

EXHIBIT 3 – OPERATING REVENUE

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ATTACHMENT 3-1 LOAD FORECAST MODEL

LOAD AND REVENUE FORECAST

This Exhibit provides the details of Milton Hydro Distribution Inc.'s ("Milton Hydro") operating revenue for 2011 OEB Approved, 2011 Actual, 2012 Actual, 2013 Actual, 2014 Actual, the 2015 Bridge Year and the 2016 Test Year. This Exhibit also provides a detailed variance analysis by rate classification of the operating revenue components. Distribution revenue excludes revenue from commodity sales.

Milton Hydro is proposing a total Service Revenue Requirement of \$19,109,522 for the 2016 Test Year. This amount includes a Base Revenue Requirement of \$17,207,367 plus revenue offsets of \$1,902,155 to be recovered through Other Revenue.

Other Revenue include Late Payment charges, Specific Service charges, Rent from Electric Property, Miscellaneous Service revenues, Standard Supply Service ("SSS") Administrative charges and Interest. A summary of these operating revenues together with a materiality analysis of variances is presented in Table 3-15.

The following Table 3-1 summarizes Milton Hydro's total operating revenue. Revenue for each of the actual years is from Milton Hydro's audited Financial Statements which reconcile to the annual filings with the OEB. The 2016 Test Year distribution revenue is provided on the basis of both existing and proposed distribution rates. Revenue for the General Service >50 kW, the General Service 50 – 999 kW, General Service 1000 – 4999 and Large User customer classes are net of transformer allowance credits to eligible customers within these customer classes.

Table 3-1

Summary of Operating Revenue

Description	2011 OEB Approved	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Bridge Year	2016 Test Year at Existing Rates	2016 Test Year at Proposed Rates
<u>Distribution Revenues</u>								
Residential	8,408,648	8,333,241	8,771,436	9,471,141	9,892,531	10,462,721	10,791,873	11,780,108
GS < 50 kW	1,700,610	1,790,780	1,875,938	1,951,409	2,035,643	2,039,830	2,135,416	2,182,114
GS >50 to 999 kW	1,483,511	1,372,975	1,473,965	1,525,725	1,569,042	1,622,836	1,656,237	2,050,581
GS >1000 to 4999 kW	695,085	752,362	794,873	685,067	674,194	705,631	651,021	395,338
Large Use	543,950	467,000	515,443	611,690	684,767	708,590	708,569	469,596
Sentinel Lights	9,386	6,918	12,911	14,529	14,408	15,410	14,584	32,876
Street Lighting	119,370	90,126	193,697	228,415	263,662	251,500	219,504	253,593
Unmetered and Scattered	44,620	42,041	37,900	38,914	39,815	39,815	39,517	43,161
Total Distribution Revenue	13,005,180	12,855,444	13,676,163	14,526,890	15,174,062	15,846,333	16,216,720	17,207,367
<u>Other Revenue</u>								
Specific Service Charges	403,492	520,106	490,084	651,385	640,410	625,319	677,992	677,992
Late Payment Charges	156,670	161,220	170,412	197,390	174,673	182,084	191,188	191,188
Other Operating Revenues	172,082	181,462	176,956	174,630	172,011	178,087	292,287	292,287
Other Income	727,155	754,018	618,711	688,342	738,925	716,934	740,688	740,688
Total Other Revenue	1,459,399	1,616,806	1,456,163	1,711,747	1,726,019	1,702,424	1,902,155	1,902,155
Total Operating Revenue	14,464,579	14,472,250	15,132,326	16,238,637	16,900,081	17,548,757	18,118,875	19,109,522

Summary of Load and Customer/Connection Forecast

The purpose of this evidence is to present the process used by Milton Hydro to prepare the weather normalized load and customer/connection forecast used to design the proposed 2016 Test Year distribution rates.

In summary, as a starting point Milton Hydro has used the same regression analysis methodology approved by the Ontario Energy Board (the "OEB") and accepted by intervenors in Milton Hydro's 2011 Cost of Service ("COS") Application EB-2010-0137. Milton Hydro has updated the analysis for actual power consumed by each customer class to May 2015. As described below, the updated regression analysis includes all the variables used in the 2011 COS application.

The overall process of load forecasting by conducting a regression analysis on historical electricity consumption for the individual customer classes to produce an equation that will predict purchases is appropriate. As Milton Hydro bills 100% of its customers monthly, the monthly consumption data for the amount of electricity kilowatts ("kWhs") consumed by customers in the respective class is a known quantity. With a regression analysis, the customer class consumption can be related to other monthly explanatory variables such as heating degree days and cooling degree days which occur in the same month. The results of the regression analysis produces an equation that predicts the class consumption based on the explanatory variables. This prediction model is then used as the basis to forecast the total level of weather normalized class consumption for the 2015 Bridge Year and the 2016 Test Year. A detailed explanation of the process is provided later in this evidence.

Two significant advantages of using the individual customer class consumption for predicting the 2015 Bridge Year and the 2016 Test Year monthly class consumption are:

- The estimation or conversion error of allocating a distributor's total utility wide kWh purchases across customer classes for monthly predictions is removed as there is no conversion when actual class consumption is used; and
- Using actual customer class consumption already accounts for historical conservation and demand management ("CDM") as it is already part of the actual customer class monthly usage.

1 Milton Hydro's smart meter program was fully deployed by the end of 2010 and Milton Hydro
2 believes that the data that may be derived from the actual time of day usage would provide even
3 more accurate forecasts. However, Milton Hydro determined that four (4) complete years, 2011
4 to 2014, of smart meter usage is not long enough to accurately make a prediction on. By the
5 next COS application for 2021 Milton Hydro will have nine (9) years of hourly customer usage
6 which may provide for accurate forecasts if it can be agreed that the nine (9) year time period is
7 appropriate.

8 Milton Hydro's load forecast methodology used in its 2011 COS application was tested by
9 intervenors with different variables and except for the addition of one (1) new customer in the
10 General Service 1000 to 4999 class and a kWh adjustment to the Large User class, it was
11 determined that the variables used by Milton Hydro resulted in the most accurate load forecast
12 and was agreed to by all intervenors as part of the Settlement Agreement..

13 Based on the acceptance of Milton Hydro's methodology in its 2011 COS application the same
14 variables are used in this regression analysis for determining the load forecast for the 2015
15 Bridge Year and the 2016 Test Year. Milton Hydro has used the actual heating and cooling
16 degree day in the load forecast up to May 2015. The variables used are: the ten (10) year
17 average for heating and cooling degree days for the period June 2016 to December 2016; the
18 number of days in the month; the spring/fall flag; the August 2003 blackout flag and the number
19 of Milton Hydro customers for calculating the forecast for the Residential and General Service
20 <50 kW customer classes and Milton Hydro added the number of peak hours for the General
21 Service 50 – 999 kW customer class.

22 Table 3-2 provides a summary of the actual and the weather normalized load and
23 customer/connection forecast results from the regression analysis.

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Table 3-2

Summary of Load and Customer/Connection Forecast

Milton Hydro Weather Normal Customer Class Load Forecast for 2016 Rate Application

Description	2001 Actual	2002 Actual	2003 Actual	2004 Actual	2005 Actual	2006 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Bridge Year Normal	2016 Test Year Normal
Billed kWh	525,513,862	564,764,319	585,995,585	589,630,611	636,787,690	636,829,104	672,730,918	685,172,482	673,060,306	725,606,710	754,466,670	783,449,114	814,644,302	836,470,876	849,532,503	857,666,193
By Class																
Residential																
Customers	9,693	12,314	13,821	15,760	17,611	18,720	20,305	22,755	24,832	26,587	27,826	29,614	31,309	32,268	33,268	34,768
kWh	134,047,710	150,212,623	158,175,327	169,087,408	192,683,717	195,292,370	211,418,658	218,391,097	230,401,041	258,659,735	268,725,507	281,220,955	287,291,134	290,591,983	303,419,115	309,752,959
General Service < 50 kW																
Customers	1,700	1,713	1,760	1,803	1,990	1,998	2,048	2,136	2,203	2,283	2,374	2,425	2,477	2,544	2,611	2,680
kWh	59,298,833	60,711,850	61,255,640	61,650,512	65,492,217	64,355,939	68,462,631	71,310,393	73,618,223	79,867,181	83,338,834	84,168,273	87,021,883	88,384,427	90,435,059	92,617,956
General Service 50 to 999 kW																
Customers	192	218	212	229	244	245	273	274	275	257	271	271	273	284	293	302
kWh	145,138,639	147,962,301	148,063,380	155,978,135	164,259,880	165,309,885	172,334,963	180,947,735	184,558,255	192,607,268	192,782,770	194,206,573	203,179,611	204,924,670	203,733,680	205,340,394
kW	413,565	415,618	409,870	420,450	441,283	436,353	456,775	475,950	494,157	502,595	503,231	520,812.31	541,769.58	537,016	547,100	551,414
General Service 1000 to 4999 kW																
Customers	10	10	10	10	11	13	14	14	12	13	12	12	11	12	12	12
kWh	136,434,027	142,026,097	140,546,077	114,675,485	119,553,703	116,022,864	122,900,958	124,956,584	117,357,757	110,640,753	121,407,487	128,979,851	100,652,663	110,411,189	110,264,909	109,869,211
kW	255,515	286,432	271,068	230,160	247,851	241,018	258,605	266,355	260,952	243,580	260,972	287,183	232,734	242,504	232,512	231,678
Large User																
Customers	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
kWh	46,895,462	59,872,906	73,457,084	83,457,793	89,641,173	90,399,608	91,791,513	83,253,315	60,254,116	76,336,020	80,336,534	86,554,626	127,931,415	133,427,900	133,319,331	133,210,761
kW	105,657	125,800	164,458	186,557	184,313	187,387	187,646	187,387	154,282	174,023	175,385	179,954	246,682.37	253,601	255,233	255,025
Streetlights																
Connections	2,283	2,348	2,408	2,466	2,529	2,579	2,634	2,709	2,774	2,795	2,900	2,991	3,046	3,097	3,165	3,234
kWh	2,910,384	3,070,173	3,488,004	3,650,549	3,961,622	4,232,885	4,566,123	4,960,009	5,438,382	6,055,919	6,418,516	6,834,941	7,077,825	7,239,934	6,973,701	5,632,779
kW	8,091	9,249	9,813	10,170	11,151	11,810	12,738	13,799	15,174	16,892	17,894	19,000	19,748	20,173	19,572	15,809
Sentinel Lights																
Connections	329	301	311	309	298	295	290	288	279	266	265	265	256	251	247	242
kWh	193,936	193,936	192,008	191,280	184,461	180,812	178,317	176,576	172,687	158,811	158,082	155,804	153,124	151,003	148,333	145,711
kW	535	539	533	531	512	507	498	495	479	441	439	413	425	419	411	404
Unmetered Loads																
Connections	110	114	122	137	139	142	169	176	183	184	187	192	192	189	204	226
kWh	594,871	714,434	818,065	939,449	1,010,917	1,034,741	1,077,755	1,176,774	1,259,845	1,281,024	1,298,941	1,328,091	1,336,647	1,339,771	1,238,376	1,096,423
Total of Above																
Customer/Connections	14,318	17,020	18,646	20,716	22,824	23,994	25,735	28,354	30,560	32,387	33,837	35,772	37,567	38,648	39,802	41,467
kWh	525,513,862	564,764,319	585,995,585	589,630,611	636,787,690	636,829,104	672,730,918	685,172,482	673,060,306	725,606,710	754,466,670	783,449,114	814,644,302	836,470,876	849,532,503	857,666,193
kW from applicable classes	783,363	837,638	855,742	847,868	885,111	877,076	916,261	943,985	925,045	937,531	957,921	1,007,362	1,041,359	1,053,713	1,054,829	1,054,330
Total from Model																
Customer/Connections	14,318	17,020	18,646	20,716	22,824	23,994	25,735	28,354	30,560	32,387	33,837	35,772	37,567	38,648	39,802	41,467
kWh	525,513,862	564,764,319	585,995,585	589,630,611	636,787,690	636,829,104	672,730,918	685,172,482	673,060,306	725,606,710	754,466,670	783,449,114	814,644,302	836,470,876	849,532,503	857,666,193
kW from applicable classes	783,363	837,638	855,742	847,868	885,111	877,076	916,261	943,985	925,045	937,531	957,921	1,007,362	1,041,359	1,053,713	1,054,829	1,054,330
Average metered customers	12,927	15,031	16,805	18,831	20,418	21,810	23,911	26,252	28,233	29,814	31,405	33,199	34,592	35,649	36,976	38,976
Average customers/connections	15,669	17,833	19,681	21,770	23,409	24,865	27,045	29,457	31,474	33,112	34,805	36,670	38,108	39,225	40,634	42,634

In the above Table 3-2, 2001 to 2014 kWh and kW are actual data based on customer class consumption. Customer counts and connections are actual values as at year end and street lights, sentinel lights and unmetered loads are measured as connections. For rate design purposes Milton Hydro averages customer counts/connections for the year based on number of customers/connections at the end of the 2015 Bridge Year and the number of customers/connections at the end of the 2016 Test Year.

