,750	26,063,769	1,695,954	6.96%
2008	Dec-08	24,675,999	654.6	0.0	110.90%	31.0	0.0	336.0	7,485	465,000	26,724,665	2,048,666	8.30%
2009	Jan-09	28,818,592	830.2	0.0	110.59%	31.0	0.0	336.0	7,496	467,667	27,617,809	-1,200,782	-4.17%
2009	Feb-09	27,435,853	606.4	0.0	110.29%	28.0	0.0	304.0	7,497	470,333	27,439,042	3,189	0.01%
2009	Mar-09	23,845,444	533.8	0.0	109.99%	31.0	1.0	352.0	7,507	473,000	24,385,755	540,311	2.27%
2009	Apr-09	24,819,291	305.8	1.2	109.69%	30.0	1.0	320.0	7,490	475,667	24,222,644	-596,647	-2.40%
2009	May-09	22,413,054	158.8	6.9	109.39%	31.0	1.0	320.0	7,486	478,333	23,498,669	1,085,615	4.84%
2009	Jun-09	21,293,990	49.3	34.2	109.09%	30.0	0.0	352.0	7,489	481,000	23,101,681	1,807,692	8.49%
2009	Jul-09	24,382,545	6.2	43.7	108.79%	31.0	0.0	352.0	7,500	483,667	23,124,953	-1,257,592	-5.16%
2009	Aug-09	32,654,192	9.8	91.0	108.49%	31.0	0.0	320.0	7,517	486,333	25,807,095	-6,847,097	-20.97%
2009	Sep-09	16,228,399	55.2	20.9	108.20%	30.0	1.0	336.0	7,523	489,000	22,380,151	6,151,752	37.91%
2009	Oct-09	23,400,639	287.8	0.0	107.90%	31.0	1.0	336.0	7,604	491,667	23,289,526	-111,112	-0.47%
2009	Nov-09	24,030,768	361.2	0.0	107.60%	30.0	1.0	320.0	7,616	494,333	24,226,174	195,406	0.81%
2009	Dec-09	24,778,950	631.3	0.0	107.31%	31.0	0.0	352.0	7,620	497,000	25,164,191	385,241	1.55%

			Cooling Degree	Ontario Real	Number of Days in		Number of	Number of							
	Purchased	Heating Degree Days	Days	GDP Monthly %	Month	Spring Fall Flag	Peak Hours	Customers	Population	Predicted Purchases	Variances (kWh)	% Variance			
Jan-10	29,382,385	720.0	0.0	107.57%	31.0	0.0	320.0	7,668	497,583	27,137,471	-2,244,915	-7.64%			
Feb-10	26,089,641	598.3	0.0	107.83%	28.0	0.0	304.0	7,665	498,167	26,988,946	899,304	3.45%			
Mar-10	23,657,683	422.8	0.0	108.09%	31.0	1.0	368.0	7,671	498,750	22,843,938	-813,745	-3.44%			
Apr-10	26,557,906	225.1	0.0	108.35%	30.0	1.0	320.0	7,671	499,333	23,644,466	-2,913,441	-10.97%			
May-10	21,752,286	107.9	45.7	108.62%	31.0	1.0	320.0	7,665	499,917	24,410,081	2,657,795	12.22%			
Jun-10	23,309,823	21.7	58.7	108.88%	30.0	0.0	352.0	7,701	500,500	23,973,043	663,220	2.85%			
Jul-10	27,288,151	1.8	164.9	109.15%	31.0	0.0	336.0	7,727	501,083	27,873,421	585,270	2.14%			
Aug-10	27,241,780	2.1	138.8	109.41%	31.0	0.0	336.0	7,795	501,667	27,384,931	143,151	0.53%			
Sep-10	25,567,181	78.2	31.5	109.68%	30.0	1.0	336.0	7,817	502,250	23,830,710	-1,736,471	-6.79%			
Oct-10	22,932,112	241.6	0.0	109.94%	31.0	1.0	320.0	7,844	502,833	24,574,161	1,642,049	7.16%			
Nov-10	22,731,626	405.3	0.0	110.21%	30.0	1.0	336.0	7,880	503,417	24,957,954	2,226,328	9.79%			
Dec-10	25,659,707	676.2	0.0	110.48%	31.0	0.0	368.0	7,914	504,000	26,152,451	492,744	1.92%			
Jan-11	29,681,022	775.3	0.0	110.64%	31.0	0.0	320.0	7,934	505,659	28,657,711	-1,023,311	-3.45%			
Feb-11	28,260,358	654.2	0.0	110.80%	28.0	0.0	304.0	7,959	507,319	28,587,696	327,338	1.16%			
Mar-11	26,616,254	572.8	0.0	110.97%	31.0	1.0	368.0	7,989	508,978	25,015,936	-1,600,318	-6.01%			
Apr-11	26,658,746	332.3	0.0	111.13%	30.0	1.0	304.0	8,016	510,637	26,290,018	-368,728	-1.38%			
May-11	23,655,095	134.1	13.0	111.30%	31.0	1.0	336.0	8,027	512,296	24,378,115	723,021	3.06%			
Jun-11	25,526,693	19.0	52.2	111.47%	30.0	0.0	352.0	8,062	513,956	25,164,456	-362,237	-1.42%			
Jul-11	29,019,546	0.0	198.6	111.63%	31.0	0.0	320.0	8,083	515,615	30,857,737	1,838,191	6.33%			
Aug-11	27,992,219	0.0	122.2	111.80%	31.0	0.0	352.0	8,103	517,274	27,325,774	-666,445	-2.38%			
Sep-11	27,732,866	48.2	39.7	111.96%	30.0	1.0	336.0	8,135	518,933	25,004,505	-2,728,361	-9.84%			
Oct-11	24,049,772	235.5	2.4	112.13%	31.0	1.0	336.0	8,172	520,593	25,065,132	1,015,360	4.22%			
Nov-11	24,699,073	342.1	0.0	112.30%	30.0	1.0	352.0	8,225	522,252	25,092,105	393,031	1.59%			
Dec-11	26,977,323	534.0	0.0	112.46%	31.0	0.0	336.0	8,259	523,911	27,721,151	743,827	2.76%			
Jan-12	29,493,944	611.1	0.0	112.60%	31.0	0.0	336.0	8,241	525,085	28,046,515	-1,447,429	-4.91%			
Feb-12	28,839,4														

Regression Model for General Service < 50 kW

	<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Number of Customers</u>	<u>Population</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
	Actual	Predicted	Variance (kWh)	Variance %								
2001												
2002												
2003												
2004	273,512,185	277,185,568	-3,673,383	-1.34%								
2005	298,339,886	296,105,138	2,234,748	0.75%								
2006	294,668,780	294,129,329	539,451	0.18%								
2007	309,433,581	304,503,291	4,930,290	1.59%								
2008	298,166,948	303,819,416	-5,652,468	-1.90%								
2009	294,101,715	294,257,690	-155,975	-0.05%								
2010	302,170,283	303,771,572	-1,601,289	-0.53%								
2011	320,868,967	319,160,336	1,708,632	0.53%								
2012	326,943,201	326,695,526	247,675	0.08%								
2013	334,582,210	333,159,890	1,422,319	0.43%								
2014		342,486,585										
2015		352,468,882										

Total	3,052,787,756	3,052,787,756	0
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SUMMARY OUTPUT

Regression Statistics								
Multiple R	81.80%							
R Square	66.92%							
Adjusted R Square	64.53%							
Standard Error	1,550,665.72							
Observations	120							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	8	5.39899E+14	6.74874E+13	28.07	0.0000			
Residual	111	2.66907E+14	2.40456E+12					
Total	119	8.06806E+14						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5,584,260.98	8,919,892.13	0.6260	0.5326	-12091100.19	23259622.15	-12091100.19	23259622.15
Heating Degree Days	5,472.89	974.30	5.6173	0.0000	3542.252055	7403.521239	3542.252055	7403.521239
Cooling Degree Days	30,243.66	5,512.92	5.4860	0.0000	19319.44026	41167.87131	19319.44026	41167.87131
Ontario Real GDP Monthly %	10,979,530.79	9,574,995.29	1.1467	0.2540	-7993960.99	29953022.56	-7993960.99	29953022.56
Number of Days in Month	39,188.97	195,059.81	0.2009	0.8411	-347335.0566	425712.996	-347335.0566	425712.996
Spring Fall Flag	(790,915.92)	403,958.72	(1.9579)	0.0527	-1591387.06	9555.219785	-1591387.06	9555.219785
Number of Peak Hours	(39,805.42)	8,876.56	(4.4843)	0.0000	-57394.91311	-22215.91734	-57394.91311	-22215.91734
Number of Customers	4,233.83	1,652.70	2.5618	0.0118	958.9059112	7508.759212	958.9059112	7508.759212
Population	(30.43)	16.18	(1.8809)	0.0626	-62.48339031	1.628914409	-62.48339031	1.628914409