Forecast Methodology – Multivariate Regression Model

Milton Hydro's weather normalized load forecast is quite simple, the actual customer class kWh billed by month is used in the regression model for the Residential, General Service <50 kW and General Service 50-999 kW customer classes. Milton Hydro has determined that these three customer classes are weather sensitive therefore Milton Hydro has run independent regression analysis for each customer class. Milton Hydro also uses the actual kWh billed each month to

1 the General Service 1000 – 4999 kW, Large User, Street Lights, Sentinel Lights and Unmetered
2 Load customer classes. The consumption used for these customer classes is the total for each
3 year.

4 Milton Hydro's customer count forecast for the Residential class for 2015 Bridge Year and the
5 2016 Test Year is based on the expected growth determined through discussions with
6 developers and their subdivision plans submitted to Milton Hydro. Based on this information
7 Milton Hydro has increased the Residential customer count for the 2015 Bridge Year and the
8 2016 Test Year by 1,000 and 1,500 customers respectively. For the purposes of the monthly
9 forecast Milton Hydro includes one-twelve ($1/12^{\text{th}}$) of the expected increase in each month
10 beginning in June 2015. Milton Hydro has used the actual monthly kWh and customer count for
11 the January to May 2015 Bridge Year.

12 The customer count forecast for the General Service <50 kW and General Service 50 – 999
13 customer class is calculated using the geomean calculated in the Rate Class Customer Model
14 tab in the load forecast model. Milton Hydro has used the actual monthly kWh consumption and
15 customer count for the January to May 2015 Bridge Year and incremented each month after by
16 one-twelve ($1/12^{\text{th}}$) of the incremental change calculated through the regression model.

17 Milton Hydro does not expect any growth in the number of customers or connections for the
18 General Service 1000 – 4999 kW, Large Users and the Sentinel Light customer classes and
19 therefore Milton Hydro has held the number of customers/connections constant for the purposes
20 of this load forecast. In May 2015 Milton Hydro contacted all twenty (20) Unmetered Load
21 customers in writing to confirm the number of connections and the load being billed. Milton
22 Hydro received responses from six (6) customers and has adjusted the number of connections
23 and load accordingly and has held the number of connections constant as all new connections
24 are metered.

25 Milton Hydro had one customer move from the General Service 1000 – 4999 kW class to the
26 Large User customer class in May of 2013. For the purposes of this load forecast Milton Hydro
27 adjusted the January to April customer count and kWh consumption for both customer classes
28 as if this customer had been a Large User for the entire year of 2013. In early 2014 Milton

Hydro gained a customer in the General Service 1000 – 4999 which accounts for the customer count for this customer going back to twelve (12).

The forecast for each individual customer class has been adjusted for the expected Conservation and Demand Management (“CDM”) results for the 2015 Bridge Year and the 2016 Test Year. The CDM calculations are discussed further in this EXHIBIT.

For those rate classes that use kW for the distribution volumetric billing determinant, an adjustment factor is applied to the class energy forecast based on the historical relationship between kW and kWh.

Load Forecast

As discussed above, Milton Hydro used the following variables in the regression model: the ten (10) year average for heating and cooling degree days for the period June 2015 to December 2016 as actual heating and cooling days use up to an including May 2015; the number of days in the month; the spring/fall flag; the August 2003 blackout flag and the number of Milton Hydro customers for calculating the forecast for the Residential and General Service <50 kW customer classes and added the number of peak hours for the General Service 50 – 999 kW customer class. An explanation of the variables is provided below.

Milton Hydro has monthly data back to 2001 for each customer class in this regression model providing 168 monthly data points plus the first five months of 2015 for a total of 173 data points for each weather sensitive customer class.

Variables

The Heating and Cooling Degree Days (“HDD” & “CDD”) are derived from the Government of Canada’s Climate Daily Data Reports for each month as read at the Toronto International Airport. The HDD for a given day are the number of degree Celsius that the mean temperature is below 18°C. The CDD for a given day are the number of degree Celsius that the mean temperature is above 18°C. Milton Hydro has not tested any different mean temperature ranges. Milton Hydro updated two regression models; one for ten years average HDD & CDD from May 2006 to May 2015 and June 2005 to June 2014; the second model was updated for twenty years average HDD & CDD from May 1996 to May 2015 and June 1995 to June 2014 as

required in the Filing Guidelines. A comparison of the forecast results are set out in Table 3-10 below.

The number of days in the month are based on the calendar days including leap years and the number of days in a month impacts the consumption for a particular month, the more days in a month the potential for more actual kWh consumption and vice versa.

The spring/fall flag is used to separate the seasons with a “0” representing winter and summer and a “1” representing spring and fall. The spring/fall flag is used to differentiate the actual consumption over the season change.

The August 2003 blackout flag continues to be used as this was a significant event that left most of Ontario without electricity including 100% of the electricity customers in the Town of Milton

The number of Milton Hydro customers as the Town of Milton and therefore Milton Hydro is one of the fastest growing communities in Ontario. Milton Hydro used this variable to reflect the growth in customers. For the 2015 Bridge Year Milton Hydro used 1,000 new Residential customers and 1,500 new Residential customers in the 2016 Test Year.

The number of peak hours of the day for the General Service >50 kW is used as this has been shown to be statistically significant previously for this customer class. Peak hours are determined from the calendar and exclude weekends and statutory holidays.

APPROACH TO KILOWATT DEMAND FORECAST

Milton Hydro has five customer classes that are billed on kW demand for variable distribution charges. These customer classes are the General Service 50 – 999 kW, General Service 1000 – 4999 kW, Large Users, Street Lights and Sentinel Lights. The kW forecast for these customer classes is based on the conversion of the customer class forecast for kWh consumption to kW demand. Milton Hydro has used the model and the historical ratio of kW demand to kWh consumption and applied the average of the ratios to the forecasted customer class kWh

consumption data for the 2015 Bridge Year and the 2016 Test Year to forecast the respective kW demand.

CDM Adjustment

A manual adjustment has been made to reflect the impact for 50% of 2014, 2015 Bridge Year and 50 % of the 2016 Test Year CDM programs on the load forecast. Milton Hydro has made this adjustment to reflect the “net” impact of the CDM programs on the load forecast.

Milton Hydro prepared its regression analysis based on actual monthly billed electricity consumed by customers in each weather sensitive customer class up to and including 2014 and the annual actual consumption for the non-weather sensitive customer classes. By using actual customer consumption in the regression analysis the savings realized by customers for CDM is reflected in their actual consumption and therefore Milton Hydro submits that by using any persistence of CDM programs prior to the half year rule for 2014 CDM programs would be double counting the CDM savings related to these previous years.

Therefore, for the 2016 Test Year forecast Milton Hydro has used one-half of the 2014 OPA preliminary net kWh savings plus 2015 new program savings plus one-half of the 2016 new program savings. The OPA preliminary savings for 2014 is provided in Table 3-3 below by customer class. The CDM savings expected for 2015 and 2016 are presented in Table 3-4 which is derived from Milton Hydro's 2015 – 2020 CDM Plan submitted and accepted by the IESO on June 8, 2015.

Milton Hydro proposed to update the 2014 CDM results once the OPA/IESO Final Report is released for the 2014 program CDM savings.

Table 3-3
2014 IESO (OPA) Preliminary Results

#	Initiative	Unit	Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
			2011	2012	2013	2014
Consumer Program						
1	Appliance Retirement	Appliances				22,143
2	Appliance Exchange	Appliances				2,481
3	HVAC Incentives	Equipment				136,178
4	Conservation Instant Coupon Booklet	Measures				68,110
5	Bi-Annual Retailer Event	Measures				570,217
6	Retailer Co-op	Items				-
23	Home Assistance Program	Homes				32,339
7	Residential Demand Response (switch/pstat)†	Devices				-
8	Residential Demand Response (IHD)†	Devices				-
9	Residential New Construction	Homes				3,056,327
Residential Total					MWh	3,887.80
Business Program						
11	Direct Install Lighting	Projects				52,751
12	Building Commissioning	Buildings				-
13	New Construction	Buildings				-
14	Energy Audit	Audits				16,081
15	Small Commercial Demand Response (switch/pstat)†	Devices				-
16	Small Commercial Demand Response (IHD)†	Devices				-
17	Demand Response 3†	Facilities				-
10	Retrofit	Projects				298,671
General Service <50kW					MWh	367.50
10	Retrofit	Projects				1,122,853
General Service 50 - 999kW					MWh	1,122.85
Industrial Program						
18	Process & System Upgrades	Projects				-
19	Monitoring & Targeting	Projects				-
20	Energy Manager	Projects				-
22	Demand Response 3†	Facilities				-
10	Retrofit	Projects				133,399
General Service 1000 - 4999kW					MWh	133.40

As discussed above, Milton Hydro has calculated the 2015 Bridge Year and 2016 Test Year CDM saving based on its 2015 – 2020 CDM Plan submitted and accepted by the IESO on June 8, 2015. This plan is for new CDM programs and does not include persistence of previous CDM

programs. The following Table 3-4 sets out the programs, the planned years of implementation and CDM kWh saving expected.

Table 3-4
Breakdown of 2015 – 2020 CDM by Program

CE Tool 2015-05-21 Milton_Tab_CDM_Plan_Summary								Customer Class
	2015	2016	2017	2018	2019	2020	Total	
Residential								
Heating & Cooling	137.0	165.0	-	-	-	-	302.0	
Coupon	277.3	277.3	277.3	277.3	277.3	277.3	1,663.8	
New Home Construction	323.7	378.9	378.9	378.9	378.9	378.9	2,218.2	
HAP	36.9	36.9	36.9	36.9	36.9	36.9	221.4	
New program	-	-		775.0	775.0	775.0	2,325.0	
	774.9	858.1	693.1	1,468.1	1,468.1	1,468.1	6,730.4	Residential
Business								
ERII	1,931.9	1,908.5	1,945.4	1,988.0	1,988.0	1,988.0	11,749.8	Table XX Below
DIL (GS<50)	10.8	7.0	14.0	29.0	43.0	43.0	146.8	<50 kW
HPNC	114.0	114.0	171.0	114.0	171.0	114.0	798.0	50 - 999 kW
Audit Funding	151.7	151.7	151.7	151.7	151.7	151.7	910.2	50 - 999 kW
PSUI	-	475.0	-	16,245.0	-	-	16,720.0	>1000 kW
New Commercial Benchmark	40.0	40.0	40.0	49.0	49.0	49.0	267.0	50 - 999 kW
Street Lighting	1,555.1	2,221.6	1,199.6				4,976.3	
Future new program-unassigned	-			1,163.0	1,163.0	1,163.0	3,489.0	
	3,803.5	4,917.8	3,521.7	19,739.7	3,565.7	3,508.7	39,057.1	
	4,578.4	5,775.9	4,214.8	21,207.8	5,033.8	4,976.8	45,787.5	

The ERII program in Table 3-4 above is allocated to the different General Service customer classes. Milton Hydro has allocated the ERII program for the 2015 Bridge Year and the 2016 Test Year by the percent of uptake over the last four year CDM period 2011 to 2014. The results are provided in the following Table 3-5.

Table 3-5

Allocation of 2015 Test Year & 2016 Bridge Year ERII kWh Savings

ERII - 4 year average of uptake		Actual % Share	2015 Bridge Year kWh	2016 Test Year kWh
GS<50		19.53%	377.2	372.6
GS>50		61.00%	1178.4	1164.1
GS>1000		8.24%	159.2	157.2
GS>5000		11.24%	217.1	214.5
		100.00%	1931.9	1908.5

Once the CDM savings are determined for the above table based on the IESO (formerly OPA) preliminary savings for 2014 and the allocation to customer classes for the 2015 to 2020 programs the savings by customer class are totaled in order to determine the CDM adjustments required by the Filing Guidelines. The following Table 3-6 provides the total by customer class for 2014, the 2015 Bridge Year and the 2016 Test Year to be used for the monthly CDM adjustments to the weather sensitive customer classes and the annual adjustment for the non-weather sensitive customer classes. The 2014 and the 2016 Bridge Year CDM savings are based on the half year rule.

Table 3-6

Summary of CDM kWh Savings by Customer Class

Class	2014 Persistence 50%	2015 Bridge Year	2016 Test Year 50%
Residential	1,943,898	774,900	858,100
General Service <50 kW	183,752	388,008	379,639
General Service 50 - 999 kW	561,426	1,484,091	1,469,818
General service 1000 - 4999 kW	66,700	159,162	632,234
Large Users	0	217,139	0
Street Lights		1,555,100	2,221,600

Milton Hydro has calculated the monthly and annual adjustments based on the methodology previously used in other LDC applications and a consistent approach as outlined in the filing guidelines. Milton Hydro has calculated the monthly increment for 2014 based on 50% of the 2014 CDM savings. There is no persistence for the 2011 to 2014 CDM programs included in

1 the forecast except that the 2014 savings as programs are assumed to be implemented evenly
2 over the year, hence the half year approach for persistence in the 2016 Test Year.

3 The 2015 Bridge Year monthly increments are calculated based on 50% of the 2014 savings as
4 persistent into the 2015 Bridge Year and 50% of the 2015 Bridge Year CDM savings. The 2016
5 Test Year monthly increments are calculated on 50% of the 2014 savings as persistent into the
6 2015 Bridge Year, 100% of the 2015 Bridge Year savings and 50% of the 2016 Test Year
7 savings.

8 Milton Hydro calculated the monthly incremental CDM savings to apply to the monthly weather
9 normalized forecast determined by the model. The monthly incremental CDM savings are also
10 calculated for the non-weather sensitive customer classes but totaled for each year and
11 subtracted from the annual kWh determined in the load forecast. The Street Light customer
12 class is not weather sensitive but does have significant CDM savings through the conversion of
13 street lights to LED and therefore Milton Hydro has reflected this CDM savings in this forecast.

14 The following Table 3-7 sets out the data and results of the method used to calculate the
15 monthly increment used to calculate the monthly and annual CDM savings used in the Milton
16 Hydro's load forecast. The detailed calculations are provided in the Excel version of the load
17 forecast. Milton Hydro has provided the Excel version of the load forecast in this filing.

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Table 3-7

Calculation of CDM kWh for Monthly Change by Customer Class

Customer Weather Sensitive Class ("WS") / Non-Weather Sensitive ("NWS")	WS or NWS	OPA kWh Net Savings Persistence	OPA kWh Annual Net Savings	50% of Annual Net Savings	OPA kWh Net Savings With First Year 50%	Change Year Over Year	Monthly Increment (Year/78)
Residential	WS						
2014		0	3,887,795	1,943,898	1,943,898	1,943,898	24,922
2015		1,943,898	774,900	387,450	2,331,348	387,450	4,967
2016		2,718,798	858,100	429,050	3,147,848	488,658	6,265
General Service <50 kW	WS						
2014		0	367,503	183,752	183,752	183,752	2,356
2015		183,752	388,008	194,004	377,756	194,004	2,487
2016		571,760	379,639	189,819	761,579	219,666	2,816
General Service 50 - 999 kW	WS						
2014		0	1,122,853	561,426	561,426	561,426	7,198
2015		561,426	742,045	742,045	1,303,472	742,045	9,513
2016		2,045,517	734,909	734,909	2,780,426	849,070	10,886
General service 1000 - 4999 kW	NWS						
2014		-	133,399	66,700	66,700	66,700	855
2015		66,700	159,162	79,581	146,280	79,581	1,020
2016		225,861	632,234	316,117	541,978	328,360	4,210
Large Users	NWS						
2014		-	-	-	-	-	-
2015		-	217,139	108,570	108,570	108,570	1,392
2016		217,139	-	-	217,139	16,703	214
Street Lights	NWS						
2014		0	0	0	0	0	0
2015		0	1,555,100	777,550	777,550	777,550	9,969
2016		1,555,100	2,221,600	1,110,800	2,665,900	1,230,423	15,775

The following Table 3-8 summarizes the monthly CDM adjustments. The annual amount of CDM savings for the non-weather sensitive customer classes for the 2015 Bridge Year is 50% of the 2014 CDM savings plus the monthly calculated kWh savings for the 2015 Bridge Year based on 50% of the CDM savings. The CDM savings for the 2016 Test Year is the total of the monthly CDM savings calculated as 50% of the 2014 savings plus 2015 monthly savings plus the 2016 Test Year monthly savings at 50%. The Table 3-8 shows the monthly savings and the annual total for the 2015 Bridge Year and the 2016 Test Year. The total annual CDM savings is

3 The monthly CDM savings for the weather sensitive customer classes are calculated in the
4 same manner except the monthly load forecast is adjusted for the 2015 Bridge Year and the
5 2016 Test Year as the load forecast is based on monthly actual load data to determine the
6 weather adjusted and CDM adjusted load forecast for each class. These calculations are
7 provided in the Excel version of the load forecast model. The next Table 3-9 provides the
8 methodology for calculating the monthly CDM savings which is consistent with previous load
9 forecast applications.

Table 3-8

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Table 3-9

Methodology to Calculate the Monthly CDM Incremental Savings

General Service 1000 - 4999 kW	OPA kWh Net Savings Persistence	OPA kWh Annual Net Savings	50% of Annual Net Savings	OPA kWh Net Savings With First Year 50%	Change Year Over Year	Monthly Increment (Year/78)
2014	0	133,399	66,700	66,700	66,700	855
2015	66,700	159,162	79,581	146,280	79,581	1,020
2016	225,861	632,234	316,117	541,978	328,360	4,210

Milton Hydro has attached as Table 3-9a the Load Forecast CDM Adjustment Work Form (2016) Appendix 2-IA

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Table 3-9a – Load Forecast CDM Adjustment Work Form (2016) – Appendix 2-I

Appendix 2-I
Load Forecast CDM Adjustment Work Form (2016)

2014 is the last year of the current four year (2011-2014) CDM program, and 2015 is the first year of a new six year (2015-2020) CDM program, per the Ministerial directives of March 31, 2014. With 2016, there is a need to recognize the full year impact of the current 2011-2014 CDM program, as well as to estimate reasonable impacts for each year for the new 2015-2020 CDM program. These are combined to estimate the adjustment for CDM program impacts on the 2016 load forecast.

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

It is assumed that the new six year (2015-2020) CDM program will work similar to the existing 2011-2014 CDM program, meaning that distributors will offer programs each year that, cumulatively over the six years (from January 1, 2015 to December 31, 2020) will cumulatively achieve the new six year CDM target. This is the approach contemplated in the Ministerial directive letters of March 31, 2014 to the Board and to the OPA. Thus, distributors will be able to offer programs on a basis so that cumulatively over the period, the impacts, including persistence, of the CDM programs will accumulate towards achieving each distributor's 2015-2020 CDM target.

With this approach, it is necessary to account for estimated savings for the last year of the current program, particularly the estimated savings for new CDM programs offered in 2014, as well as the estimated savings for new CDM programs that the distributor will offer in 2015 towards achievement of the new six year (2015-2020) CDM program. This necessitates expansion of this Appendix 2-I to deal with both the 2011-2014 and 2015-2020 CDM plans. It is expected that this approach will be updated each year.

2011-2014 CDM Program - 2014, last year of the current CDM plan

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 B31 to E31. 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 C32 to E32. These results are taken from the final 2012 CDM Report issued by the OPA for that distributor in the fall of 2013.

Measured results for 2013 CDM programs for each of the years 2013 and persistence into 2014 are input into cells C33 to E33. These results are taken from the final 2013 CDM Report issued by the OPA for that distributor in the fall of 2014. Until that report is issued, the distributor should use the results from the preliminary 2013 CDM Report issued in the spring of 2014.

Measured results for 2014 CDM programs for each of the years 2013 and persistence into 2014 are input into cells C33 to E33. These results are taken from the final 2013 CDM Report issued by the OPA for that distributor in the fall of 2014. Until that report is issued, the distributor should use the results from the preliminary 2013 CDM Report issued in the spring of 2014. The distributor also needs to input the persistence of 2014 CDM programs into 2015 and 2016 in cells G45 and G46.

4 Year (2011-2014) kWh Target:						Persistence of 2014 CDM Program into 2015 and 2016	
33,500,000						2015	2016
	2011	2012	2013	2014	Total		
2011 CDM Programs	12.28%	12.24%	12.24%	12.24%	48.99%		
2012 CDM Programs		6.26%	6.25%	6.25%	18.76%		
2013 CDM Programs			10.10%	10.08%	20.18%		
2014 CDM Programs				12.07%	12.07%		
Total in Year	12.28%	18.50%	28.59%	40.64%	100.00%		
kWh							
2011 CDM Programs	3,748,324.00	3,735,006.00	3,735,006.00	3,735,006.00	14,953,342.00		
2012 CDM Programs		1,912,190.00	1,907,334.00	1,907,334.00	5,726,858.00		
2013 CDM Programs			3,083,912.00	3,076,172.00	6,160,084.00		
2014 CDM Programs				3,685,901.00	3,685,901.00		
Total in Year	3,748,324.00	5,647,196.00	8,726,252.00	12,404,413.00	30,526,185.00		

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2015-2020 CDM Program - 2016, second year of the current CDM plan

For the first year of the new 2015-2020 CDM plan, it is assumed that each year's program will achieve an equal amount of new CDM savings. The new targets for 2015-2020 do not take into account persistence beyond the first year, but the IESO will encourage distributors to promote and implement CDM plans that will have longer term persistence of savings. This results in each year's program being about 1/6 (18.67%) of the cumulative 2015-2020 CDM target for kWh savings. A distributor may propose an alternative approach but would be expected to document in its application why it believes that its proposal is more reasonable. In its proposal, the distributor should ensure that the sum of the results for each year's CDM program from 2015 to 2020 add up to its 2015-2020 CDM target as established by the IESO.

6 Year (2015-2020) kWh Target:							
45,360,000							
	2015	2016	2017	2018	2019	2020	Total
%							
2015 CDM Programs	16.67%						16.67%
2016 CDM Programs		16.67%					16.67%
2017 CDM Programs			16.67%				16.67%
2018 CDM Programs				16.67%			16.67%
2019 CDM Programs					16.67%		16.67%
2020 CDM Programs						16.67%	16.67%
Total in Year	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%	100.00%
kWh							
2015 CDM Programs	7,560,000.00						7,560,000.00
2016 CDM Programs		7,560,000.00					7,560,000.00
2017 CDM Programs			7,560,000.00				7,560,000.00
2018 CDM Programs				7,560,000.00			7,560,000.00
2019 CDM Programs					7,560,000.00		7,560,000.00
2020 CDM Programs						7,560,000.00	7,560,000.00
Total in Year	7,560,000.00	7,560,000.00	7,560,000.00	7,560,000.00	7,560,000.00	7,560,000.00	45,360,000.00

Determination of 2016 Load Forecast Adjustment

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 Service rates (EB-2012-0113). This approach has also been used in Settlement Agreements accepted by the Board in other 2013 and 2-14 applications. The distributor should select whether the adjustment is done on a "net" or "gross" basis, but must support a proposal for the adjustment being done on a "gross" basis. Sheet 2-1 defaults to the adjustment being done on a "net" basis consistent with Board policy and practice.

From each of the 2006-2010 CDM Final Report, and the 2011, 2012, 2013 and 2014 CDM Final Reports, issued by the OPA (now IESO) for the distributor, the distributor should input the "gross" and "net" results of the cumulative CDM savings for 2014 into cells D84 to E88. The model will calculate the cumulative savings for all programs from 2006 to 2012 and determine the "net" to "gross" factor "g".

Net-to-Gross Conversion				
Is CDM adjustment being done on a "net" or "gross" basis?				net
	"Gross" kWh	"Net" kWh	Difference kWh	Conversion Factor ('g')
Persistence of Historical CDM programs to 2014				
2006-2010 CDM programs	11,802,651	8,146,041	3,656,610	
2011 CDM program	9,695,248	3,735,006	5,960,242	
2012 CDM program	2,215,506	1,907,334	308,172	
2013 CDM program	4,740,310	3,076,723	1,663,587	
2014 CDM program				
2006 to 2014 OPA CDM programs: Persistence to				
2016	28,453,715	16,865,104	11,588,611	0.00%

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 the assumption that impacts of previous year CDM programs are already implicitly reflected in the actual data for the historical years that are the basis for the load forecast prior to any manual CDM adjustment for the 2016 test year.

Weight Factor for Inclusion in CDM Adjustment to 2014 Load Forecast						
	2011	2012	2013	2014	2015	2016
Weight Factor for each year's CDM program impact on 2014 load forecast	0	0	1	1	1	1
Default Value selection rationale.	Full year persistence of 2011 CDM programs on 2015 load forecast. Full impact assumed because of 50% impact in 2011 (first year) but full year persistence impact on 2012 and 2013, and thus reflected in base forecast before the CDM adjustment.	Full year persistence of 2012 CDM programs on 2015 load forecast. Full impact assumed because of 50% impact in 2012 (first year) but full year persistence impact on 2013, and thus reflected in base forecast before the CDM adjustment.	Default is 0, but one option is for full year impact of persistence of 2013 CDM programs on 2015 load forecast, but 50% impact in base forecast (first year) impact of 2013 CDM programs on 2013 load forecast, which is part of the data for the load forecast.	Default is 0, but one option is for full year impact of persistence of 2014 CDM programs on 2014 load forecast, but 50% impact in base forecast (first year) impact of 2014 CDM programs on 2014 actuals, which is part of the data for the load forecast.	Full year impact of persistence of 2015 programs on 2015 load forecast. 2015 CDM program impacts are not in the base forecast.	Only 50% of 2016 CDM programs are assumed to impact the 2016 load forecast based on the "half-year" rule.

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

2011-2014 and 2015-2020 LRAMVA and 2015 CDM adjustment to Load Forecast

One manual adjustment for CDM impacts to the 2015 load forecast is made. However, the distributor will have two associated annualized CDM impacts, one for the 2011-2014 CDM program and the second for the 2015-2020 CDM plan. In addition, the distributor needs to reflect the CDM adjustment that was explicitly factored into its 2011 load forecast in its 2011 cost of service application (assuming that it rebased in that year). This amount, and equal persistence for 2012, 2013 and 2014 is used as an offset to determine what the net balance of the 2011-2014 LRAMVA balance should be for disposition.

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 2014, for assessing performance against the four-year target. The base amount for 2011-2013 is 0 (zero) for 2014 Cost of Service applications, as the utility rebased prior to the 2011-2014 CDM programs, and there was no adjustment to reflect the impacts of the 2011-2014 programs on the load forecast used to determine their last cost of service-based rates.

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

The Manual Adjustment for the 2016 Load Forecast is the amount manually subtracted from the load forecast derived from the base forecast from historical data.

If the distributor has developed their load forecast on a system purchased basis, then the manual adjustment should be on system purchased basis, including the adjustment for losses. If the load forecast has been developed on a billed basis, either on a system basis or on a class-specific basis, the manual adjustment should be on a billed basis, excluding losses.