Regression Model for General Service > 50 kW

		<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Number of Customers</u>	<u>Population</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
2004	Jan-04	107,850,864	849.1	0.0	101.59%	31.0	0.0	336.0	1,390	373,417	97,253,248	-10,597,616	-9.83%
2004	Feb-04	86,943,151	631.7	0.0	101.81%	29.0	0.0	320.0	1,394	374,833	92,731,656	5,788,505	6.66%
2004	Mar-04	92,207,023	487.3	0.0	102.02%	31.0	1.0	368.0	1,394	376,250	93,805,806	1,598,783	1.73%
2004	Apr-04	82,782,079	331.5	0.0	102.24%	30.0	1.0	336.0	1,395	377,667	88,932,982	6,150,903	7.43%
2004	May-04	85,131,816	158.9	8.6	102.45%	31.0	1.0	320.0	1,404	379,083	86,309,308	1,177,492	1.38%
2004	Jun-04	87,709,710	44.2	31.6	102.67%	30.0	0.0	352.0	1,397	380,500	90,181,081	2,471,371	2.82%
2004	Jul-04	107,314,343	3.6	86.4	102.89%	31.0	0.0	336.0	1,408	381,917	93,005,969	-14,308,374	-13.33%
2004	Aug-04	74,886,665	12.8	59.6	103.11%	31.0	0.0	336.0	1,420	383,333	91,399,372	16,512,707	22.05%
2004	Sep-04	89,614,322	30.0	41.2	103.32%	30.0	1.0	336.0	1,388	384,750	88,192,584	-1,421,738	-1.59%
2004	Oct-04	84,185,811	226.3	1.5	103.54%	31.0	1.0	320.0	1,376	386,167	86,558,641	2,372,830	2.82%
2004	Nov-04	90,614,206	379.1	0.0	103.76%	30.0	1.0	352.0	1,378	387,583	91,171,167	556,961	0.61%
2004	Dec-04	93,555,928	643.4	0.0	103.98%	31.0	0.0	336.0	1,376	389,000	95,043,174	1,487,246	1.59%
2005	Jan-05	93,876,052	770.0	0.0	104.22%	31.0	0.0	320.0	1,379	391,000	95,623,986	1,747,934	1.86%
2005	Feb-05	95,439,923	616.4	0.0	104.45%	28.0	0.0	320.0	1,378	393,000	93,026,306	-2,413,617	-2.53%
2005	Mar-05	93,601,879	608.6	0.0	104.69%	31.0	1.0	352.0	1,362	395,000	94,514,699	912,820	0.98%
2005	Apr-05	85,519,196	306.8	0.0	104.93%	30.0	1.0	336.0	1,370	397,000	89,053,922	3,534,726	4.13%
2005	May-05	87,463,993	189.4	0.8	105.17%	31.0	1.0	336.0	1,353	399,000	87,369,299	-94,694	-0.11%
2005	Jun-05	95,066,850	8.9	146.3	105.41%	30.0	0.0	352.0	1,351	401,000	98,547,757	3,480,907	3.66%
2005	Jul-05	96,303,978	0.0	188.7	105.65%	31.0	0.0	320.0	1,354	403,000	99,362,639	3,058,661	3.18%
2005	Aug-05	98,464,599	0.2	140.7	105.89%	31.0	0.0	352.0	1,359	405,000	98,474,211	9,612	0.01%
2005	Sep-05	95,496,155	22.6	52.1	106.13%	30.0	1.0	336.0	1,366	407,000	89,393,601	-6,102,554	-6.39%
2005	Oct-05	88,954,507	220.2	7.6	106.37%	31.0	1.0	320.0	1,364	409,000	87,600,306	-1,354,201	-1.52%
2005	Nov-05	97,467,256	388.4	0.0	106.61%	30.0	1.0	352.0	1,360	411,000	91,821,080	-5,646,176	-5.79%
2005	Dec-05	94,031,215	665.3	0.0	106.85%	31.0	0.0	320.0	1,369	413,000	94,764,316	733,101	0.78%
2006	Jan-06	94,853,823	551.8	0.0	107.07%	31.0	0.0	336.0	1,381	414,667	94,817,984	-35,839	-0.04%
2006	Feb-06	93,524,238	604.3	0.0	107.29%	28.0	0.0	320.0	1,378	416,333	93,737,894	213,656	0.23%
2006	Mar-06	95,014,813	516.6	0.0	107.50%	31.0	1.0	368.0	1,396	418,000	96,129,805	1,114,992	1.17%
2006	Apr-06	85,130,049	293.3	0.0	107.72%	30.0	1.0	304.0	1,398	419,667	87,687,656	2,557,607	3.00%
2006	May-06	89,528,473	136.9	26.0	107.94%	31.0	1.0	352.0	1,412	421,333	91,996,307	2,467,834	2.76%
2006	Jun-06	98,963,273	19.5	73.6	108.15%	30.0	0.0	352.0	1,420	423,000	95,388,894	-3,574,379	-3.61%
2006	Jul-06	99,178,685	0.0	167.3	108.37%	31.0	0.0	320.0	1,399	424,667	99,522,233	343,548	0.35%
2006	Aug-06	100,161,420	4.2	101.6	108.59%	31.0	0.0	352.0	1,406	426,333	97,365,757	-2,795,663	-2.79%
2006	Sep-06	87,696,888	80.9	12.9	108.81%	30.0	1.0	320.0	1,410	428,000	87,656,021	-40,867	-0.05%
2006	Oct-06	96,462,438	288.3	1.1	109.03%	31.0	1.0	336.0	1,403	429,667	91,057,114	-5,405,324	-5.60%
2006	Nov-06	93,732,318	382.2	0.0	109.25%	30.0	1.0	352.0	1,411	431,333	93,672,000	-60,318	-0.06%
2006	Dec-06	92,261,800	500.5	0.0	109.47%	31.0	0.0	304.0	1,411	433,000	92,899,889	638,089	0.69%
2007	Jan-07	99,321,481	647.1	0.0	109.65%	31.0	0.0	352.0	1,421	434,417	99,162,363	-159,118	-0.16%
2007	Feb-07	98,348,800	740.1	0.0	109.82%	28.0	0.0	320.0	1,422	435,833	97,395,960	-952,840	-0.97%
2007	Mar-07	96,430,076	546.7	0.0	110.00%	31.0	1.0	352.0	1,401	437,250	96,177,829	-252,247	-0.26%
2007	Apr-07	90,708,197	356.4	0.0	110.18%	30.0	1.0	320.0	1,402	438,667	90,796,217	88,020	0.10%
2007	May-07	92,269,497	136.4	22.4	110.36%	31.0	1.0	352.0	1,411	440,083	92,503,038	233,541	0.25%
2007	Jun-07	96,254,780	16.5	99.2	110.53%	30.0	0.0	336.0	1,410	441,500	96,595,021	340,241	0.35%
2007	Jul-07	96,448,464	3.2	106.1	110.71%	31.0	0.0	336.0	1,402	442,917	97,004,301	555,837	0.58%
2007	Aug-07	99,154,111	5.2	141.0	110.89%	31.0	0.0	352.0	1,414	444,333	101,348,695	2,194,584	2.21%
2007	Sep-07	92,112,959	36.9	47.5	111.07%	30.0	1.0	304.0	1,420	445,750	89,347,481	-2,765,478	-3.00%
2007	Oct-07	95,101,286	137.7	19.8	111.25%	31.0	1.0	352.0	1,419	447,167	92,777,681	-2,323,605	-2.44%
2007	Nov-07	95,834,053	462.5	0.0	111.43%	30.0	1.0	352.0	1,437	448,583	96,042,037	207,984	0.22%
2007	Dec-07	97,410,215	630.7	0.0	111.61%	31.0	0.0	304.0	1,443	450,000	96,072,942	-1,337,273	-1.37%
2008	Jan-08	102,963,887	623.5	0.0	111.55%	31.0	0.0	352.0	1,461	451,250	100,191,610	-2,772,277	-2.69%
2008	Feb-08	98,872,834	674.7	0.0	111.49%	29.0	0.0	320.0	1,479	452,500	98,197,323	-675,511	-0.68%
2008	Mar-08	100,278,173	610.2	0.0	111.43%	31.0	1.0	304.0	1,488	453,750	95,108,480	-5,169,693	-5.16%
2008	Apr-08	93,247,862	253.9	0.0	111.37%	30.0	1.0	352.0	1,482	455,000	93,694,777	446,915	0.48%
2008	May-08	86,488,914	193.5	2.5	111.31%	31.0	1.0	336.0	1,479	456,250	91,728,420	5,239,506	6.06%
2008	Jun-08	101,028,124	22.7	71.5	111.25%	30.0	0.0	336.0	1,479	457,500	95,683,712	-5,344,412	-5.29%
2008	Jul-08	96,066,527	1.0	111.0	111.19%	31.0	0.0	352.0	1,485	458,750	99,933,840	3,867,313	4.03%
2008	Aug-08	96,037,526	12.7	64.0	111.13%	31.0	0.0	320.0	1,491	460,000	93,852,051	-2,185,475	-2.28%
2008	Sep-08	96,289,315	59.0	26.7	111.08%	30.0	1.0	336.0	1,496	461,250	91,479,519	-4,809,796	-5.00%
2008	Oct-08	91,666,815	278.6	0.0	111.02%	31.0	1.0	352.0	1,517	462,500	94,296,176	2,629,361	2.87%
2008	Nov-08	92,054,395	451.6	0.0	110.96%	30.0	1.0	304.0	1,518	463,750	92,502,355	447,960	0.49%
2008	Dec-08	97,466,500	654.6	0.0	110.90%	31.0	0.0	336.0	1,519	465,000	99,342,354	1,875,854	1.92%
2009	Jan-09	101,974,045	830.2	0.0	110.59%	31.0	0.0	336.0	1,532	467,667	101,707,429	-266,616	-0.26%
2009	Feb-09	92,396,840	606.4	0.0	110.29%	28.0	0.0	304.0	1,535	470,333	95,153,341	2,756,501	2.98%
2009	Mar-09	96,585,229	533.8	0.0	109.99%	31.0	1.0	352.0	1,542	473,000	97,105,886	520,657	0.54%
2009	Apr-09	88,936,742	305.8	1.2	109.69%	30.0	1.0	320.0	1,558	475,667	91,191,182	2,254,440	2.53%
2009	May-09	85,648,865	158.8	6.9	109.39%	31.0	1.0	320.0	1,568	478,333	89,604,410	3,955,545	4.62%
2009	Jun-09	91,411,346	49.3	34.2	109.09%	30.0	0.0	352.0	1,570	481,000	93,630,609	2,219,263	2.43%
2009	Jul-09	93,919,308	6.2	43.7	108.79%	31.0	0.0	352.0	1,575	483,667	93,685,099	-234,209	-0.25%
2009	Aug-09	96,176,801	9.8	91.0	108.49%	31.0	0.0	320.0	1,579	486,333	94,483,298	-1,693,503	-1.76%
2009	Sep-09	92,717,312	55.2	20.9	108.20%	30.0	1.0	336.0	1,583	489,000	89,304,366	-3,412,946	-3.68%
2009	Oct-09	90,275,253	287.8	0.0	107.90%	31.0	1.0	336.0	1,532	491,667	89,710,258	-564,995	-0.63%
2009	Nov-09	91,490,331	361.2	0.0	107.60%	30.0	1.0	320.0	1,536	494,333	88,983,723	-2,506,608	-2.74%
2009	Dec-09	97,899,507	631.3	0.0	107.31%	31.0	0.0	352.0	1,534	497,000	96,457,724	-1,441,783	-1.47%