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

	2011	2012	2013	2014	2015	2016	Total for 2016
Amount used for CDM threshold for LRAMVA (2014)	3,735,006.00	1,907,334.00	3,076,172.00	3,685,901.00			12,404,413.00
forecast (per Board Decision in distributor's most recent Cost of Service Application) (enter as negative)	3,350,000.00	3,350,000.00	3,350,000.00	3,350,000.00			13,400,000.00
Amount used for CDM threshold for LRAMVA (2016)				-	7,560,000.00	7,560,000.00	15,120,000.00
Manual Adjustment for 2016 Load Forecast (billed basis)	-	-	3,076,172.00	3,685,901.00	7,560,000.00	7,560,000.00	21,882,073.00
Proposed Loss Factor (TLF)	3.25%	Format: X.XX%					
Manual Adjustment for 2016 Load Forecast (system purchased basis)	-	-	3,176,147.59	3,805,692.78	7,805,700.00	7,805,700.00	22,593,240.37

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 2016 load forecast.

Analysis Results

As noted in Table 3-10 there is very little difference between the 2015 Bridge Year and 2016 Test Year forecasts using a ten year HDD and CDD average and a twenty year HDD and CDD average. Remaining consistent with its 2011 forecast, Milton Hydro has performed the regression analysis for its 2015 Bridge Year and 2016 Test Year based on the average of ten years of HDD and CDD.

Table 3-10
HDD & CDD – 10 Year and 20 Year Forecasts

Customer Class		2015 Bridge Year		2016 Test Year	
		10 Year HDD & CDD	20 Year HDD & CDD	10 Year HDD & CDD	20 Year HDD & CDD
Residential	kWh	303,419,115	302,791,665	309,752,959	309,022,929
General Service <50 kW	kWh	90,435,059	90,365,929	92,617,956	92,554,581
General Service >50 kW	kWh	203,458,769	203,316,095	205,048,876	204,889,270

The following Table 3-11 provides the HDD and CDD used to determine the ten year average used in the regression analysis for determining the 2015 Bridge Year and the 2016 Test Year. The HDD and CDD are derived from the Government of Canada's Climate Daily Data Reports for each month as read at the Toronto International Airport. This average was developed by Milton Hydro from the climate data.

Table 3-11
HDD & CDD Ten Year Average

HDD	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2015 - 10 Year Avge.
Jan	770.0	551.8	647.1	623.5	830.2	720.0	775.3	611.1	624.4	825.9	792.4	700.17
Feb	616.4	604.3	740.1	674.7	606.4	598.3	654.2	531.7	631.5	737.1	856.8	663.51
Mar	608.6	516.6	546.7	610.2	533.8	422.8	572.8	349.4	554.8	690.6	615.5	541.32
Apr	306.8	293.3	356.4	253.9	305.8	225.1	332.3	321.7	358.6	356.9	313.7	311.77
May	189.4	136.9	136.4	193.5	158.8	107.9	134.1	80.7	109.1	132.1	89.3	127.88
Jun	8.9	19.5	16.5	22.7	49.3	21.7	19.0	23.2	33.0	14.1		22.79
Jul	0.0	0.0	3.2	1.0	6.2	1.8	0.0	0	1.3	4.0		1.75
Aug	0.2	4.2	5.2	12.7	9.8	2.1	0.0	2	4.4	8.8		4.94
Sep	22.6	80.9	36.9	59.0	55.2	78.2	48.2	85	83.0	69.7		61.87
Oct	220.2	288.3	137.7	278.6	287.8	241.6	235.5	242.5	208.5	224.3		236.5
Nov	388.4	382.2	462.5	451.6	361.2	405.3	341.9	434.0	478.2	482.1		418.74
Dec	665.3	500.5	630.7	654.6	631.3	676.2	534.0	533.5	687.9	557.3		607.13
CDD	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2015 - 10 Year Avge.
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Mar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.02
Apr	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0	0.0	0.0	0.0	0.12
May	0.8	26.0	22.4	2.5	6.9	45.7	13.0	36.7	23.1	11.9	34.1	22.23
Jun	146.3	73.6	99.2	71.5	34.2	58.7	52.2	101.6	50.8	68.1		75.62
Jul	188.7	167.3	106.1	111.0	43.7	164.9	198.5	195.4	120.8	71.0		136.74
Aug	140.7	101.6	141.0	64.0	91.0	138.8	122.2	112.1	93.8	81.8		108.7
Sep	52.1	12.9	47.5	26.7	20.9	31.5	39.7	35.6	28.1	30.1		32.51
Oct	7.6	1.1	19.8	0.0	0.0	0.0	2.4	1.1	0.4	1.3		3.37
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0

Milton Hydro updated the regression model with the variables identified above for each of the weather sensitive customer classes beginning with June 2015. The results by customer class are provided below.

Residential Customer Class

Milton Hydro has provided the results from the Residential customer class regression analysis in the following Table 3-12. The regression statistics for the Multiple R, R-Square and Adjusted R-Square are 0.96, 0.93 and 0.928 respectively indicating a strong relationship between the actual monthly load and the chosen variables. The Adjusted R-Squared is less than but very close to

the R-Square which indicates that the number of variables (six in this model) used as predictors provides sound results as there is little variance for the Adjusted R-Squared to increase in value as it will always be lower than the R-Square. This indicates that over specifying the model by making it too complex will probably reduce the precision of the predicted values. The statistics for the variables used provides a strong correlation for all variables as each variable has a *t-Stat* greater than the absolute value of 2 which means that they are all statistically significant to the load forecast. In particular, weather and the seasons are dependent variables in forecasting Residential load.

Table 3-12
Regression Analysis Results – Residential Customer Class

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.964584019							
R Square	0.93042233							
Adjusted R Square	0.927907474							
Standard Error	1378010.43							
Observations	173							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	6	4.21525E+15	7.02542E+14	369.9704846	2.60497E-93			
Residual	166	3.1522E+14	1.89891E+12					
Total	172	4.53047E+15						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-11780275.52	3969670.745	-2.967569926	0.003445507	-19617825.78	-3942725.265	-19617825.78	-3942725.265
Heating Degree Days	6434.336853	685.8162692	9.382012562	4.80013E-17	5080.290177	7788.383529	5080.290177	7788.383529
Cooling Degree Days	44140.57664	4083.514087	10.80945864	5.89013E-21	36078.2589	52202.89439	36078.2589	52202.89439
Number of Days in Month	492345.7627	131430.5873	3.746051606	0.000247505	232854.7623	751836.7631	232854.7623	751836.7631
Spring Fall Flag	-2069250.289	293813.6731	-7.042729727	4.76618E-11	-2649343.596	-1489156.983	-2649343.596	-1489156.983
Blackout Flag	-3390129.701	1402860.031	-2.416584425	0.016750846	-6159877.294	-620382.1078	-6159877.294	-620382.1078
Number of Customers	601.3740619	14.57309456	41.2660509	3.45747E-89	572.6015595	630.1465643	572.6015595	630.1465643

General Service <50 kW Customer Class

Milton Hydro has provided the results from the General Service <50 kW customer class regression analysis in the following Table 3-13. The regression statistics for the Multiple R, R-Square and Adjusted R-Square are 0.94, 0.886 and 0.882 respectively indicating a strong relationship between the actual monthly load and the chosen variables. The Adjusted R-Squared is less than but very close to the R-Square which indicates that the number of variables (six in this model) used as predictors provides sound results as there is little variance for the Adjusted R-Squared to increase in value as it will always be lower than the R-Square.

This indicates that over specifying the model by making it too complex will probably reduce the precision of the predicted values. The statistics for the variables used provides a strong correlation for each variable as the *t-Stat* greater than the absolute value of 2 except for the number of days in the month and the blackout flag. These two variables are unintuitive and not statistically significant to the load forecast. The remaining variables have a strong correlation to the regression analysis and load forecast.

Table 3-13
Regression Analysis Results – General Service <50 kW Customer Class

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.94154624							
R Square	0.886509322							
Adjusted R Square	0.88240725							
Standard Error	360347.6027							
Observations	173							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	6	1.68374E+14	2.80623E+13	216.1125337	1.02578E-75			
Residual	166	2.15552E+13	1.2985E+11					
Total	172	1.89929E+14						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-3161976.562	1053595.767	-3.001128763	0.003105097	-5242151.545	-1081801.579	-5242151.545	-1081801.579
Heating Degree Days	2080.303541	179.3277139	11.60056913	3.64497E-23	1726.246477	2434.360606	1726.246477	2434.360606
Cooling Degree Days	6427.709103	1067.478694	6.021393345	1.07721E-08	4320.124256	8535.29395	4320.124256	8535.29395
Number of Days in Month	67464.07444	34365.83779	1.963114499	0.051303775	-386.3842022	135314.5331	-386.3842022	135314.5331
Spring Fall Flag	-232253.1844	76826.79629	-3.023075223	0.002899513	-383936.7661	-80569.60264	-383936.7661	-80569.60264
Blackout Flag	-176247.5771	367148.4569	-0.480044445	0.631827729	-901129.9835	548634.8293	-901129.9835	548634.8293
Number of Customers	3078.677631	97.32013702	31.6345386	3.4208E-72	2886.532863	3270.822399	2886.532863	3270.822399

General Service 50 – 999 kW Customer Class

Milton Hydro has provided the results from the General Service 50 – 999 kW customer class regression analysis in the following Table 3-14. The regression statistics for the Multiple R, R-Square and Adjusted R-Square are 0.91, 0.834 and 0.828 respectively indicating a strong relationship between the actual monthly load and the chosen variables. The Adjusted R-Squared is less than but very close to the R-Square which indicates that the number of variables (seven in this model) used as predictors provides sound results as there is little variance for the Adjusted R-Squared to increase in value as it will always be lower than the R-Square. This indicates that over specifying the model by making it too complex will probably reduce the precision of the predicted values. The statistics for the variables used provides a

strong correlation for each variable as the *t-Stat* greater than the absolute value of 2 except for the spring fall flag and the blackout flag. These two variables are unintuitive and not statistically significant to the load forecast. The remaining variables have a strong correlation to the regression analysis and load forecast.

Table 3-14
Regression Analysis Results – General Service >50 kW Customer Class

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.913552201							
R Square	0.834577624							
Adjusted R Square	0.827559705							
Standard Error	758395.3644							
Observations	173							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	7	4.78793E+14	6.8399E+13	118.9209546	4.29128E-61			
Residual	165	9.4902E+13	5.75164E+11					
Total	172	5.73695E+14						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-8009831	2265361.715	-3.535784571	0.000527867	-12482664.54	-3536997.46	-12482664.54	-3536997.46
Heating Degree Days	1973.647413	377.8488548	5.223378045	5.23859E-07	1227.605392	2719.689433	1227.605392	2719.689433
Cooling Degree Days	10614.70338	2249.23301	4.719254666	5.02262E-06	6173.715089	15055.69166	6173.715089	15055.69166
Number of Days in Month	161865.0816	78257.43731	2.068366755	0.040165796	7350.02651	316380.1367	7350.02651	316380.1367
Spring Fall Flag	-151262.272	162026.651	-0.933564146	0.351892908	-471175.085	168650.541	-471175.085	168650.541
Number of Peak Hours	9837.80505	3859.349367	2.549083826	0.011712186	2217.729557	17457.88054	2217.729557	17457.88054
Blackout Flag	-1346978.171	776941.8839	-1.733692312	0.084840635	-2881007.678	187051.3364	-2881007.678	187051.3364
Number of Customers	54623.58992	1986.988122	27.49064744	1.72245E-63	50700.38991	58546.78994	50700.38991	58546.78994

Non-Weather Sensitive Customer Classes

Milton Hydro determined in its 2011 COS application that the General Service 1000 – 4999 kW, Large Users, Street Lights, Sentinel Lights and the Unmetered/Scattered Load customer classes are not weather sensitive. In calculating the load forecast for each customer class for the 2015 Bridge Year and the 2016 Test Year Milton Hydro has not provided for an increase in the number of customers or connections for the General Service 1000 – 4999 kW, Large Users, Sentinel Lights and the Unmetered/Scattered Load customer classes as Milton Hydro no indication of prospective new growth in these two classes. Milton Hydro's Sentinel Light class is in fact declining in the number of connections however Milton Hydro does not anticipate a significant change in the number of connections. New Unmetered Load customers have been metered for a number of years now therefore there is no growth provided for this class.

1 The Street Light customer class will experience growth as the Town of Milton grows with the
2 new subdivisions. Milton Hydro has used the geomean average for to account for the growth in
3 this class.

4 As mentioned above, the calculation of the kW demand is based on a ratio of historic kW to
5 historic kWh and averaged to forecast the kW demand for the 2015 Bridge Year and the 2016
6 Test Year except for the Large User customer class. Milton Hydro had one customer move
7 from the General Service 1000 – 4999 kW class into the Large User customer class in 2013
8 adding additional demand to this class. Therefore Milton Hydro based the kW calculation on the
9 average of the 2013 and 2014 actual kW.

10 In each applicable customer class, Milton Hydro has adjusted the forecasted kWh for the impact
11 of CDM as discussed above by making a manual adjustment to the annual kWhs for those
12 classes.

13 Table 3-14a provides a summary of the load forecast on a billing determinant basis by rate
14 class. This table is also consistent with Appendix 2-1A which provides a variance analysis
15 between each year and the last Board approved values.

16 Milton Hydro has attached a copy of its load forecast regression model at Attachment 3-1.

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Table 3-14a

Summary & Variances of Actual & Forecast Data – Appendix 2-IA

	2011 Board Approved	2012	2013	2014	2015 Bridge	2016 Test
Residential						
# of Customers	27,832	29,614	31,309	32,268	33,268	34,768
kWh	260,408,065	281,220,955	287,291,134	290,591,983	303,419,115	309,752,959
kW						
Variance Analysis						
# of Customers		6.40%	12.49%	15.94%	19.53%	24.92%
kWh		7.99%	10.32%	11.59%	16.52%	18.95%
kW		0.00%	0.00%	0.00%	0.00%	0.00%
GS <50 kW						
# of Customers	2,315	2,425	2,477	2,544	2,611	2,680
kWh	75,603,703	84,168,273	87,021,883	88,384,427	90,435,059	92,617,956
kW						
Variance Analysis						
# of Customers		4.76%	7.01%	9.90%	12.81%	15.79%
kWh		11.33%	15.10%	16.90%	19.62%	22.50%
kW		0.00%	0.00%	0.00%	0.00%	0.00%
General Service > 50 to 999 kW						
# of Customers	299	271	273	284	293	302
kWh	188,689,653	194,206,573	203,179,611	204,067,396	203,733,680	205,340,394
kW	511,697	520,812	541,770	537,016	547,100	551,414
Variance Analysis						
# of Customers		-9.36%	-8.69%	-5.02%	-2.12%	0.86%
kWh		2.92%	7.68%	8.15%	7.97%	8.82%
kW		1.78%	5.88%	4.95%	6.92%	7.76%
General Service > 1000 to 4999 kW						
# of Customers	13	12	11	12	12	12
kWh	112,523,353	128,979,851	100,652,663	110,411,189	110,264,909	109,869,211
kW	230,486	287,183	232,734	242,504	232,512	231,678
Variance Analysis						
# of Customers		-7.69%	-15.38%	-7.69%	-7.69%	-7.69%
kWh		14.62%	-10.55%	-1.88%	-2.01%	-2.36%
kW		24.60%	0.98%	5.21%	0.88%	0.52%
Large User > 4999 kW						
# of Customers	2	2	3	3	3	3
kWh	85,702,235	86,554,626	127,931,415	133,427,900	133,319,331	133,210,761
kW	188,668	179,954	246,682	253,601	255,233	255,025
Variance Analysis						
# of Customers		0.00%	50.00%	50.00%	50.00%	50.00%
kWh		0.99%	49.27%	55.69%	55.56%	55.43%
kW		-4.62%	30.75%	34.42%	35.28%	35.17%

Streetlights						
# of Connections	2,895	2,991	3,046	3,097	3,165	3,234
kWh	6,320,787	6,834,941	7,077,825	7,239,934	6,973,701	5,632,779
kW	17,810	19,000	19,748	20,173	19,572	15,809
Variance Analysis						
# of Connections		3.31%	5.21%	6.97%	9.31%	11.69%
kWh		8.13%	11.98%	14.54%	10.33%	-10.88%
kW		6.68%	10.88%	13.27%	9.90%	-11.23%
Sentinel Lights						
# of Connections	270	265	256	251	247	242
kWh	167,188	155,804	153,124	151,003	148,333	145,711
kW	465	413	425	419	411	404
Variance Analysis						
# of Connections		-1.89%	-5.23%	-7.08%	-8.72%	-10.33%
kWh		-6.81%	-8.41%	-9.68%	-11.28%	-12.85%
kW		-11.29%	-8.57%	-9.84%	-11.63%	-13.19%
Unmetered Loads						
# of Connections	208	192	192	189	204	226
kWh	1,519,815	1,328,091	1,336,647	1,339,771	1,238,376	1,096,423
kW						
Variance Analysis						
# of Connections		-7.62%	-7.62%	-9.06%	-1.84%	8.74%
kWh		-12.61%	-12.05%	-11.85%	-18.52%	-27.86%
kW		0.00%	0.00%	0.00%	0.00%	0.00%

ACCURACY OF LOAD FORECAST AND VARIANCE ANALYSIS

Variance Analysis of Distribution Revenue and Billing Determinants

The following discussion provides a year over year variance analysis on Milton Hydro's distribution revenue and billing determinants. The variance analysis will compare 2011 Actual to 2011 Board Approved; 2012 Actual to 2011 Actual; 2013 Actual to 2012 Actual; 2014 Actual to 2013 Actual; 2015 Bridge Year to 2014 Actual and 2016 Test Year to 2015 Bridge Year. The distribution revenue variance analysis is based on information provided in Table 3-15. The billing determinant variance analysis is based on data outlined in Table 3-2. The overall variance analysis has been provided based on Milton Hydro's materiality of \$90,000 noted earlier in EXHIBIT 1 of this Application.

This Exhibit provides the details of Milton Hydro's total operating revenue for 2011 Board-Approved, 2012 Actual, 2013 Actual, 2014 Actual, the 2015 Bridge Year, and the 2016 Test Year. This Exhibit also provides a detailed variance analysis by rate class of the operating revenue components. Each variance that is above the materiality threshold is highlighted and a summary for this variance is provided below in Table 3-15.

Operating Revenue:

Table 3-15

Summary of Operating Revenue & Variances

Description	2011 OEB Approved	2011 Actual	Variance 2011 Actual over 2011 Approved	2012 Actual	Variance 2012 Actual over 2011 Actual	2013 Actual	Variance 2013 Actual over 2012 Actual	2014 Actual	Variance 2014 Actual over 2013 Actual	2015 Bridge Year	Variance 2015 Bridge over 2014 Actual	2016 Test Year	Variance 2016 Test over 2015 Bridge
Distribution Revenues													
Residential	8,408,648	8,333,241	(75,407)	8,771,436	438,194	9,471,141	699,705	9,892,531	421,391	10,462,721	570,190	11,780,108	1,317,387
GS < 50 kW	1,700,610	1,790,780	90,170	1,875,938	85,158	1,951,409	75,470	2,035,643	84,234	2,039,830	4,187	2,182,114	142,284
GS >50 to 999 kW	1,483,511	1,372,975	(110,536)	1,473,965	100,990	1,525,725	51,760	1,569,042	43,317	1,622,836	53,794	2,050,581	427,745
GS >1000 to 4999 kW	695,085	752,362	57,277	794,873	42,511	685,067	(109,807)	674,194	(10,873)	705,631	31,437	395,338	(310,293)
Large Use	543,950	467,000	(76,950)	515,443	48,444	611,690	96,247	684,767	73,076	708,590	23,823	469,596	(238,994)
Sentinel Lights	9,386	6,918	(2,468)	12,911	5,993	14,529	1,618	14,408	(121)	15,410	1,002	32,876	17,466
Street Lighting	119,370	90,126	(29,244)	193,697	103,570	228,415	34,719	263,662	35,246	251,500	(12,162)	253,593	2,093
Unmetered and Scattered	44,620	42,041	(2,579)	37,900	(4,141)	38,914	1,015	39,815	901	39,815	(0)	43,161	3,346
Total Distribution Revenue	13,005,180	12,855,444	(149,736)	13,676,163	820,719	14,526,890	850,727	15,174,062	647,172	15,846,333	672,271	17,207,367	1,361,034
Other Revenue													
Specific Service Charges	403,492	520,106	116,614	490,084	(30,022)	651,385	161,301	640,410	(10,975)	625,319	(15,091)	677,992	52,673
Late Payment Charges	156,670	161,220	4,550	170,412	9,192	197,390	26,978	174,673	(22,717)	182,084	7,411	191,188	9,104
Other Operating Revenues	172,082	181,462	9,380	176,956	(4,506)	174,630	(2,326)	172,011	(2,619)	178,087	6,076	292,287	114,200
Other Income	727,155	754,018	26,863	618,711	(135,307)	688,342	69,631	738,925	50,583	716,934	(21,991)	740,688	23,754
Total Other Revenue	1,459,399	1,616,806	157,407	1,456,163	(160,643)	1,711,747	255,584	1,726,019	14,272	1,702,424	(23,595)	1,902,155	199,731
Total Operating Revenue	14,464,579	14,472,250	7,671	15,132,326	660,076	16,238,637	1,106,311	16,900,081	661,444	17,548,757	648,676	19,109,522	1,560,765
% Distribution Revenue	89.9%	88.8%		90.4%		89.5%		89.8%		90.3%		90.0%	
% Other Revenue	10.1%	11.2%		9.6%		10.5%		10.2%		9.7%		10.0%	

Variance Analysis

Distribution Revenue - 2011 Actual vs 2011 Board Approved

Distribution Revenues	2011 Approved	2011 Actual	2011 Actual over 2011 Approved
Residential	8,408,648	8,333,241	(75,407)
GS < 50 kW	1,700,610	1,790,780	90,170
GS >50 to 999 kW	1,483,511	1,372,975	(110,536)
GS >1000 to 4999 kW	695,085	752,362	57,277
Large Use	543,950	467,000	(76,950)
Sentinel Lights	9,386	6,918	(2,468)
Street Lighting	119,370	90,126	(29,244)
Unmetered and Scattered	44,620	42,041	(2,579)
Total Distribution Revenue	13,005,180	12,855,444	(149,736)

Billing Determinants - 2011 Actual vs 2011 Board Approved

Billing Determinants	Customer/Connections			kWh		kW		Volumetric Difference	Volumetric % Difference
	2011 Approved	2011 Actual	Difference	2011 Approved	2011 Actual	2011 Approved	2011 Actual		
Residential	27,832	27,826	- 6	260,408,065	268,725,505			8,317,440	3.2%
GS < 50 kW	2,315	2,374	59	75,603,703	83,338,834			7,735,131	10.2%
GS >50 to 999 kW	299	271	- 28			511,697	503,231	- 8,466	-1.7%
GS >1000 to 4999 kW	13	12	- 1			230,486	260,972	30,486	13.2%
Large Use	2	2	-			188,668	175,385	- 13,283	-7.0%
Sentinel Lights	270	265	- 5			465	439	- 26	-5.6%
Street Lighting	2,895	2,900	5			17,810	17,894	84	0.5%
Unmetered and Scattered	195	187	- 8	1,519,815	1,298,941			- 220,874	-14.5%
Total	33,821	33,837	16	337,531,583	353,363,280	949,126	957,921	15,840,492	

There are two significant drivers of the variance between 2011 OEB Approved distribution revenue and 2011 Actual; volumetric and customer/connection count variances and the assumption of a full year of revenue at the OEB Approved rates set in the 2011 COS.

The GS < 50 kW class variance increase of \$90,170 was primarily a result of volumetric rate differences from four months of revenue at 2010 variable rates offset by a higher customer count (59) and increased volumetric usage, up 10.2%.

Distribution revenue for the GS > 50 to 999 kW class was down by (\$110,536) primarily as a result of kW demand being down 1.7% compared to the 2011 OEB Approved kW, customer count down from the 2011 OEB-Approved by 28 and the impact of 2010 variable rates for four months.

All remaining Distribution Revenue variances are below materiality.

2012 Actual vs 2011 Actual

Distribution Revenue - 2012 Actual vs 2011 Actual

Distribution Revenues	2011 Actual	2012 Actual	2012 Actual over 2011 Actual
Residential	8,333,241	8,771,436	438,194
GS < 50 kW	1,790,780	1,875,938	85,158
GS >50 to 999 kW	1,372,975	1,473,965	100,990
GS >1000 to 4999 kW	752,362	794,873	42,511
Large Use	467,000	515,443	48,444
Sentinel Lights	6,918	12,911	5,993
Street Lighting	90,126	193,697	103,570
Unmetered and Scattered	42,041	37,900	(4,141)
Total Distribution Revenue	12,855,444	13,676,163	820,719

Billing Determinants - 2012 Actual vs 2011 Actual

Billing Determinants	Customer/Connections			kWh		kW		Volumetric Difference	Volumetric % Difference
	2011 Actual	2012 Actual	Difference	2011 Actual	2012 Actual	2011 Actual	2012 Actual		
Residential	27,826	29,614	1,788	268,725,505	281,220,955			12,495,450	4.6%
GS < 50 kW	2,374	2,425	51	83,338,834	84,168,273			829,439	1.0%
GS >50 to 999 kW	271	271	-			503,231	512,720	9,489	1.9%
GS >1000 to 4999 kW	12	12	-			260,972	287,183	26,211	10.0%
Large Use	2	2	-			175,385	179,954	4,569	2.6%
Sentinel Lights	265	265	-			439	413	-26	-5.9%
Street Lighting	2,900	2,991	91			17,894	19,000	1,106	6.2%
Unmetered and Scattered	187	192	5	1,298,941	1,328,091			29,150	2.2%
Total	33,837	35,772	1,935	353,363,280	366,717,319	957,921	999,270	13,395,388	

The Residential class 2012 distribution revenue was higher than 2011 due to the increased volumetric kWh's up 4.6% and the increase in customer count year over year. This was then offset by both the PILS rate rider, to dispose of USoA 1562, and the LRAM rate rider added in May 2012 which reduced Distribution Revenue for this class by a net amount of (\$240,481).

GS 50 - 999 kW distribution revenue increased as a result of increased variable rates compared to those in effect in the 2011 Actuals, a slight increase in demand of 1.9% and an increase in customer count.