Regression Model for General Service > 50 kW

				Cooling Degree		Ontario Real		Number of Days in		Number of	Number of					
		Purchased	Heating Degree Days	Days		GDP Monthly %		Month	Spring Fall Flag	Peak Hours	Customers	Population	Predicted Purchases	Variances (kWh)		% Variance
2010	Jan-10	99,545,926		720.0	0.0	107.57%		31.0	0.0	320.0	1,536	497,583	95,258,925	-4,287,001		-4.31%
2010	Feb-10	91,797,929		598.3	0.0	107.83%		28.0	0.0	304.0	1,541	498,167	91,999,433	201,504		0.22%
2010	Mar-10	96,662,374		422.8	0.0	108.09%		31.0	1.0	368.0	1,533	498,750	94,036,847	-2,625,527		-2.72%
2010	Apr-10	87,946,774		225.1	0.0	108.35%		30.0	1.0	320.0	1,533	499,333	87,315,808	-630,966		-0.72%
2010	May-10	87,521,239		107.9	45.7	108.62%		31.0	1.0	320.0	1,538	499,917	89,639,138	2,117,899		2.42%
2010	Jun-10	95,295,707		21.7	58.7	108.88%		30.0	0.0	352.0	1,542	500,500	93,438,316	-1,857,391		-1.95%
2010	Jul-10	100,105,283		1.8	164.9	109.15%		31.0	0.0	336.0	1,539	501,083	100,306,124	200,841		0.20%
2010	Aug-10	98,467,295		2.1	138.8	109.41%		31.0	0.0	336.0	1,540	501,667	98,478,881	11,586		0.01%
2010	Sep-10	93,605,638		78.2	31.5	109.68%		30.0	1.0	336.0	1,540	502,250	89,967,176	-3,638,462		-3.89%
2010	Oct-10	87,356,694		241.6	0.0	109.94%		31.0	1.0	320.0	1,543	502,833	88,891,170	1,534,476		1.76%
2010	Nov-10	92,404,420		405.3	0.0	110.21%		30.0	1.0	336.0	1,541	503,417	92,447,152	42,732		0.05%
2010	Dec-10	97,044,044		676.2	0.0	110.48%		31.0	0.0	368.0	1,542	504,000	100,503,519	3,459,475		3.56%
2011	Jan-11	100,009,657		775.3	0.0	110.64%		31.0	0.0	320.0	1,545	505,659	98,029,259	-1,980,398		-1.98%
2011	Feb-11	94,671,447		654.2	0.0	110.80%		28.0	0.0	304.0	1,545	507,319	94,552,129	-119,318		-0.13%
2011	Mar-11	97,658,736		572.8	0.0	110.97%		31.0	1.0	368.0	1,545	508,978	97,943,345	284,609		0.29%
2011	Apr-11	88,544,116		332.3	0.0	111.13%		30.0	1.0	304.0	1,547	510,637	89,224,311	680,195		0.77%
2011	May-11	89,426,717		134.1	13.0	111.30%		31.0	1.0	336.0	1,544	512,296	90,241,963	815,246		0.91%
2011	Jun-11	95,713,671		19.0	52.2	111.47%		30.0	0.0	352.0	1,545	513,956	94,155,525	-1,558,146		-1.63%
2011	Jul-11	101,326,740		0.0	198.6	111.63%		31.0	0.0	320.0	1,541	515,615	102,674,655	1,347,915		1.33%
2011	Aug-11	102,219,116		0.0	122.2	111.80%		31.0	0.0	352.0	1,544	517,274	99,514,209	-2,704,907		-2.65%
2011	Sep-11	93,885,819		48.2	39.7	111.96%		30.0	1.0	336.0	1,522	518,933	90,631,417	-3,254,402		-3.47%
2011	Oct-11	88,468,561		235.5	2.4	112.13%		31.0	1.0	336.0	1,522	520,593	90,572,287	2,103,726		2.38%
2011	Nov-11	92,796,644		342.1	0.0	112.30%		30.0	1.0	352.0	1,521	522,252	93,041,172	244,528		0.26%
2011	Dec-11	94,137,020		534.0	0.0	112.46%		31.0	0.0	336.0	1,523	523,911	95,935,329	1,798,309		1.91%
2012	Jan-12	99,002,633		611.1	0.0	112.60%		31.0	0.0	336.0	1,523	525,085	97,053,287	-1,949,346		-1.97%
2012	Feb-12	94,768,891		531.7	0.0	112.74%		29.0	0.0	320.0	1,524	526,259	94,353,296	-415,595		-0.44%
2012	Mar-12	93,975,078		349.4	0.2	112.88%		31.0	1.0	352.0	1,524	527,433	93,553,625	-421,453		-0.45%
2012	Apr-12	87,004,957		321.7	0.0	113.02%		30.0	1.0	320.0	1,515	528,606	90,204,557	3,199,600		3.68%
2012	May-12	93,055,553		80.7	36.7	113.16%		31.0	1.0	352.0	1,517	529,780	92,562,840	-492,713		-0.53%
2012	Jun-12	96,841,186		23.2	101.6	113.30%		30.0	0.0	336.0	1,518	530,954	96,633,007	-208,179		-0.21%
2012	Jul-12	102,954,191		0.0	195.4	113.45%		31.0	0.0	352.0	1,521	532,128	105,138,935	2,184,744		2.12%
2012	Aug-12	100,915,401		2.0	112.1	113.59%		31.0	0.0	352.0	1,524	533,302	98,843,605	-2,071,796		-2.05%
2012	Sep-12	92,157,092		85.0	35.6	113.73%		30.0	1.0	304.0	1,528	534,476	88,813,377	-3,343,715		-3.63%
2012	Oct-12	90,948,353		242.5	1.1	113.87%		31.0	1.0	352.0	1,537	535,649	92,699,893	1,751,540		1.93%
2012	Nov-12	94,864,844		434.0	0.0	114.01%		30.0	1.0	352.0	1,537	536,823	95,161,844	297,000		0.31%
2012	Dec-12	93,961,906		533.5	0.0	114.15%		31.0	0.0	304.0	1,537	537,997	94,095,186	133,280		0.14%
2013	Jan-13	98,255,480		624.4	0.0	114.27%		31.0	0.0	352.0	1,540	539,268	99,404,940	1,149,460		1.17%
2013	Feb-13	93,830,172		631.5	0.0	114.40%		28.0	0.0	304.0	1,538	540,539	95,028,415	1,198,243		1.28%
2013	Mar-13	93,451,193		554.8	0.0	114.52%		31.0	1.0	320.0	1,536	541,809	94,478,924	1,027,731		1.10%
2013	Apr-13	90,501,173		358.6	0.0	114.64%		30.0	1.0	352.0	1,495	543,080	93,392,302	2,891,129		3.19%
2013	May-13	93,141,210		109.1	23.1	114.77%		31.0	1.0	352.0	1,497	544,351	91,929,200	-1,212,010		-1.30%
2013	Jun-13	89,891,967		33.4	59.3	114.89%		30.0	0.0	320.0	1,499	545,622	92,216,106	2,324,139		2.59%
2013	Jul-13	99,173,181		1.4	133.3	115.01%		31.0	0.0	352.0	1,502	546,892	100,372,443	1,199,262		1.21%
2013	Aug-13	95,771,587		4.6	93.2	115.14%		31.0	0.0	336.0	1,505	548,163	96,092,234	320,647		0.33%
2013	Sep-13	89,139,209		89.6	28.0	115.26%		30.0	1.0	320.0	1,507	549,434	89,539,990	400,781		0.45%
2013	Oct-13	93,628,156		224.2	0.0	115.39%		31.0	1.0	352.0	1,504	550,705	92,026,631	-1,601,525		-1.71%
2013	Nov-13	90,860,690		478.3	0.0	115.51%		30.0	1.0	336.0	1,506	551,975	94,152,632	3,291,942		3.62%
2013	Dec-13	95,163,273		687.7	0.0	115.64%		31.0	0.0	320.0	1,508	553,246	97,279,517	2,116,244		2.22%
2014	Jan-14			700.3	0.0	115.84%		31.0	0.0	352.0	1,507	554,325	100,159,814	100,159,814		
2014	Feb-14			628.9	0.0	116.04%		28.0	0.0	304.0	1,506	555,403	94,773,942	94,773,942		
2014	Mar-14			520.3	0.0	116.24%		31.0	1.0	320.0	1,505	556,482	93,865,431	93,865,431		
2014	Apr-14			308.5	0.1	116.44%		30.0	1.0	352.0	1,504	557,561	93,456,135	93,456,135		
2014	May-14			140.6	18.6	116.64%		31.0	1.0	336.0	1,503	558,639	91,456,572	91,456,572		
2014	Jun-14			25.8	72.8	116.84%		30.0	0.0	336.0	1,502	559,718	95,231,295	95,231,295		
2014	Jul-14			1.7	139.5	117.05%		31.0	0.0	352.0	1,500	560,797	101,600,416	101,600,416		
2014	Aug-14			5.4	106.4	117.25%		31.0	0.0	320.0	1,499	561,875	96,529,749	96,529,749		
2014	Sep-14			58.6	33.6	117.45%		30.0	1.0	336.0	1,498	562,954	91,586,555	91,586,555		
2014	Oct-14			238.3	3.4	117.66%		31.0	1.0	352.0	1,497	564,033	93,316,591	93,316,591		
2014	Nov-14			408.5	0.0	117.86%		30.0	1.0	320.0	1,496	565,111	92,699,313	92,699,313		
2014	Dec-14			615.7	0.0	118.06%		31.0	0.0	336.0	1,495	566,190	98,436,642	98,436,642		
2015	Jan-15			700.3	0.0	118.31%		31.0	0.0	336.0	1,494	567,269	99,723,811	99,723,811		
2015	Feb-15			628.9	0.0	118.55%		28.0	0.0	304.0	1,494	568,347	95,695,133	95,695,133		
2015	Mar-15			520.3	0.0	118.79%		31.0	1.0	352.0	1,493	569,426	97,462,087	97,462,087		
2015	Apr-15			308.5	0.1	119.04%		30.0	1.0	336.0	1,492	570,504	93,137,571	93,137,571		
2015	May-15			140.6	18.6	119.28%		31.0	1.0	320.0	1,492	571,583	91,177,377	91,177,377		
2015	Jun-15			25.8	72.8	119.53%		30.0	0.0	352.0	1,491	572,662	97,627,900	97,627,900		
2015	Jul-15			1.7	139.5	119.78%		31.0	0.0	352.0	1,490	573,740	102,718,456	102,718,456		
2015	Aug-15			5.4	106.4	120.02%		31.0	0.0	320.0	1,490	574,819	97,687,496	97,687,496		
2015	Sep-15			58.6	33.6	120.27%		30.0	1.0	336.0	1,489	575,897	92,784,121	92,784,121		
2015	Oct-15			238.3	3.4	120.52%		31.0	1.0	336.0	1,488	576,976	93,235,932	93,235,932		
2015	Nov-15			408.5	0.0	120.77%		30.0	1.0	336.0	1,488	578,054	95,295,019	95,295,019		
2015	Dec-15			615.7	0.0	121.02%		31.0	0.0	352.0	1,487	579,133	101,072,507	101,072,507		
				Weather Normalized												

Regression Model for General Service > 50 kW

<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Number of Customers</u>	<u>Population</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
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	Actual	Predicted	Variance (kWh)	Variance %
2001				
2002				
2003				
2004	1,082,795,918	1,094,584,988	-11,789,070	-1.0888%
2005	1,121,685,603	1,119,552,124	2,133,479	0.1902%
2006	1,126,508,218	1,121,931,555	4,576,663	0.4063%
2007	1,149,393,919	1,145,223,564	4,170,355	0.3628%
2008	1,152,460,872	1,146,010,617	6,450,255	0.5597%
2009	1,119,431,579	1,121,017,326	-1,585,747	-0.1417%
2010	1,127,753,323	1,122,282,489	5,470,834	0.4851%
2011	1,138,858,244	1,136,515,602	2,342,642	0.2057%
2012	1,140,450,085	1,139,113,453	1,336,632	0.1172%
2013	1,122,807,291	1,135,913,333	-13,106,042	-1.1673%
2014		1,143,112,457		
2015		1,157,617,410		

Total	11,282,145,052	11,282,145,052	0
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SUMMARY OUTPUT

Regression Statistics	
Multiple R	76.58%
R Square	58.64%
Adjusted R Square	55.66%
Standard Error	3,364,234.86
Observations	120

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	8	1.78153E+15	2.22691E+14	19.68	0.0000
Residual	111	1.25631E+15	1.13181E+13		
Total	119	3.03783E+15			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	(30,785,616.75)	25,509,520.62	(1.2068)	0.2301	-81334433.24	19763199.74	-81334433.24	19763199.74
Heating Degree Days	13,952.00	2,091.89	6.6696	0.0000	9806.781473	18097.22733	9806.781473	18097.22733
Cooling Degree Days	77,167.28	12,153.59	6.3493	0.0000	53084.12556	101250.4326	53084.12556	101250.4326
Ontario Real GDP Monthly %	72,189,418.11	19,943,415.31	3.6197	0.0004	32670210.54	111708625.7	32670210.54	111708625.7
Number of Days in Month	168,490.03	423,554.92	0.3978	0.6915	-670812.2888	1007792.356	-670812.2888	1007792.356
Spring Fall Flag	(1,287,461.22)	886,464.13	(1.4524)	0.1492	-3044049.018	469126.5764	-3044049.018	469126.5764
Number of Peak Hours	82,384.95	19,250.19	4.2797	0.0000	44239.42041	120530.4724	44239.42041	120530.4724
Number of Customers	20,554.39	9,589.79	2.1434	0.0343	1551.577596	39557.205	1551.577596	39557.205
Population	(49.87)	19.38	(2.5730)	0.0114	-88.27094511	-11.46256872	-88.27094511	-11.46256872

Regression Model for General Service > 700 kW

		Purchased	Heating Degree Days	Cooling Degree Days	Ontario Real GDP Monthly %	Number of Days in Month	Spring	Fall	Flag	Number of Peak Hours	Number of Customers	Population	Predicted Purchases	Variances (kWh)	% Variance
2004	Jan-04	75,545,057	849.1	0.0	101.59%	31.0	0.0	0.0	0.0	336.0	132	373,417	76,343,901	798,844	1.06%
2004	Feb-04	76,861,304	631.7	0.0	101.81%	29.0	0.0	0.0	0.0	320.0	135	374,833	76,687,866	-173,438	-0.23%
2004	Mar-04	83,084,710	487.3	0.0	102.02%	31.0	1.0	0.0	1.0	368.0	134	376,250	84,249,271	1,164,561	1.40%
2004	Apr-04	77,984,403	331.5	0.0	102.24%	30.0	1.0	0.0	1.0	336.0	136	377,667	82,662,779	4,678,376	6.00%
2004	May-04	79,444,523	158.9	8.6	102.45%	31.0	1.0	0.0	1.0	320.0	118	379,083	78,327,155	-1,117,368	-1.41%
2004	Jun-04	81,505,361	44.2	31.6	102.67%	30.0	0.0	0.0	0.0	352.0	118	380,500	80,746,280	-759,081	-0.93%
2004	Jul-04	81,500,275	3.6	86.4	102.89%	31.0	0.0	0.0	0.0	336.0	118	381,917	82,244,532	744,257	0.91%
2004	Aug-04	83,973,529	12.8	59.6	103.11%	31.0	0.0	0.0	0.0	336.0	119	383,333	81,293,302	-2,680,227	-3.19%
2004	Sep-04	81,507,868	30.0	41.2	103.32%	30.0	1.0	0.0	1.0	336.0	118	384,750	82,185,810	677,942	0.83%
2004	Oct-04	80,622,707	226.3	1.5	103.54%	31.0	1.0	0.0	1.0	320.0	122	386,167	78,970,905	-1,651,802	-2.05%
2004	Nov-04	79,746,480	379.1	0.0	103.76%	30.0	1.0	0.0	1.0	352.0	121	387,583	80,593,447	846,967	1.06%
2004	Dec-04	72,917,915	643.4	0.0	103.98%	31.0	0.0	0.0	0.0	336.0	121	389,000	75,611,498	2,693,583	3.69%
2005	Jan-05	77,480,062	770.0	0.0	104.22%	31.0	0.0	0.0	0.0	320.0	125	391,000	74,421,925	-3,058,137	-3.95%
2005	Feb-05	75,061,439	616.4	0.0	104.45%	28.0	0.0	0.0	0.0	320.0	126	393,000	75,155,862	94,423	0.13%
2005	Mar-05	80,246,233	608.6	0.0	104.69%	31.0	1.0	0.0	1.0	352.0	120	395,000	79,294,638	-951,595	-1.19%
2005	Apr-05	78,782,812	306.8	0.0	104.93%	30.0	1.0	0.0	1.0	336.0	120	397,000	79,506,800	723,988	0.92%
2005	May-05	81,279,928	189.4	0.8	105.17%	31.0	1.0	0.0	1.0	336.0	120	399,000	80,432,393	-847,535	-1.04%
2005	Jun-05	87,324,678	8.9	146.3	105.41%	30.0	0.0	0.0	0.0	352.0	120	401,000	87,316,309	-8,369	-0.01%
2005	Jul-05	85,317,095	0.0	188.7	105.65%	31.0	0.0	0.0	0.0	320.0	120	403,000	86,553,975	1,236,880	1.45%
2005	Aug-05	90,944,824	0.2	140.7	105.89%	31.0	0.0	0.0	0.0	352.0	120	405,000	87,336,544	-3,608,280	-3.97%
2005	Sep-05	83,218,076	22.6	52.1	106.13%	30.0	1.0	0.0	1.0	336.0	120	407,000	83,745,859	527,783	0.63%
2005	Oct-05	86,950,902	220.2	7.6	106.37%	31.0	1.0	0.0	1.0	320.0	120	409,000	79,262,028	-7,688,874	-8.84%
2005	Nov-05	84,977,960	388.4	0.0	106.61%	30.0	1.0	0.0	1.0	352.0	117	411,000	79,974,262	-5,003,698	-5.89%
2005	Dec-05	75,197,933	665.3	0.0	106.85%	31.0	0.0	0.0	0.0	320.0	118	413,000	73,661,918	-1,536,015	-2.04%
2006	Jan-06	83,131,132	551.8	0.0	107.07%	31.0	0.0	0.0	0.0	336.0	119	414,667	76,102,800	-7,028,332	-8.45%
2006	Feb-06	77,355,926	604.3	0.0	107.29%	28.0	0.0	0.0	0.0	320.0	118	416,333	73,649,671	-3,706,255	-4.79%
2006	Mar-06	83,056,099	516.6	0.0	107.50%	31.0	1.0	0.0	1.0	368.0	118	418,000	81,252,879	-1,803,220	-2.17%
2006	Apr-06	74,907,080	293.3	0.0	107.72%	30.0	1.0	0.0	1.0	304.0	118	419,667	76,606,735	1,699,655	2.27%
2006	May-06	86,276,259	136.9	26.0	107.94%	31.0	1.0	0.0	1.0	352.0	118	421,333	83,329,128	-2,947,131	-3.42%
2006	Jun-06	87,499,488	19.5	73.6	108.15%	30.0	0.0	0.0	0.0	352.0	118	423,000	83,923,641	-3,575,847	-4.09%
2006	Jul-06	86,664,714	0.0	167.3	108.37%	31.0	0.0	0.0	0.0	320.0	119	424,667	85,824,873	-839,841	-0.97%
2006	Aug-06	90,066,987	4.2	101.6	108.59%	31.0	0.0	0.0	0.0	352.0	119	426,333	85,790,609	-4,276,378	-4.75%
2006	Sep-06	82,773,189	80.9	12.9	108.81%	30.0	1.0	0.0	1.0	320.0	120	428,000	80,667,318	-2,105,871	-2.54%
2006	Oct-06	82,641,310	288.3	1.1	109.03%	31.0	1.0	0.0	1.0	336.0	119	429,667	80,311,147	-2,330,163	-2.82%
2006	Nov-06	80,819,324	382.2	0.0	109.25%	30.0	1.0	0.0	1.0	352.0	119	431,333	81,061,298	241,974	0.30%
2006	Dec-06	74,207,988	500.5	0.0	109.47%	31.0	0.0	0.0	0.0	304.0	119	433,000	73,990,440	-217,548	-0.29%
2007	Jan-07	80,523,623	647.1	0.0	109.65%	31.0	0.0	0.0	0.0	352.0	119	434,417	77,548,799	-2,974,824	-3.69%
2007	Feb-07	75,623,989	740.1	0.0	109.82%	28.0	0.0	0.0	0.0	320.0	120	435,833	73,874,920	-1,749,069	-2.31%
2007	Mar-07	82,488,199	546.7	0.0	110.00%	31.0	1.0	0.0	1.0	352.0	119	437,250	80,377,656	-2,110,543	-2.56%
2007	Apr-07	77,898,878	356.4	0.0	110.18%	30.0	1.0	0.0	1.0	320.0	118	438,667	78,205,188	306,310	0.39%
2007	May-07	85,082,328	136.4	22.4	110.36%	31.0	1.0	0.0	1.0	352.0	117	440,083	83,411,369	-1,670,959	-1.96%
2007	Jun-07	86,489,557	16.5	99.2	110.53%	30.0	0.0	0.0	0.0	336.0	117	441,500	83,869,127	-2,620,430	-3.03%
2007	Jul-07	81,749,324	3.2	106.1	110.71%	31.0	0.0	0.0	0.0	336.0	117	442,917	84,451,011	2,701,687	3.30%
2007	Aug-07	91,472,984	5.2	141.0	110.89%	31.0	0.0	0.0	0.0	352.0	117	444,333	87,529,270	-3,943,714	-4.31%
2007	Sep-07	82,351,307	36.9	47.5	111.07%	30.0	1.0	0.0	1.0	304.0	115	445,750	80,221,428	-2,129,879	-2.59%
2007	Oct-07	84,408,372	137.7	19.8	111.25%	31.0	1.0	0.0	1.0	352.0	115	447,167	82,949,863	-1,458,509	-1.73%
2007	Nov-07	80,153,652	462.5	0.0	111.43%	30.0	1.0	0.0	1.0	352.0	115	448,583	79,986,939	-166,713	-0.21%
2007	Dec-07	66,413,810	630.7	0.0	111.61%	31.0	0.0	0.0	0.0	304.0	113	450,000	72,101,328	5,687,518	8.56%
2008	Jan-08	75,130,167	623.5	0.0	111.55%	31.0	0.0	0.0	0.0	352.0	113	451,250	76,352,759	1,222,592	1.63%
2008	Feb-08	70,308,075	674.7	0.0	111.49%	29.0	0.0	0.0	0.0	320.0	113	452,500	72,606,839	2,298,764	3.27%
2008	Mar-08	73,432,083	610.2	0.0	111.43%	31.0	1.0	0.0	1.0	304.0	113	453,750	73,806,234	374,151	0.51%
2008	Apr-08	77,881,226	253.9	0.0	111.37%	30.0	1.0	0.0	1.0	352.0	114	455,000	80,239,011	2,357,785	3.03%
2008	May-08	76,239,429	193.5	2.5	111.31%	31.0	1.0	0.0	1.0	336.0	116	456,250	79,708,889	3,469,460	4.55%
2008	Jun-08	78,009,331	22.7	71.5	111.25%	30.0	0.0	0.0	0.0	336.0	117	457,500	81,607,109	3,597,778	4.61%
2008	Jul-08	80,324,227	1.0	111.0	111.19%	31.0	0.0	0.0	0.0	352.0	117	458,750	84,964,041	4,639,814	5.78%
2008	Aug-08	79,809,855	12.7	64.0	111.13%	31.0	0.0								