The Street Light class Distribution revenue increased due to the adjustment to the Cost Allocation Revenue for the Revenue to Cost Ratio in the 2011 Approved COS Application.

All remaining Distribution Revenue variances are below materiality.

2013 Actual vs 2012 Actual

Distribution Revenue - 2013 Actual vs 2012 Actual

Distribution Revenues	2012 Actual	2013 Actual	2013 Actual over 2012 Actual
Residential	8,771,436	9,471,141	699,705
GS < 50 kW	1,875,938	1,951,409	75,470
GS >50 to 999 kW	1,473,965	1,525,725	51,760
GS >1000 to 4999 kW	794,873	685,067	(109,807)
Large Use	515,443	611,690	96,247
Sentinel Lights	12,911	14,529	1,618
Street Lighting	193,697	228,415	34,719
Unmetered and Scattered	37,900	38,914	1,015
Total Distribution Revenue	13,676,163	14,526,890	850,727

Billing Determinants - 2013 Actual vs 2012 Actual

Billing Determinants	Customer/Connections			kWh		kW		Volumetric Difference	Volumetric % Difference
	2012 Actual	2013 Actual	Difference	2012 Actual	2013 Actual	2012 Actual	2013 Actual		
Residential	29,614	31,309	1,695	281,220,955	287,291,134			6,070,179	2.2%
GS < 50 kW	2,425	2,477	52	84,168,273	87,021,883			2,853,610	3.4%
GS >50 to 999 kW	271	273	2			512,720	541,770	29,050	5.7%
GS >1000 to 4999 kW	12	11	- 1			287,183	254,467	- 32,716	-11.4%
Large Use	2	3	1			179,954	224,949	44,995	25.0%
Sentinel Lights	265	256	- 9			413	425	12	2.9%
Street Lighting	2,991	3,046	55			19,000	18,201	- 799	-4.2%
Unmetered and Scattered	192	192	-	1,328,091	1,336,647			8,556	0.6%
Total	35,772	37,567	1,795	366,717,319	375,649,664	999,270	1,039,812	8,972,887	

The Residential class 2013 distribution revenue was higher than 2012 by \$699,705 due to the increased volumetric kWh's up 2.26% and the increase in customer count year over year. This was then offset by the PILS/LRAM rate riders added in May 2012 and ended in April 30, 2013 which reduced Distribution Revenue for this class by (\$164,140).

GS>1000 to 4999 kW distribution revenue decreased by (\$109,807) as a result of one customer moving to Large Use Class in 2013 resulting in demand decreasing by 11.4%.

Large Use customer count went up by the one customer that was moved into this class increasing demand by 25% and distribution revenue for this class by 96,247

All remaining Distribution Revenue variances are below materiality.

2014 Actual vs 2013 Actual

Distribution Revenue - 2014 Actual vs 2013 Actual

Distribution Revenues	2013 Actual	2014 Actual	2014 Actual over 2013 Actual
Residential	9,471,141	9,892,531	421,391
GS < 50 kW	1,951,409	2,035,643	84,234
GS >50 to 999 kW	1,525,725	1,569,042	43,317
GS >1000 to 4999 kW	685,067	674,194	(10,873)
Large Use	611,690	684,767	73,076
Sentinel Lights	14,529	14,408	(121)
Street Lighting	228,415	263,662	35,246
Unmetered and Scattered	38,914	39,815	901
Total Distribution Revenue	14,526,890	15,174,062	647,172

Billing Determinants - 2014 Actual vs 2013 Actual

Billing Determinants	Customer/Connections			kWh		kW		Volumetric Difference	Volumetric % Difference
	2013 Actual	2014 Actual	Difference	2013 Actual	2014 Actual	2013 Actual	2014 Actual		
Residential	31,309	32,268	959	287,291,134	290,591,983			3,300,849	1.1%
GS < 50 kW	2,477	2,544	67	87,021,883	88,384,427			1,362,544	1.6%
GS >50 to 999 kW	273	284	11			541,770	523,668	-18,102	-3.3%
GS >1000 to 4999 kW	11	12	1			254,467	242,504	-11,964	-4.7%
Large Use	3	3	-			224,949	253,601	28,652	12.7%
Sentinel Lights	256	251	-5			425	419	-6	-1.4%
Street Lighting	3,046	3,097	51			18,201	20,173	1,972	10.8%
Unmetered and Scattered	192	189	-3	1,336,647	1,339,771			3,124	0.2%
Total	37,567	38,648	1,081	375,649,664	380,316,180	1,039,812	1,040,365	4,667,069	

The Residential class 2014 distribution revenue was higher than 2013 by \$421,391 due to the increased volumetric kWh's up 1.1% and the increase in customer count year over year.

All remaining Distribution Revenue variances are below materiality.

2015 Bridge Year vs 2014 Actual

Distribution Revenue - 2015 Bridge Year vs 2014 Actual

Distribution Revenues	2014 Actual	2015 Bridge Year	2015 Bridge Year over 2014 Actual
Residential	9,892,531	10,462,721	570,190
GS < 50 kW	2,035,643	2,039,830	4,187
GS >50 to 999 kW	1,569,042	1,622,836	53,794
GS >1000 to 4999 kW	674,194	705,631	31,437
Large Use	684,767	708,590	23,823
Sentinel Lights	14,408	15,410	1,002
Street Lighting	263,662	251,500	(12,162)
Unmetered and Scattered	39,815	39,815	(0)
Total Distribution Revenue	15,174,062	15,846,333	672,271

Billing Determinants - 2015 Bridge Year vs 2014 Actual

Billing Determinants	Customer/Connections			kWh		kW		Volumetric Difference	Volumetric % Difference
	2014 Actual	2015 Bridge Year	Difference	2014 Actual	2015 Bridge Year	2014 Actual	2015 Bridge Year		
Residential	32,268	33,268	1,000	290,591,983	303,102,545			12,510,562	4.3%
GS < 50 kW	2,544	2,611	67	88,384,427	90,339,292			1,954,865	2.2%
GS >50 to 999 kW	284	293	9			523,668	545,983	22,315	4.3%
GS >1000 to 4999 kW	12	12	-			242,504	232,444	10,059	-4.1%
Large Use	3	3	-			253,601	252,394	1,207	-0.5%
Sentinel Lights	251	247	4			419	411	8	-1.9%
Street Lighting	3,097	3,165	68			20,173	21,754	1,581	7.8%
Unmetered and Scattered	189	204	15	1,339,771	1,238,376			101,395	-7.6%
Total	38,648	39,803	1,155	380,316,180	394,680,212	1,040,365	1,052,987	14,376,654	

The Residential class 2015 distribution revenue was higher than 2014 by \$570,190 due to the increased volumetric kWh's up 4.31% and the increase in customer count year over year.

All remaining Distribution Revenue variances are below materiality.

2016 Test Year vs 2015 Bridge Year

Distribution Revenue - 2016 Test Year vs 2015 Bridge Year

Distribution Revenues	2015 Bridge Year	2016 Test Year	2015 Bridge Year over 2016 Test Year
Residential	10,462,721	11,780,108	1,317,387
GS < 50 kW	2,039,830	2,182,114	142,284
GS >50 to 999 kW	1,622,836	2,050,581	427,745
GS >1000 to 4999 kW	705,631	395,338	(310,293)
Large Use	708,590	469,596	(238,994)
Sentinel Lights	15,410	32,876	17,466
Street Lighting	251,500	253,593	2,093
Unmetered and Scattered	39,815	43,161	3,346
Total Distribution Revenue	15,846,333	17,207,367	1,361,034

Billing Determinants - 2016 Test Year vs 2015 Bridge Year

Billing Determinants	Customer/Connections			kWh		kW		Volumetric Difference	Volumetric % Difference
	2015 Bridge Year	2016 Test Year	Difference	2015 Bridge Year	2016 Test Year	2015 Bridge Year	2016 Test Year		
Residential	33,268	34,768	1,500	303,419,115	309,752,959			6,333,844	2.1%
GS < 50 kW	2,611	2,680	69	90,435,059	92,617,956			2,182,897	2.4%
GS >50 to 999 kW	293	302	9			547,100	551,414	4,315	0.8%
GS >1000 to 4999 kW	12	12	-			232,512	231,678	-834	-0.4%
Large Use	3	3	-			255,233	255,025	-208	-0.1%
Sentinel Lights	247	242	-5			411	404	-7	-1.8%
Street Lighting	3,165	3,234	69			19,572	15,809	-3,763	-19.2%
Unmetered and Scattered	204	226	22	1,238,376	1,096,423			141,953	-11.5%
Total	39,803	41,467	1,664	395,092,550	403,467,338	1,054,829	1,054,330	8,374,289	

The proposed Test Year distribution revenue is a reflection of the 2016 COS application and the proposed base revenue requirement of \$17,207,367. The variance in distribution revenue over the 2015 Bridge Year in the amount of \$1,361,034, is a result of the proposed increases to fixed and variable distribution revenue and customer growth in the 2016 Test Year..

All remaining Distribution Revenue variances are below materiality.

OTHER REVENUE

Variance Analysis of Other Revenue:

Table 3-16 below provides details on the other revenue included in Milton Hydro's operating revenue which is consistent with the other revenue data provided in Table 3-1 above. The revenues or costs (including interest) associated with deferral accounts, variance accounts and regulatory assets are included in account USoA 4405. Proposed other revenue for the 2015 Bridge Year and the 2016 Test Year has been calculated based on historical experience taking into consideration the 2015 Bridge Year and 2016 Test Year forecasts. Milton Hydro has provided its Other Operating Revenue and Account Summary breakdown (Appendix 2-H) in the following Table 3-16.

Table 3-16
Other Operating Revenue – Appendix 2-H

USoA #	USoA Description	Last Rebasin Year	2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
		2011 Approved	2011	2012	2013	2013	2014	2015	2016
	Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
4235	Specific Service Charges	\$ 403,492	\$ 520,106	\$ 490,084	\$ 651,385	\$ 651,385	\$ 640,410	\$ 625,319	\$ 677,992
4225	Late Payment Charges	\$ 156,670	\$ 161,220	\$ 170,412	\$ 197,390	\$ 197,390	\$ 174,673	\$ 182,084	\$ 191,188
4082/4084	Retail Services Revenues	\$ 36,869	\$ 31,276	\$ 26,548	\$ 23,215	\$ 23,215	\$ 21,892	\$ 23,121	\$ 24,277
4210	Rent from Electric Property	\$ 135,213	\$ 150,186	\$ 150,408	\$ 151,415	\$ 151,415	\$ 150,119	\$ 154,966	\$ 156,515
4215	Other Operating Income	\$ 75,804							\$ 111,495
4355	Disposal of Fixed Assets	\$ 6,250	\$ 1,593	\$ 2,012	\$ 25,000	\$ 25,000	\$ 1,200	\$ -	
4390	Misc. Non-Operating Income	\$ 600,101	\$ 598,637	\$ 539,016	\$ 554,153	\$ 554,153	\$ 613,864	\$ 613,901	\$ 652,655
4375	Revenues from Non Utility Operations	\$ -	\$ 527,378	\$ 443,399	\$ 320,525	\$ 320,525	\$ 920,721	\$ -	\$ -
4380	Expenses from Non Utility Operations	\$ -	\$ 412,129	\$ 429,875	\$ 300,681	\$ 300,681	\$ 920,721	\$ -	\$ -
4405	Interest and Dividend Income	\$ 45,000	\$ 38,539	\$ 64,159	\$ 89,345	\$ 89,345	\$ 123,861	\$ 103,033	\$ 88,033
	Specific Service Charges	\$ 403,492	\$ 520,106	\$ 490,084	\$ 651,385	\$ 651,385	\$ 640,410	\$ 625,319	\$ 677,992
	Late Payment Charges	\$ 156,670	\$ 161,220	\$ 170,412	\$ 197,390	\$ 197,390	\$ 174,673	\$ 182,084	\$ 191,188
	Other Operating Revenues	\$ 247,886	\$ 181,462	\$ 176,956	\$ 174,630	\$ 174,630	\$ 172,011	\$ 178,087	\$ 292,287
	Other Income or Deductions	\$ 651,351	\$ 754,018	\$ 618,711	\$ 688,342	\$ 688,342	\$ 738,925	\$ 716,934	\$ 740,688
	Total	\$ 1,459,399	\$ 1,616,806	\$ 1,456,163	\$ 1,711,747	\$ 1,711,747	\$ 1,726,019	\$ 1,702,424	\$ 1,902,155
Account 4082/4084 - Revenue from Services - Distribution									
			2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
			2011	2012	2013	2013	2014	2015	2016
	Reporting Basis		CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
	Retailer - LDC Consolidated Billing		\$ 10,299	\$ 8,477	\$ 7,228	\$ 7,228	\$ 6,715	\$ 7,098	\$ 7,453
	Retailer - Monthly Fixed Charge		\$ 3,120	\$ 3,300	\$ 3,300	\$ 3,300	\$ 3,400	\$ 3,556	\$ 3,734
	Retailer - Monthly Variable Charge		\$ 17,178	\$ 14,165	\$ 12,098	\$ 12,098	\$ 11,255	\$ 11,895	\$ 12,490
	Retailer - STR Request Fee		\$ 244	\$ 219	\$ 220	\$ 220	\$ 188	\$ 204	\$ 214
	Retailer - STR Processing Fee		\$ 435	\$ 387	\$ 369	\$ 369	\$ 335	\$ 368	\$ 386
	Total		\$ 31,276	\$ 26,548	\$ 23,215	\$ 23,215	\$ 21,893	\$ 23,121	\$ 24,277
Account 4210 - Rent from Electric Property									
			2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
			2011	2012	2013	2013	2014	2015	2016
	Reporting Basis		CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
	Pole Rental - Bell/Rogers/Cogeco/Blink		\$ 150,186	\$ 150,408	\$ 151,415	\$ 151,415	\$ 150,119	\$ 154,966	\$ 156,515
	Total		\$ 150,186	\$ 150,408	\$ 151,415	\$ 151,415	\$ 150,119	\$ 154,966	\$ 156,515