Regression Model for General Service > 700 kW

		Purchased	Heating Degree Days	Cooling Degree Days	Ontario Real GDP Monthly %	Number of Days in Month	Spring	Fall	Flag	Number of Peak Hours	Number of Customers	Population	Predicted Purchases	Variances (kWh)	% Variance	
2010	Jan-10	68,584,311	720.0	0.0	107.57%	31.0	0.0	0.0	320.0	112	497,583	63,557,306	-5,027,005	-7.33%		
2010	Feb-10	65,298,733	598.3	0.0	107.83%	28.0	0.0	0.0	304.0	112	498,167	62,557,639	-2,741,094	-4.20%		
2010	Mar-10	73,701,778	422.8	0.0	108.09%	31.0	1.0	1.0	368.0	113	498,750	72,565,996	-1,135,782	-1.54%		
2010	Apr-10	70,921,401	225.1	0.0	108.35%	30.0	1.0	1.0	499,333	114	499,333	69,647,774	-1,273,627	-1.80%		
2010	May-10	74,412,376	107.9	45.7	108.62%	31.0	1.0	1.0	320.0	114	499,917	72,792,665	-1,619,711	-2.18%		
2010	Jun-10	77,275,125	21.7	58.7	108.88%	30.0	0.0	0.0	352.0	115	500,500	74,974,082	-2,301,043	-2.98%		
2010	Jul-10	77,664,019	1.8	164.9	109.15%	31.0	0.0	0.0	336.0	115	501,083	78,826,432	1,162,413	1.50%		
2010	Aug-10	79,409,768	2.1	138.8	109.41%	31.0	0.0	0.0	336.0	115	501,667	77,846,579	-1,563,189	-1.97%		
2010	Sep-10	73,607,827	78.2	31.5	109.68%	30.0	1.0	1.0	336.0	115	502,250	74,727,421	1,119,594	1.52%		
2010	Oct-10	72,158,302	241.6	0.0	109.94%	31.0	1.0	1.0	320.0	115	502,833	71,216,231	-942,071	-1.31%		
2010	Nov-10	71,308,110	405.3	0.0	110.21%	30.0	1.0	1.0	336.0	115	503,417	71,763,199	455,089	0.64%		
2010	Dec-10	64,718,078	676.2	0.0	110.48%	31.0	0.0	0.0	368.0	113	504,000	70,780,800	6,062,722	9.37%		
2011	Jan-11	70,600,457	775.3	0.0	110.64%	31.0	0.0	0.0	320.0	112	505,659	65,527,409	-5,073,048	-7.19%		
2011	Feb-11	64,290,730	654.2	0.0	110.80%	28.0	0.0	0.0	304.0	112	507,319	64,310,341	19,611	0.03%		
2011	Mar-11	73,411,616	572.8	0.0	110.97%	31.0	1.0	1.0	368.0	112	508,978	73,291,365	-120,251	-0.16%		
2011	Apr-11	67,236,116	332.3	0.0	111.13%	30.0	1.0	1.0	304.0	112	510,637	68,695,602	1,459,486	2.17%		
2011	May-11	72,168,904	134.1	13.0	111.30%	31.0	1.0	1.0	336.0	112	512,296	73,555,525	1,386,621	1.92%		
2011	Jun-11	74,558,415	19.0	52.2	111.47%	30.0	0.0	0.0	352.0	111	513,956	74,917,662	359,247	0.48%		
2011	Jul-11	75,283,856	0.0	198.6	111.63%	31.0	0.0	0.0	320.0	112	515,615	79,162,775	3,878,919	5.15%		
2011	Aug-11	78,330,646	0.0	122.2	111.80%	31.0	0.0	0.0	352.0	112	517,274	78,613,191	282,544	0.36%		
2011	Sep-11	73,171,489	48.2	39.7	111.96%	30.0	1.0	1.0	336.0	112	518,933	75,105,769	1,934,280	2.64%		
2011	Oct-11	72,309,859	235.5	2.4	112.13%	31.0	1.0	1.0	336.0	112	520,593	72,438,263	128,404	0.18%		
2011	Nov-11	72,434,837	342.1	0.0	112.30%	30.0	1.0	1.0	352.0	112	522,252	72,999,588	564,751	0.78%		
2011	Dec-11	65,582,119	534.0	0.0	112.46%	31.0	0.0	0.0	336.0	112	523,911	68,370,344	2,788,225	4.25%		
2012	Jan-12	71,463,456	611.1	0.0	112.60%	31.0	0.0	0.0	336.0	113	525,085	68,179,444	-3,284,012	-4.60%		
2012	Feb-12	68,820,363	531.7	0.0	112.74%	29.0	0.0	0.0	320.0	112	526,259	66,643,647	-2,176,716	-3.16%		
2012	Mar-12	74,099,511	349.4	0.2	112.88%	31.0	1.0	1.0	352.0	112	527,433	73,172,182	-927,329	-1.25%		
2012	Apr-12	71,232,903	321.7	0.0	113.02%	30.0	1.0	1.0	320.0	112	528,606	70,257,342	-975,560	-1.37%		
2012	May-12	78,011,621	80.7	36.7	113.16%	31.0	1.0	1.0	352.0	112	529,780	76,478,125	-1,533,496	-1.97%		
2012	Jun-12	77,719,610	23.2	101.6	113.30%	30.0	0.0	0.0	336.0	112	530,954	76,008,085	-1,711,525	-2.20%		
2012	Jul-12	79,043,409	0.0	195.4	113.45%	31.0	0.0	0.0	352.0	112	532,128	82,060,697	3,017,287	3.82%		
2012	Aug-12	79,320,369	2.0	112.1	113.59%	31.0	0.0	0.0	352.0	112	533,302	78,275,427	-1,044,942	-1.32%		
2012	Sep-12	73,342,838	85.0	35.6	113.73%	30.0	1.0	1.0	304.0	111	534,476	71,672,760	-1,670,078	-2.28%		
2012	Oct-12	75,252,998	242.5	1.1	113.87%	31.0	1.0	1.0	352.0	110	535,649	73,488,240	-1,764,758	-2.35%		
2012	Nov-12	73,966,462	434.0	0.0	114.01%	30.0	1.0	1.0	352.0	110	536,823	72,159,458	-1,807,004	-2.44%		
2012	Dec-12	65,633,764	533.5	0.0	114.15%	31.0	0.0	0.0	304.0	110	537,997	65,172,369	-461,395	-0.70%		
2013	Jan-13	73,889,328	624.4	0.0	114.27%	31.0	0.0	0.0	352.0	110	539,268	69,023,417	-4,865,911	-6.59%		
2013	Feb-13	66,923,174	631.5	0.0	114.40%	28.0	0.0	0.0	304.0	111	540,539	64,354,855	-2,568,319	-3.84%		
2013	Mar-13	73,178,412	554.8	0.0	114.52%	31.0	1.0	1.0	320.0	111	541,809	68,903,432	-4,274,979	-5.84%		
2013	Apr-13	75,474,725	358.6	0.0	114.64%	30.0	1.0	1.0	352.0	111	543,080	72,847,156	-2,627,570	-3.48%		
2013	May-13	76,962,450	109.1	23.1	114.77%	31.0	1.0	1.0	352.0	117	544,351	77,042,368	79,918	0.10%		
2013	Jun-13	77,594,548	33.4	59.3	114.89%	30.0	0.0	0.0	320.0	117	545,622	73,878,787	-3,715,761	-4.79%		
2013	Jul-13	79,680,984	1.4	133.3	115.01%	31.0	0.0	0.0	352.0	117	546,892	80,522,192	841,207	1.06%		
2013	Aug-13	80,424,494	4.6	93.2	115.14%	31.0	0.0	0.0	336.0	117	548,163	77,201,552	-3,222,941	-4.01%		
2013	Sep-13	70,923,892	89.6	28.0	115.26%	30.0	1.0	1.0	320.0	117	549,434	74,259,897	3,336,005	4.70%		
2013	Oct-13	78,150,760	224.2	0.0	115.39%	31.0	1.0	1.0	352.0	118	550,705	75,514,624	-2,636,136	-3.37%		
2013	Nov-13	76,142,644	478.3	0.0	115.51%	30.0	1.0	1.0	336.0	118	551,975	72,366,421	-3,776,223	-4.96%		
2013	Dec-13	69,073,080	687.7	0.0	115.64%	31.0	0.0	0.0	320.0	118	553,246	67,630,084	-1,442,996	-2.09%		
2014	Jan-14		700.3	0.0	115.84%	31.0	0.0	0.0	352.0	118	554,325	70,461,763	70,461,763			
2014	Feb-14		628.9	0.0	116.04%	28.0	0.0	0.0	304.0	117	555,403	65,991,113	65,991,113			
2014	Mar-14		520.3	0.0	116.24%	31.0	1.0	1.0	320.0	117	556,482	70,711,993	70,711,993			
2014	Apr-14		308.5	0.1	116.44%	30.0	1.0	1.0	352.0	116	557,561	74,734,093	74,734,093			
2014	May-14		140.6	18.6	116.64%	31.0	1.0	1.0	336.0	116	558,639	75,238,096	75,238,096			
2014	Jun-14		25.8	72.8	116.84%	30.0	0.0	0.0	336.0	115	559,718	76,046,189	76,046,189			
2014	Jul-14		1.7	139.5	117.05%	31.0	0.0	0.0	352.0	115	560,797	80,824,922	80,824,922			
2014	Aug-14		5.4	106.4	117.25%	31.0	0.0	0.0	320.0	114	561,875	76,333,647	76,333,647			
2014	Sep-14		58.6	33.6	117.45%	30.0	1.0	1.0	336.0	114	562,954	76,152,654	76,152,654			
2014	Oct-14		238.3	3.4	117.66%	31.0	1.0	1.0	352.0	113	564,033	75,298,596	75,298,596			
2014	Nov-14		408.5	0.0	117.86%	30.0	1.0	1.0	320.0	113	565,111	71,013,862	71,013,862			
2014	Dec-14		615.7	0.0	118.06%	31.0	0.0	0.0	336.0	112	566,190	69,208,281	69,208,281			
2015	Jan-15		700.3	0.0	118.31%	31.0	0.0	0.0	336.0	113	567,269	68,929,730	68,929,730			
2015	Feb-15		628.9	0.0	118.55%	28.0	0.0	0.0	304.0	113	568,347	66,181,877	66,181,877			
2015	Mar-15		520.3	0.0	118.79%	31.0	1.0	1.0	352.0	113	569,426	74,093,334	74,093,334			
2015	Apr-15		308.5	0.1	119.04%	30.0	1.0	1.0	336.0	114	570,504	73,968,053	73,968,053			
2015	May-15		140.6	18.6	119.28%	31.0	1.0	1.0	320.0	114	571,583	74,727,705	74,727,705			
2015	Jun-15		25.8	72.8	119.53%	30.0	0.0	0.0	352.0	114	572,662	78,726,853	78,726,853			
2015	Jul-15		1.7	139.5	119.78%	31.0	0.0	0.0	352.0	115	573,740	82,293,932	82,293,932			
2015	Aug-15		5.4	106.4	120.02%	31.0	0.0	0.0	320.0	115	574,819	78,058,785	78,058,785			
2015	Sep-15		58.6	33.6	120.27%	30.0	1.0	1.0	336.0	116	575,897	78,134,083	78,134,083			
2015	Oct-15		238.3	3.4	120.52%	31.0	1.0	1.0	336.0	116	576,976	76,068,854	76,068,854			
2015	Nov-15		408.5	0.0	120.77%	30.0	1.0	1.0	336.0	116	578,054	74,975,981	74,975,981			
2015	Dec-15		615.7	0.0	121.02%	31.0	0.0	0.0	352.0	117	579,133	73,427,177	73,427,177			
			Weather Normalized													

Regression Model for General Service > 700 kW

<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Number of Customers</u>	<u>Population</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
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	Actual	Predicted	Variance (kWh)	Variance %
2001				
2002				
2003				
2004	954,694,132	959,916,746	-5,222,614	-0.55%
2005	986,781,942	966,662,513	20,119,429	2.04%
2006	989,399,496	962,510,540	26,888,956	2.72%
2007	974,656,023	964,526,899	10,129,124	1.04%
2008	899,609,526	937,291,640	-37,682,114	-4.19%
2009	815,583,527	869,224,457	-53,640,930	-6.58%
2010	869,059,828	861,256,125	7,803,703	0.90%
2011	859,379,044	866,987,834	-7,608,790	-0.89%
2012	887,907,305	873,567,776	14,339,529	1.61%
2013	898,418,491	873,544,785	24,873,707	2.77%
2014		882,015,210		
2015		899,586,366		

Total	9,135,489,315	9,135,489,315	0
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SUMMARY OUTPUT

Regression Statistics	
Multiple R	87.02%
R Square	75.72%
Adjusted R Square	73.98%
Standard Error	3,300,722.18
Observations	120

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	8	3.77238E+15	4.71548E+14	43.28	0.0000
Residual	111	1.20932E+15	1.08948E+13		
Total	119	4.9817E+15			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	(52,147,717.57)	24,367,691.45	(2.1400)	0.0345	-100433923.4	-3861511.753	-100433923.4	-3861511.753
Heating Degree Days	(5,973.83)	2,043.26	(2.9237)	0.0042	-10022.6812	-1924.981727	-10022.6812	-1924.981727
Cooling Degree Days	45,537.55	11,708.97	3.8891	0.0002	22335.44182	68739.64977	22335.44182	68739.64977
Ontario Real GDP Monthly %	102,937,256.59	17,607,436.40	5.8462	0.0000	68046947.02	137827566.2	68046947.02	137827566.2
Number of Days in Month	155,197.66	415,617.74	0.3734	0.7096	-668376.6125	978771.9408	-668376.6125	978771.9408
Spring Fall Flag	2,165,696.55	858,672.73	2.5221	0.0131	464179.2586	3867213.836	464179.2586	3867213.836
Number of Peak Hours	91,726.47	18,859.48	4.8637	0.0000	54355.1453	129097.7959	54355.1453	129097.7959
Number of Customers	250,980.23	94,062.34	2.6682	0.0088	64589.42607	437371.0321	64589.42607	437371.0321
Population	(106.51)	12.52	(8.5096)	0.0000	-131.3097194	-81.7064643	-131.3097194	-81.7064643