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Account 4215 - Other Operating Income

	2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
	2011	2012	2013	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
SSS Administration Income							\$ 111,495
(for 2011-2015 SSS included in a/c 4080)							
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 111,495

Account 4225 - Late Payment Charges

	2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
	2011	2012	2013	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
Customer late payment charges	\$ 161,220	\$ 170,412	\$ 197,390	\$ 197,390	\$ 174,673	\$ 182,084	\$ 191,188
Total	\$ 161,220	\$ 170,412	\$ 197,390	\$ 197,390	\$ 174,673	\$ 182,084	\$ 191,188

Account 4235 - Miscellaneous Service Revenues from Non-Utility Operations

	2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
	2011	2012	2013	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
Collection Charges	\$ 285,319	\$ 222,267	\$ 315,446	\$ 315,446	\$ 355,770	\$ 348,744	\$ 363,995
Reconnection Charges	\$ 6,425	\$ 6,472	\$ 12,385	\$ 12,385	\$ 17,310	\$ 17,875	\$ 18,525
Occupancy Charges	\$ 198,510	\$ 232,110	\$ 256,470	\$ 256,470	\$ 197,070	\$ 195,450	\$ 232,223
Lawyer's Certificates	\$ 872	\$ 705	\$ 544	\$ 544	\$ 750	\$ 750	\$ 750
Off Cycle Meter Reads	\$ 1,740	\$ 1,170	\$ 2,100	\$ 2,100	\$ 2,730	\$ 2,500	\$ 2,500
Interval Meter Reads	\$ 27,240	\$ 27,360	\$ 64,440	\$ 64,440	\$ 66,780	\$ 60,000	\$ 60,000
Total	\$ 520,106	\$ 490,084	\$ 651,385	\$ 651,385	\$ 640,410	\$ 625,319	\$ 677,993

Account 4335 - Gain on Disposition of Utility or Other Property

	2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
	2011	2012	2013	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
Truck #8							
Truck # 30							
Trailer							
Miscellaneous					\$ 1,200	\$ -	\$ -
Truck # 29	\$ 1,151						
Mail Machine	\$ 442						
Truck # 33		\$ 2,012					
Truck # 26			\$ 25,000	\$ 25,000			
Total	\$ 1,593	\$ 2,012	\$ 25,000	\$ 25,000	\$ 1,200	\$ -	\$ -

Account 4375/4380 - Revenue/Expenses from Non-Rate Regulated Activities

	2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
	2011	2012	2013	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
OPA Programs - Revenue	\$ 527,378	\$ 443,399	\$ 320,525	\$ 320,525	\$ 920,721	\$ -	\$ -
OPA Programs - Expenses	\$ 412,129	\$ 429,875	\$ 300,681	\$ 300,681	\$ 920,721	\$ -	\$ -
Total	\$ 115,249	\$ 13,524	\$ 19,844	\$ 19,844	\$ -	\$ -	\$ -

Account 4390 - Miscellaneous Non Operating Income

	2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
	2011	2012	2013	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
Region Water & Sewage Fees	\$ 517,574	\$ 477,035	\$ 519,884	\$ 519,884	\$ 552,475	\$ 588,075	\$ 626,579
Sale of Scrap Metal	\$ 69,174	\$ 51,148	\$ 24,659	\$ 24,659	\$ 48,466	\$ 15,000	\$ 15,000
Statement of Account	\$ 90				\$ 45	\$ -	\$ -
NSF Charges	\$ 5,730	\$ 5,250	\$ 4,200	\$ 4,200	\$ 4,680	\$ 4,998	\$ 5,248
Miscellaneous	\$ 6,069	\$ 5,583	\$ 5,410	\$ 5,410	\$ 8,198	\$ 5,828	\$ 5,828
Total	\$ 598,637	\$ 539,016	\$ 554,153	\$ 554,153	\$ 613,864	\$ 613,901	\$ 652,655

Account 4405 - Interest and Dividend Income

	2011 Actual	2012 Actual	2013 Actual ²	Actual Year ²	Actual Year ²	Bridge Year ²	Test Year
	2011	2012	2013	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS
Interest Income	\$ 51,168	\$ 61,538	\$ 54,256	\$ 54,256	\$ 79,639	\$ 78,033	\$ 78,033
Interest Earned on deferral & variance acct	\$ 12,629	\$ 2,621	\$ 35,089	\$ 35,089	\$ 44,219	\$ 25,000	\$ 10,000
Total	\$ 38,539	\$ 64,159	\$ 89,345	\$ 89,345	\$ 123,858	\$ 103,033	\$ 88,033

Milton Hydro has provided a variance analysis in Table 3-17 below. An explanation for each variance above materiality is provided following the table.

Table 3-17
Other Revenue with Variances

		2011 Approved	2011 Actual	2011 Actual vs 2011 Approved	2012 Actual	2012 Actual vs 2011 Actual	2013 Actual	2013 Actual vs 2012 Actual	2014 Actual	2014 Actual vs 2013 Actual	2015 Bridge Year	2015 Bridge Year vs 2014 Actual	2016 Test Year	2016 Test Year vs 2015 Bridge Year
USoA	Other Revenue													
4082/4084	Retail Services Revenue	36,869	31,276	- 5,593	26,548	- 4,728	23,215	- 3,333	21,892	- 1,323	23,121	1,229	24,277	1,156
4210	Rent from Electric Property	135,213	150,186	14,973	150,408	222	151,415	1,007	150,119	- 1,296	154,966	4,847	156,515	1,550
4215	SSS Administrations	75,804	-	- 75,804									111,495	111,495
4225	Late Payment Charges	156,670	161,220	4,550	170,412	9,192	197,390	26,978	174,673	- 22,717	182,084	7,411	191,188	9,104
4235	Specific Service Charges	403,492	520,106	116,614	490,084	- 30,022	651,385	161,301	640,410	- 10,975	625,319	- 15,091	677,992	52,673
4355	Gain on Disposal of Property	6,250	1,593	- 4,657	2,012	419	25,000	22,988	1,200	- 23,800	-	- 1,200	-	-
4375	Revenues from Non-Utility Operations		527,378	527,378	443,399	- 83,979	320,525	- 122,874	920,721	600,196	-	- 920,721	-	-
4380	Expenses of Non-Utility Operations		- 412,129	- 412,129	- 429,875	- 17,746	- 300,681	- 129,194	- 920,721	- 620,040		920,721		-
4385	Non-Utility Rental Income			-		-		-		-		-		-
4390	Miscellaneous Non-Operating Income	600,101	598,637	- 1,464	539,016	- 59,621	554,153	15,137	613,864	59,711	613,901	37	652,655	38,754
4405	Interest & Dividend Income	45,000	38,539	- 6,461	64,159	25,620	89,345	25,186	123,861	34,516	103,033	- 20,828	88,033	- 15,000
	Total	1,459,399	1,616,806	157,407	1,456,163	- 160,643	1,711,747	255,584	1,726,019	14,272	1,702,423	- 23,596	1,902,155	199,732

2011 Actual vs 2011 Board Approved

Other Revenues and Variances				
		2011 Approved	2011 Actual	2011 Actual vs 2011 Approved
USoA	Other Revenue			
4082/4084	Retail Services Revenue	36,869	31,276	- 5,593
4210	Rent from Electric Property - Poles	135,213	150,186	14,973
4215	SSS Administrations	75,804		- 75,804
4225	Late Payment Charges	156,670	161,220	4,550
4235	Specific Service Charges	403,492	520,106	116,614
4355	Gain on Disposal of Property	6,250	1,593	- 4,657
4375	Revenues from Non-Utility Operations		527,378	527,378
4380	Expenses of Non-Utility Operations		- 412,129	- 412,129
4390	Miscellaneous Non-Operating Income	600,101	598,637	- 1,464
4405	Interest & Dividend Income	45,000	38,539	- 6,461
	Total	1,459,399	1,616,806	157,407

Specific Service Charges increased by \$116,614 between the 2011 OEB Approved and 2011 Actual including Collection Charges which increased by \$70,992 (30%) due to Milton Hydro's focus on delinquent accounts. Implementing consistent collection activities compliant with OEB

approved policies has also reduced the overall bad debt expense as outlined in EXHIBIT 4. Disconnect/Reconnect fees have decreased by \$5,806 and Occupancy Charges increased by \$32,776 (20%) due to growth in the Town of Milton. All other miscellaneous Specific Service Charges are immaterial amounts.

Revenue from Non-Utility Operations of \$527,378 and the offsetting Expenses for Non-Utility Operations of \$412,129 for a net increase of \$115,249 in Other Revenue. This represents Revenues from the OPA performance funding in place related to 2010 ERIP Programs.

All remaining Revenue variances are below materiality.

2012 Actual vs 2011 Actual

Other Revenues and Variances				
		2011 Actual	2012 Actual	2012 Actual vs 2011 Actual
USoA	Other Revenue			
4082/4084	Retail Services Revenue	31,276	26,548	- 4,728
4210	Rent from Electric Property - Poles	150,186	150,408	222
4215	SSS Administrations			-
4225	Late Payment Charges	161,220	170,412	9,192
4235	Specific Service Charges	520,106	490,084	- 30,022
4355	Gain on Disposal of Property	1,593	2,012	419
4375	Revenues from Non-Utility Operations	527,378	443,399	- 83,979
4380	Expenses of Non-Utility Operations	- 412,129	- 429,875	- 17,746
4390	Miscellaneous Non-Operating Income	598,637	539,016	- 59,621
4405	Interest & Dividend Income	38,539	64,159	25,620
	Total	1,616,806	1,456,163	- 160,643

Other Revenues overall decreased year over year by (\$160,643).

All Revenue variances are below materiality.

2013 Actual vs 2012 Actual

Other Revenues and Variances				
		2012 Actual	2013 Actual	2013 Actual vs 2012 Actual
USoA	Other Revenue			
4082/4084	Retail Services Revenue	26,548	23,215	- 3,333
4210	Rent from Electric Property - Poles	150,408	151,415	1,007
4215	SSS Administrations			-
4225	Late Payment Charges	170,412	197,390	26,978
4235	Specific Service Charges	490,084	651,385	161,301
4355	Gain on Disposal of Property	2,012	25,000	22,988
4375	Revenues from Non-Utility Operations	443,399	320,525	- 122,874
4380	Expenses of Non-Utility Operations	- 429,875	- 300,681	129,194
4390	Miscellaneous Non-Operating Income	539,016	554,153	15,137
4405	Interest & Dividend Income	64,159	89,345	25,186
	Total	1,456,163	1,711,747	255,584

Specific Service Charges have increased by \$161,301 between the 2013 Actual and 2012 Actual. Collection charges have increased by \$93,179; Occupancy Charges increased by \$24,360; Interval Meter Reads increased by \$ 37,080 and Disconnect/Reconnect fees increased \$5,913.

The revenue from Non-Utility Operations has decreased by \$122,874 and the offsetting Expenses for Non-Utility Operations has decreased by \$129,194 for a net increase of \$6,320 in Other Revenue. Revenues and expenses from Non-Utility Operations are from OPA sanctioned programs.

All remaining Revenue variances are below materiality.

2014 Actual vs 2013 Actual

Other Revenues and Variances				
		2013 Actual	2014 Actual	2014 Actual vs 2013 Actual
USoA	Other Revenue			
4082/4084	Retail Services Revenue	23,215	21,892	- 1,323
4210	Rent from Electric Property - Poles	151,415	150,119	- 1,296
4215	SSS Administrations			-
4225	Late Payment Charges	197,390	174,673	- 22,717
4235	Specific Service Charges	651,385	640,410	- 10,975
4355	Gain on Disposal of Property	25,000	1,200	- 23,800
4375	Revenues from Non-Utility Operations	320,525	920,721	600,196
4380	Expenses of Non-Utility Operations	- 300,681	- 920,721	- 620,040
4390	Miscellaneous Non-Operating Income	554,153	613,864	59,711
4405	Interest & Dividend Income	89,345	123,861	34,516
	Total	1,711,747	1,726,019	14,272

The revenue from Non-Utility Operations has increased by \$600,196 and the offsetting Expenses for Non-Utility Operations has increased by \$620,040 for a net decrease of \$19,844. Revenues and expenses from Non-Utility Operations are from OPA sanctioned programs.

All remaining Revenue variances are below materiality.