Regression Model for Large User

		Purchased	Heating Degree Days	Cooling Degree Days	Ontario Real GDP Monthly %	Number of Days in Month	Spring Fall Flag	Number of Peak Hours	Number of Customers	Population	Predicted Purchases	Variances (kWh)	% Variance
2004	Jan-04	24,892,586	849.1	0.0	101.59%	31.0	0.0	336.0	4	373,417	24,100,332	-792,254	-3.18%
2004	Feb-04	22,068,450	631.7	0.0	101.81%	29.0	0.0	320.0	3	374,833	22,429,013	360,563	1.63%
2004	Mar-04	24,448,459	487.3	0.0	102.02%	31.0	1.0	368.0	3	376,250	24,230,879	-217,580	-0.89%
2004	Apr-04	24,079,178	331.5	0.0	102.24%	30.0	1.0	336.0	3	377,667	23,916,901	-162,277	-0.67%
2004	May-04	25,510,716	158.9	8.6	102.45%	31.0	1.0	320.0	3	379,083	24,423,235	-1,087,481	-4.26%
2004	Jun-04	24,937,299	44.2	31.6	102.67%	30.0	0.0	352.0	3	380,500	25,022,003	84,704	0.34%
2004	Jul-04	24,346,794	3.6	86.4	102.89%	31.0	0.0	336.0	3	381,917	25,759,870	1,413,076	5.80%
2004	Aug-04	26,610,716	12.8	59.6	103.11%	31.0	0.0	336.0	3	383,333	25,537,373	-1,073,343	-4.03%
2004	Sep-04	25,146,986	30.0	41.2	103.32%	30.0	1.0	336.0	3	384,750	25,404,113	257,127	1.02%
2004	Oct-04	24,567,521	226.3	1.5	103.54%	31.0	1.0	320.0	3	386,167	24,639,244	71,723	0.29%
2004	Nov-04	24,564,743	379.1	0.0	103.76%	30.0	1.0	352.0	3	387,583	24,668,119	103,376	0.42%
2004	Dec-04	23,075,329	643.4	0.0	103.98%	31.0	0.0	336.0	3	389,000	23,956,799	881,470	3.82%
2005	Jan-05	25,439,201	770.0	0.0	104.22%	31.0	0.0	320.0	3	391,000	23,543,111	-1,896,090	-7.45%
2005	Feb-05	23,052,705	616.4	0.0	104.45%	28.0	0.0	320.0	3	393,000	23,275,550	222,845	0.97%
2005	Mar-05	24,861,118	608.6	0.0	104.69%	31.0	1.0	352.0	3	395,000	24,782,281	-78,837	-0.32%
2005	Apr-05	24,344,420	306.8	0.0	104.93%	30.0	1.0	336.0	3	397,000	25,016,946	672,526	2.76%
2005	May-05	25,511,916	189.4	0.8	105.17%	31.0	1.0	336.0	3	399,000	25,578,565	66,649	0.26%
2005	Jun-05	27,919,256	8.9	146.3	105.41%	30.0	0.0	352.0	3	401,000	27,394,892	-524,364	-1.88%
2005	Jul-05	24,682,647	0.0	188.7	105.65%	31.0	0.0	320.0	3	403,000	27,693,632	3,010,985	12.20%
2005	Aug-05	28,680,113	0.2	140.7	105.89%	31.0	0.0	352.0	3	405,000	27,758,450	-921,663	-3.21%
2005	Sep-05	26,843,059	22.6	52.1	106.13%	30.0	1.0	336.0	3	407,000	26,615,102	-227,957	-0.85%
2005	Oct-05	26,830,506	220.2	7.6	106.37%	31.0	1.0	320.0	3	409,000	25,801,462	-1,029,044	-3.84%
2005	Nov-05	26,025,348	388.4	0.0	106.61%	30.0	1.0	352.0	3	411,000	25,738,883	-286,465	-1.10%
2005	Dec-05	24,384,954	665.3	0.0	106.85%	31.0	0.0	320.0	3	413,000	24,761,525	376,571	1.54%
2006	Jan-06	26,409,471	551.8	0.0	107.07%	31.0	0.0	336.0	3	414,667	25,321,668	-1,087,803	-4.12%
2006	Feb-06	27,446,019	604.3	0.0	107.29%	28.0	0.0	320.0	4	416,333	25,887,006	-1,559,013	-5.68%
2006	Mar-06	29,912,132	516.6	0.0	107.50%	31.0	1.0	368.0	4	418,000	27,795,503	-2,116,629	-7.08%
2006	Apr-06	28,505,284	293.3	0.0	107.72%	30.0	1.0	304.0	4	419,667	27,124,778	-1,380,506	-4.84%
2006	May-06	30,307,281	136.9	26.0	107.94%	31.0	1.0	352.0	4	421,333	28,769,903	-1,537,378	-5.07%
2006	Jun-06	30,614,279	19.5	73.6	108.15%	30.0	0.0	352.0	4	423,000	29,146,125	-1,468,154	-4.80%
2006	Jul-06	26,990,378	0.0	167.3	108.37%	31.0	0.0	320.0	4	424,667	30,013,924	3,023,546	11.20%
2006	Aug-06	31,350,848	4.2	101.6	108.59%	31.0	0.0	352.0	4	426,333	29,872,064	-1,478,784	-4.72%
2006	Sep-06	29,125,981	80.9	12.9	108.81%	30.0	1.0	320.0	4	428,000	28,363,745	-762,236	-2.62%
2006	Oct-06	27,553,611	288.3	1.1	109.03%	31.0	1.0	336.0	4	429,667	28,368,982	815,371	2.96%
2006	Nov-06	26,855,914	382.2	0.0	109.25%	30.0	1.0	352.0	4	431,333	28,274,153	1,418,239	5.28%
2006	Dec-06	25,818,150	500.5	0.0	109.47%	31.0	0.0	304.0	4	433,000	27,365,614	1,547,464	5.99%
2007	Jan-07	24,097,074	647.1	0.0	109.65%	31.0	0.0	352.0	4	434,417	27,874,269	3,777,195	15.67%
2007	Feb-07	25,690,526	740.1	0.0	109.82%	28.0	0.0	320.0	4	435,833	26,590,635	900,109	3.50%
2007	Mar-07	30,547,353	546.7	0.0	110.00%	31.0	1.0	352.0	5	437,250	29,957,521	-589,832	-1.93%
2007	Apr-07	27,869,840	356.4	0.0	110.18%	30.0	1.0	320.0	5	438,667	29,696,831	1,826,991	6.56%
2007	May-07	32,187,239	136.4	22.4	110.36%	31.0	1.0	352.0	5	440,083	31,170,603	-1,016,636	-3.16%
2007	Jun-07	33,241,475	16.5	99.2	110.53%	30.0	0.0	336.0	5	441,500	31,605,807	-1,635,668	-4.92%
2007	Jul-07	32,395,607	3.2	106.1	110.71%	31.0	0.0	336.0	5	442,917	31,999,476	-396,131	-1.22%
2007	Aug-07	27,649,753	5.2	141.0	110.89%	31.0	0.0	352.0	5	444,333	32,687,806	5,038,053	18.22%
2007	Sep-07	31,444,726	36.9	47.5	111.07%	30.0	1.0	304.0	5	445,750	30,957,077	-487,649	-1.55%
2007	Oct-07	31,681,938	137.7	19.8	111.25%	31.0	1.0	352.0	5	447,167	31,483,867	-198,071	-0.63%
2007	Nov-07	30,556,407	462.5	0.0	111.43%	30.0	1.0	352.0	5	448,583	30,455,274	-101,133	-0.33%
2007	Dec-07	32,575,406	630.7	0.0	111.61%	31.0	0.0	304.0	6	450,000	30,934,434	-1,640,972	-5.04%
2008	Jan-08	32,990,709	623.5	0.0	111.55%	31.0	0.0	352.0	6	451,250	31,652,159	-1,338,550	-4.06%
2008	Feb-08	32,870,790	674.7	0.0	111.49%	29.0	0.0	320.0	6	452,500	30,573,127	-2,297,663	-6.99%
2008	Mar-08	32,220,491	610.2	0.0	111.43%	31.0	1.0	304.0	6	453,750	31,106,852	-1,113,639	-3.46%
2008	Apr-08	31,299,525	253.9	0.0	111.37%	30.0	1.0	352.0	6	455,000	32,311,028	1,011,503	3.23%
2008	May-08	32,077,608	193.5	2.5	111.31%	31.0	1.0	336.0	6	456,250	32,402,288	324,680	1.01%
2008	Jun-08	35,047,709	22.7	71.5	111.25%	30.0	0.0	336.0	6	457,500	32,998,723	-2,048,986	-5.85%
2008	Jul-08	33,674,468	1.0	111.0	111.19%	31.0	0.0	352.0	6	458,750	33,903,895	229,427	0.68%
2008	Aug-08	35,996,673	12.7	64.0	111.13%	31.0	0.0	320.0	6	460,000	32,843,812	-3,152,861	-8.76%
2008	Sep-08	34,472,066	59.0	26.7	111.08%	30.0	1.0	336.0	6	461,250	32,571,550	-1,900,516	-5.51%
2008	Oct-08	32,721,930	278.6	0.0	111.02%	31.0	1.0	352.0	6	462,500	32,270,439	-451,491	-1.38%
2008	Nov-08	30,831,140	451.6	0.0	110.96%	30.0	1.0	304.0	6	463,750	30,920,986	89,846	0.29%
2008	Dec-08	28,080,667	654.6	0.0	110.90%	31.0	0.0	336.0	6	465,000	30,950,758	2,870,091	10.22%
2009	Jan-09	30,653,309	830.2	0.0	110.59%	31.0	0.0	336.0	6	467,667	30,439,313	-213,996	-0.70%
2009	Feb-09	27,925,468	606.4	0.0	110.29%	28.0	0.0	304.0	6	470,333	29,577,673	1,652,205	5.92%
2009	Mar-09	30,503,252	533.8	0.0	109.99%	31.0	1.0	352.0	6	473,000	31,218,273	715,021	2.34%
2009	Apr-09	27,639,678	305.8	1.2	109.69%	30.0	1.0	320.0	6	475,667	30,825,586	3,185,908	11.53%
2009	May-09	21,988,204	158.8	6.9	109.39%	31.0	1.0	320.0	6	478,333	31,256,472	9,268,268	42.15%
2009	Jun-09	25,690,773	49.3	34.2	109.09%	30.0	0.0	352.0	6	481,000	31,653,006	5,962,233	23.21%
2009	Jul-09	29,193,321	6.2	43.7	108.79%	31.0	0.0	352.0	6	483,667	31,914,463	2,721,142	9.32%
2009	Aug-09	31,958,533	9.8	91.0	108.49%	31.0	0.0	320.0	6	486,333	31,774,131	-184,402	-0.58%
2009	Sep-09	30,977,444	55.2	20.9	108.20%	30.0	1.0	336.0	6	489,000	31,033,165	55,721	0.18%
2009	Oct-09	31,028,269	287.8	0.0	107.90%	31.0	1.0	336.0	6	491,667	30,406,500	-621,769	-2.00%
2009	Nov-09	28,030,347	361.2	0.0	107.60%	30.0	1.0	320.0	6	494,333	29,636,859	1,606,512	5.73%
2009	Dec-09	31,222,652	631.3	0.0	107.31%	31.0	0.0	352.0	6	497,000	29,415,334	-1,807,318	-5.79%

Regression Model for Large Users

				Cooling Degree	Ontario Real	Number of Days in			Number of	Number of				
		Purchased	Heating Degree Days	Days	GDP Monthly %	Month	Spring	Fall	Peak Hours	Customers	Population	Predicted Purchases	Variances (kWh)	% Variance
2010	Jan-10	29,895,628	720.0	0.0	107.57%	31.0	0.0	0.0	320.0	6	497,583	28,853,565	-1,042,063	-3.49%
2010	Feb-10	29,558,707	598.3	0.0	107.83%	28.0	0.0	0.0	304.0	6	498,167	28,296,052	-1,262,655	-4.27%
2010	Mar-10	30,869,642	422.8	0.0	108.09%	31.0	1.0	0.0	368.0	6	498,750	30,657,483	-212,159	-0.69%
2010	Apr-10	30,387,116	225.1	0.0	108.35%	30.0	1.0	0.0	320.0	6	499,333	30,209,223	-177,893	-0.59%
2010	May-10	31,789,215	107.9	45.7	108.62%	31.0	1.0	0.0	320.0	6	499,917	31,277,176	-512,039	-1.61%
2010	Jun-10	30,789,397	21.7	58.7	108.88%	30.0	0.0	0.0	352.0	6	500,500	31,736,839	947,442	3.08%
2010	Jul-10	29,820,209	1.8	164.9	109.15%	31.0	0.0	0.0	336.0	6	501,083	33,015,376	3,195,167	10.71%
2010	Aug-10	34,963,264	2.1	138.8	109.41%	31.0	0.0	0.0	336.0	6	501,667	32,845,658	-2,117,606	-6.06%
2010	Sep-10	32,693,393	78.2	31.5	109.68%	30.0	1.0	0.0	336.0	6	502,250	31,658,686	-1,034,707	-3.16%
2010	Oct-10	30,885,469	241.6	0.0	109.94%	31.0	1.0	0.0	320.0	6	502,833	31,076,640	191,171	0.62%
2010	Nov-10	27,720,331	405.3	0.0	110.21%	30.0	1.0	0.0	336.0	6	503,417	30,880,665	3,160,334	11.40%
2010	Dec-10	28,388,785	676.2	0.0	110.48%	31.0	0.0	0.0	368.0	6	504,000	30,922,165	2,533,380	8.92%
2011	Jan-11	32,200,859	775.3	0.0	110.64%	31.0	0.0	0.0	320.0	6	505,659	30,042,413	-2,158,446	-6.70%
2011	Feb-11	30,726,042	654.2	0.0	110.80%	28.0	0.0	0.0	304.0	6	507,319	29,432,936	-1,293,106	-4.21%
2011	Mar-11	33,739,196	572.8	0.0	110.97%	31.0	1.0	0.0	368.0	6	508,978	31,552,133	-2,187,063	-6.48%
2011	Apr-11	32,062,516	332.3	0.0	111.13%	30.0	1.0	0.0	304.0	6	510,637	30,893,535	-1,168,981	-3.65%
2011	May-11	34,848,440	134.1	13.0	111.30%	31.0	1.0	0.0	336.0	6	512,296	32,213,900	-2,634,540	-7.56%
2011	Jun-11	35,528,790	19.0	52.2	111.47%	30.0	0.0	0.0	352.0	6	513,956	32,717,883	-2,810,907	-7.91%
2011	Jul-11	36,767,313	0.0	198.6	111.63%	31.0	0.0	0.0	320.0	6	515,615	34,131,343	-2,635,970	-7.17%
2011	Aug-11	35,953,367	0.0	122.2	111.80%	31.0	0.0	33.5	352.0	6	517,274	33,859,155	-2,094,212	-5.82%
2011	Sep-11	31,553,102	48.2	39.7	111.96%	30.0	1.0	0.0	336.0	6	518,933	32,698,809	1,145,707	3.63%
2011	Oct-11	33,497,181	235.5	2.4	112.13%	31.0	1.0	0.0	336.0	6	520,593	32,199,594	-1,297,587	-3.87%
2011	Nov-11	32,094,802	342.1	0.0	112.30%	30.0	1.0	0.0	352.0	6	522,252	32,041,448	-53,354	-0.17%
2011	Dec-11	30,521,363	534.0	0.0	112.46%	31.0	0.0	0.0	336.0	6	523,911	31,452,277	930,914	3.05%
2012	Jan-12	33,211,776	611.1	0.0	112.60%	31.0	0.0	0.0	336.0	6	525,085	31,348,696	-1,863,080	-5.61%
2012	Feb-12	30,909,977	531.7	0.0	112.74%	29.0	0.0	0.0	320.0	6	526,259	30,870,402	-39,575	-0.13%
2012	Mar-12	33,762,212	349.4	0.2	112.88%	31.0	1.0	0.0	352.0	6	527,433	32,473,599	-1,288,613	-3.82%
2012	Apr-12	32,032,356	321.7	0.0	113.02%	30.0	1.0	0.0	320.0	6	528,606	31,865,271	-167,085	-0.52%
2012	May-12	35,432,369	80.7	36.7	113.16%	31.0	1.0	0.0	352.0	6	529,780	33,521,407	-1,910,962	-5.39%
2012	Jun-12	35,750,162	23.2	101.6	113.30%	30.0	0.0	0.0	336.0	6	530,954	33,686,094	-2,064,068	-5.77%
2012	Jul-12	34,932,252	0.0	195.4	113.45%	31.0	0.0	0.0	352.0	6	532,128	35,270,651	338,399	0.97%
2012	Aug-12	38,510,852	2.0	112.1	113.59%	31.0	0.0	0.0	352.0	6	533,302	34,419,684	-4,091,168	-10.62%
2012	Sep-12	35,110,511	85.0	35.6	113.73%	30.0	1.0	0.0	304.0	6	534,476	32,753,313	-2,357,198	-6.71%
2012	Oct-12	34,797,105	242.5	1.1	113.87%	31.0	1.0	0.0	352.0	6	535,649	33,076,112	-1,720,993	-4.95%
2012	Nov-12	32,840,888	434.0	0.0	114.01%	30.0	1.0	0.0	352.0	6	536,823	32,505,469	-335,419	-1.02%
2012	Dec-12	30,112,897	533.5	0.0	114.15%	31.0	0.0	0.0	304.0	6	537,997	31,603,918	1,491,021	4.95%
2013	Jan-13	32,033,367	624.4	0.0	114.27%	31.0	0.0	0.0	352.0	6	539,268	32,202,956	169,589	0.53%
2013	Feb-13	29,919,580	631.5	0.0	114.40%	28.0	0.0	0.0	304.0	6	540,539	30,824,773	905,193	3.03%
2013	Mar-13	31,979,964	554.8	0.0	114.52%	31.0	1.0	0.0	320.0	6	541,809	32,180,039	200,075	0.63%
2013	Apr-13	30,418,582	358.6	0.0	114.64%	30.0	1.0	0.0	352.0	6	543,080	32,893,344	2,474,762	8.14%
2013	May-13	33,755,959	109.1	23.1	114.77%	31.0	1.0	0.0	352.0	6	544,351	33,918,995	163,036	0.48%
2013	Jun-13	33,333,094	33.4	59.3	114.89%	30.0	0.0	0.0	320.0	6	545,622	33,555,912	222,818	0.67%
2013	Jul-13	32,386,352	1.4	133.3	115.01%	31.0	0.0	0.0	352.0	6	546,892	35,182,325	2,795,973	8.63%
2013	Aug-13	35,003,472	4.6	93.2	115.14%	31.0	0.0	0.0	336.0	6	548,163	34,541,467	-462,005	-1.32%
2013	Sep-13	32,196,570	89.6	28.0	115.26%	30.0	1.0	0.0	320.0	6	549,434	33,477,467	1,280,897	3.98%
2013	Oct-13	32,247,765	224.2	0.0	115.39%	31.0	1.0	0.0	352.0	6	550,705	33,662,548	1,414,783	4.39%
2013	Nov-13	31,816,461	478.3	0.0	115.51%	30.0	1.0	0.0	336.0	6	551,975	32,721,954	905,493	2.85%
2013	Dec-13	30,229,872	687.7	0.0	115.64%	31.0	0.0	0.0	320.0	6	553,246	32,081,173	1,851,301	6.12%
2014	Jan-14		700.3	0.0	115.84%	31.0	0.0	0.0	352.0	6	554,325	32,629,035	32,629,035	
2014	Feb-14		628.9	0.0	116.04%	28.0	0.0	0.0	304.0	6	555,403	31,446,179	31,446,179	
2014	Mar-14		520.3	0.0	116.24%	31.0	1.0	0.0	320.0	6	556,482	32,902,564	32,902,564	
2014	Apr-14		308.5	0.1	116.44%	30.0	1.0	0.0	352.0	6	557,561	33,684,666	33,684,666	
2014	May-14		140.6	18.6	116.64%	31.0	1.0	0.0	336.0	6	558,639	34,284,194	34,284,194	
2014	Jun-14		25.8	72.8	116.84%	30.0	0.0	0.0	336.0	6	559,718	34,724,420	34,724,420	
2014	Jul-14		1.7	139.5	117.05%	31.0	0.0	0.0	352.0	6	560,797	36,046,206	36,046,206	
2014	Aug-14		5.4	106.4	117.25%	31.0	0.0	35.0	320.0	6	561,875	35,270,120	35,270,120	
2014	Sep-14		58.6	33.6	117.45%	30.0	1.0	0.0	336.0	6	562,954	34,717,591	34,717,591	
2014	Oct-14		238.3	3.4	117.66%	31.0	1.0	0.0	352.0	6	564,033	34,576,918	34,576,918	
2014	Nov-14		408.5	0.0	117.86%	30.0	1.0	0.0	320.0	6	565,111	33,561,174	33,561,174	
2014	Dec-14		615.7	0.0	118.06%	31.0	0.0	0.0	336.0	6	566,190	33,454,151	33,454,151	
2015	Jan-15		700.3	0.0	118.31%	31.0	0.0	0.0	336.0	6	567,269	33,382,093	33,382,093	
2015	Feb-15		628.9	0.0	118.55%	28.0	0.0	0.0	304.0	6	568,347	32,464,528	32,464,528	
2015	Mar-15		520.3	0.0	118.79%	31.0	1.0	0.0	352.0	6	569,426	34,432,538	34,432,538	
2015	Apr-15		308.5	0.1	119.04%	30.0	1.0	0.0	336.0	6	570,504	34,495,002	34,495,002	
2015	May-15		140.6	18.6	119.28%	31.0	1.0	0.0	320.0	6	571,583	35,113,760	35,113,760	
2015	Jun-15		25.8	72.8	119.53%	30.0	0.0	0.0	352.0	6	572,662	36,065,816	36,065,816	
2015	Jul-15		1.7	139.5	119.78%	31.0	0.0	0.0	352.0	6	573,740	37,160,704	37,160,704	
2015	Aug-15		5.4	106.4	120.02%	31.0	0.0	0.0	320.0	6	574,819	36,404,054	36,404,054	
2015	Sep-15		58.6	33.6	120.27%	30.0	1.0	0.0	336.0	6	575,897	35,871,031	35,871,031	
2015	Oct-15		238.3	3.4	120.52%	31.0	1.0	0.0	336.0	6	576,976	35,503,668	35,503,668	
2015	Nov-15		408.5	0.0	120.77%	30.0	1.0	0.0	336.0	6	578,054	35,000,102	35,000,102	
2015	Dec-15		615.7	0.0	121.02%	31.0	0.0	0.0	352.0	6	579,133	34,912,794	34,912,794	
			Weather Normalized											

Regression Model for Large User

<u>Purchased</u>	<u>Heating Degree Days</u>	<u>Cooling Degree Days</u>	<u>Ontario Real GDP Monthly %</u>	<u>Number of Days in Month</u>	<u>Spring Fall Flag</u>	<u>Number of Peak Hours</u>	<u>Number of Customers</u>	<u>Population</u>	<u>Predicted Purchases</u>	<u>Variances (kWh)</u>	<u>% Variance</u>
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	Actual	Predicted	Variance (kWh)	Variance %
2001				
2002				
2003				
2004	294,248,777	294,087,881	160,896	0.05%
2005	308,575,243	307,960,400	614,843	0.20%
2006	340,889,348	336,303,465	4,585,883	1.35%
2007	359,937,344	365,413,600	-5,476,256	-1.52%
2008	392,283,776	384,505,618	7,778,158	1.98%
2009	346,811,250	369,150,773	-22,339,523	-6.44%
2010	367,761,156	371,429,527	-3,668,371	-1.00%
2011	399,492,971	383,235,427	16,257,544	4.07%
2012	407,403,357	393,394,615	14,008,742	3.44%
2013	385,321,038	397,242,954	-11,921,916	-3.09%
2014		407,297,218		
2015		420,806,089		

Total	3,602,724,260	3,602,724,260	0
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SUMMARY OUTPUT

Regression Statistics	
Multiple R	85.23%
R Square	72.64%
Adjusted R Square	70.67%
Standard Error	1,970,138.22
Observations	120

ANOVA					
	df	SS	MS	F	Significance F
Regression	8	1.14392E+15	1.4299E+14	36.84	0.0000
Residual	111	4.3084E+14	3.88144E+12		
Total	119	1.57476E+15			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	(34,554,483.29)	11,716,369.75	(2.9492)	0.0039	-57771251.38	-11337715.2	-57771251.38	-11337715.2
Heating Degree Days	(2,033.12)	1,213.78	(1.6750)	0.0967	-4438.311979	372.0730787	-4438.311979	372.0730787
Cooling Degree Days	10,811.67	7,003.86	1.5437	0.1255	-3066.944843	24690.29126	-3066.944843	24690.29126
Ontario Real GDP Monthly %	44,338,384.60	10,623,380.62	4.1737	0.0001	23287447.36	65389321.84	23287447.36	65389321.84
Number of Days in Month	223,352.88	248,087.21	0.9003	0.3699	-268248.4742	714954.2395	-268248.4742	714954.2395
Spring Fall Flag	237,832.65	513,287.31	0.4634	0.6440	-779280.3773	1254945.683	-779280.3773	1254945.683
Number of Peak Hours	15,391.64	11,261.77	1.3667	0.1745	-6924.316117	37707.58933	-6924.316117	37707.58933
Number of Customers	1,505,091.73	309,186.26	4.8679	0.0000	892418.5257	2117764.925	892418.5257	2117764.925
Population	(7.44)	8.58	(0.8671)	0.3878	-24.44671818	9.564178229	-24.44671818	9.564178229