2015 Bridge Year vs 2014 Actual

Other Revenues and Variances				
		2014 Actual	2015 Bridge Year	2015 Bridge Year vs 2014 Actual
USoA	Other Revenue			
4082/4084	Retail Services Revenue	21,892	23,121	1,229
4210	Rent from Electric Property - Poles	150,119	154,966	4,847
4215	SSS Administrations			-
4225	Late Payment Charges	174,673	182,084	7,411
4235	Specific Service Charges	640,410	625,319	- 15,091
4355	Gain on Disposal of Property	1,200	-	- 1,200
4375	Revenues from Non-Utility Operations	920,721	-	- 920,721
4380	Expenses of Non-Utility Operations	- 920,721		920,721
4390	Miscellaneous Non-Operating Income	613,864	613,901	37
4405	Interest & Dividend Income	123,861	103,033	- 20,828
	Total	1,726,019	1,702,423	- 23,596

The revenue and expenses from Non-Utility Operations are offsetting for a net increase/decrease of \$0. Revenues and expenses from Non-Utility Operations are from OPA sanctioned programs.

All remaining Revenue variances are below materiality.

2016 Test Year vs 2015 Bridge Year

Other Revenues and Variances				
		2015 Bridge Year	2016 Test Year	2016 Test Year vs 2015 Bridge Year
USoA	Other Revenue			
4082/4084	Retail Services Revenue	23,121	24,277	1,156
4210	Rent from Electric Property - Poles	154,966	156,515	1,550
4215	SSS Administrations		111,495	111,495
4225	Late Payment Charges	182,084	191,188	9,104
4235	Specific Service Charges	625,319	677,992	52,673
4390	Miscellaneous Non-Operating Income	613,901	652,655	38,754
4405	Interest & Dividend Income	103,033	88,033	- 15,000
	Total	1,702,423	1,902,155	199,732

SSS Administration Charges have been included in the 2016 Test Year as a revenue offset in the amount of \$111,495 which represents an average number of customers at a rate of \$.25. SSS Administration Charges for the 2011 to 2015 Bridge Year are included in USoA 4080 Distribution Revenue.

All remaining Revenue variances are below materiality

Proposed Specific Services Charges

Milton Hydro is not requesting approval of any new proposed specific service charges or changes to rates or new rules for applying existing specific services charges.

ATTACHMENT 3-1
LOAD FORECAST MODEL

Milton Hydro Weather Normal Customer Class Load Forecast for 2016 Rate Application

										2010 Bridge Year Weather Normal	2010 Actual	2011 Test Year Weather Normal	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Bridge Year Weather Normal	2016 Test Year Weather Normal
Description	2001 Actual	2002 Actual	2003 Actual	2004 Actual	2005 Actual	2006 Actual	2007 Actual	2008 Actual	2009 Actual									
Billed kWh	525,513,862	564,764,319	585,995,585	589,630,611	636,787,690	636,829,104	672,730,918	685,172,482	673,060,306	706,080,870	725,606,710	730,934,799	754,466,670	783,449,114	814,644,302	836,470,876	849,532,503	857,666,193
By Class																		
Residential																		
Customers	9,693	12,314	13,821	15,760	17,611	18,720	20,305	22,755	24,832	26,332	26,587	27,832	27,826	29,614	31,309	32,268	33,268	34,768
kWh	134,047,710	150,212,623	158,175,327	169,087,408	192,683,717	195,292,370	211,418,658	218,391,097	230,401,041	249,747,033	258,659,735	260,408,065	268,725,507	281,220,955	287,291,134	290,591,983	303,419,115	309,752,959
General Service < 50 kW																		
Customers	1,700	1,713	1,760	1,803	1,990	1,998	2,048	2,136	2,203	2,258	2,283	2,315	2,374	2,425	2,477	2,544	2,611	2,680
kWh	59,298,833	60,711,850	61,255,640	61,650,512	65,492,217	64,355,939	68,462,631	71,310,393	73,618,223	73,958,013	79,867,181	75,603,703	83,338,834	84,168,273	87,021,883	88,384,427	90,435,059	92,617,956
General Service 50 to 999 kW																		
Customers	192	218	212	229	244	245	273	274	275	287	257	299	271	271	273	284	293	302
kWh	145,138,639	147,962,301	148,063,380	155,978,135	164,259,880	165,309,885	172,334,963	180,947,735	184,558,255	183,863,313	192,607,268	188,689,653	192,782,770	194,206,573	203,179,611	204,924,670	203,733,680	205,340,394
kW	413,565	415,618	409,870	420,450	441,283	436,353	456,775	475,950	494,157	498,609	502,595	511,697	503,231	520,812.31	541,769.58	537,016	547,100	551,414
General Service 1000 to 4999 kW																		
Customers	10	10	10	10	11	13	14	14	12	12	13	13	12	12	11	12	12	12
kWh	136,434,027	142,026,097	140,546,077	114,675,485	119,553,703	116,022,864	122,900,958	124,956,584	117,357,757	109,150,253	110,640,753	112,523,353	121,407,487	128,979,851	100,652,663	110,411,189	110,264,909	109,869,211
kW	255,515	286,432	271,068	230,160	247,851	241,018	258,605	266,355	260,952	223,577	243,580	230,486	260,972	287,183	232,734	242,504	232,512	231,678
Large User																		
Customers	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3
kWh	46,895,462	59,872,906	73,457,084	83,457,793	89,641,173	90,399,608	91,791,513	83,253,315	60,254,116	81,945,598	76,336,020	85,702,235	80,336,534	86,554,626	127,931,415	133,427,900	133,319,331	133,210,761
kW	105,657	125,800	164,458	186,557	184,313	187,387	187,646	187,387	154,282	180,398	174,023	188,668	175,385	179,954	246,682.37	253,601	255,233	255,025
Streetlights																		
Connections	2,283	2,348	2,408	2,466	2,529	2,579	2,634	2,709	2,774	2,834	2,795	2,895	2,900	2,991	3,046	3,097	3,165	3,234
kWh	2,910,384	3,070,173	3,488,004	3,650,549	3,961,622	4,232,885	4,566,123	4,960,009	5,438,382	5,863,007	6,055,919	6,320,787	6,418,516	6,834,941	7,077,825	7,239,934	6,973,701	5,632,779
kW	8,091	9,249	9,813	10,170	11,151	11,810	12,738	13,799	15,174	16,520	16,892	17,810	17,894	19,000	19,748	20,173	19,572	15,809
Sentinel Lights																		
Connections	329	301	311	309	298	295	290	288	279	275	266	270	265	265	256	251	247	242
kWh	193,936	193,936	192,008	191,280	184,461	180,812	178,317	176,576	172,687	169,915	158,811	167,188	158,082	155,804	153,124	151,003	148,333	145,711
kW	535	539	533	531	512	507	498	495	479	473	441	465	439	413	425	419	411	404
Unmetered Loads																		
Connections	110	114	122	137	139	142	169	176	183	195	184	208	187	192	192	189	204	226
kWh	594,871	714,434	818,065	939,449	1,010,917	1,034,741	1,077,755	1,176,774	1,259,845	1,383,738	1,281,024	1,519,815	1,298,941	1,328,091	1,336,647	1,339,771	1,238,376	1,096,423
Total of Above																		
Customer/Connections	14,318	17,020	18,646	20,716	22,824	23,994	25,735	28,354	30,560	32,194	32,387	33,834	33,837	35,772	37,567	38,648	39,802	41,467
kWh	525,513,862	564,764,319	585,995,585	589,630,611	636,787,690	636,829,104	672,730,918	685,172,482	673,060,306	706,080,870	725,606,710	730,934,799	754,466,670	783,449,114	814,644,302	836,470,876	849,532,503	857,666,193
kW from applicable classes	783,363	837,638	855,742	847,868	885,111	877,076	916,261	943,985	925,045	919,576	937,531	949,126	957,921	1,007,362	1,041,359	1,053,713	1,054,829	1,054,330
Total from Model																		
Customer/Connections	14,318	17,020	18,646	20,716	22,824	23,994	25,735	28,354	30,560	32,194	32,387	33,834	33,837	35,772	37,567	38,648	39,802	41,467
kWh	525,513,862	564,764,319	585,995,585	589,630,611	636,787,690	636,829,104	672,730,918	685,172,482	673,060,306	706,080,870	725,606,710	730,934,799	754,466,670	783,449,114	814,644,302	836,470,876	849,532,503	857,666,193
kW from applicable classes	783,363	837,638	855,742	847,868	885,111	877,076	916,261	943,985	925,045	919,576	937,531	949,126	957,921	1,007,362	1,041,359	1,053,713	1,054,829	1,054,330
Average metered customers																		
Average customers/connections		12,927	15,031	16,805	18,831	20,418	21,810	23,911	26,252	28,108	28,233	29,676	29,814	31,405	33,199	34,592	35,649	36,976
Check should all be zero																		
Customer/Connections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kW from applicable classes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Residential forecast

		Heating	Cooling	Number of	Spring	Blackout	Number of	Predicted	Variances (kWh)	% Variance
		Degree	Degree	Days in						
Used		Days	Days	Month	Fall Flag	Flag	Customers	Consumption		
Jan-01	13 559,985	684.9	0	31	0	0	9.432	13 561,688	1.703	0.01%
Feb-01	11 570,341	587.6	0	28	0	0	9.456	11 472,664	-97.977	-0.84%
Mar-01	11 767,073	566.6	0	31	1	0	9.479	10 759,439	-1,007,633	-8.56%
Apr-01	9 467,932	293.8	1.4	30	1	0	9.503	8 587,747	-880,185	-9.30%
May-01	9 054,899	111.5	12.2	31	1	0	9.526	8 398,011	-656,888	-7.25%
Jun-01	10 533,345	29.8	79.7	30	0	0	9.550	12 442,933	1 909,588	18.13%
Jul-01	12 294,039	9.3	109.2	31	0	0	9.574	13 753,405	1 459,367	11.87%
Aug-01	12 291,090	0	160	31	0	0	9.597	16 316,559	4 025,469	32.75%
Sep-01	9 841,248	73.6	35.7	30	1	0	9.621	8 756,177	-1,085,072	-11.03%
Oct-01	9 870,092	232.5	2	31	1	0	9.645	8 797,757	-1,072,335	-10.86%
Nov-01	10 513,336	325.8	0	30	1	0	9.669	8 831,845	-1,681,490	-15.99%
Dec-01	13 294,361	505	0	31	0	0	9.693	12 560,902	-733,459	-5.45%
Jan-02	13 570,722	572.2	0	31	0	0	10.566	13 518,289	-52,433	-0.39%
Feb-02	11 777,054	540.2	0	28	0	0	10.709	11 921,349	-144,295	-1.23%
Mar-02	12 387,378	545.6	0	31	1	0	10.833	11 438,452	-948,925	-7.66%
Apr-02	10 652,335	329.5	8.3	30	1	0	10.939	9 985,759	-666,576	-6.26%
May-02	10 201,800	227.5	7.8	31	1	0	11.076	9 982,120	-919,680	-9.13%
Jun-02	12 086,655	36.2	70	30	0	0	11.216	13 057,872	971,217	8.04%
Jul-02	15 095,632	0	192.4	31	0	0	11.358	18 905,497	3 709,865	24.58%
Aug-02	14 227,259	0.2	142.7	31	0	0	11.557	16 732,670	2 505,412	17.61%
Sep-02	11 663,149	21.8	87.6	30	1	0	11.737	11 986,157	323,008	2.77%
Oct-02	11 188,550	292.2	10	31	1	0	11.912	10 986,280	-290,270	-2.59%
Nov-02	12 346,959	445	0	30	1	0	12.101	11 061,054	-1,285,904	-10.41%
Dec-02	15 015,230	619.4	0	31	0	0	12.314	14 873,192	-142,038	-0.95%
Jan-03	15 689,034	814.5	0	31	0	0	12.373	16 164,012	474,978	3.03%
Feb-03	14 159,370	699	0	28	0	0	12.490	14 014,169	-145,201	-1.03%
Mar-03	13 797,747	581.1	0	31	1	0	12.596	12 727,094	-1,070,653	-7.78%
Apr-03	11 326,228	372.5	2.4	30	1	0	12.698	11 059,823	-266,407	-2.35%
May-03	10 631,873	177.9	0	31	1	0	12.803	10 257,253	-374,620	-3.52%
Jun-03	12 256,744	43.4	52.9	30	0	0	12.906	13 365,718	1 108,974	9.05%
Jul-03	14 385,857	0.2	118.3	31	0	0.0	13.037	16 545,674	2 159,816	15.01%
Aug-03	13 709,551	2	128	31	0	1.0	13.227	13 709,551	0	0.00%
Sep-03	11 457,418	54.9	24	30	1	0.0	13.430	10 409,920	-1,047,499	-9.14%
Oct-03	11 830,330	276	0	31	1	0.0	13.593	11 363,547	-466,783	-3.95%
Nov-03	13 103,901	398.5	0	30	1	0.0	13.744	11 750,215	-1,353,685	-10.33%
Dec-03	15 827,272	561.5	0	31	0	0.0	13.821	15 406,914	-420,358	-2.66%
Jan-04	17 352,961	849.1	0	31	0	0.0	14.184	17 475,728	123,067	0.71%
Feb-04	14 963,758	631.7	0	29	0	0.0	14.379	15 209,480	245,722	1.64%
Mar-04	14 244,179	487.3	0	31	1	0.0	14.549	13 298,036	-946,143	-6.64%
Apr-04	12 062,988	331.5	0	30	1	0.0	14.661	11 870,575	-192,413	-1.60%
May-04	11 794,688	159.9	8.6	31	1	0.0	14.764	11 093,905	-100,783	-0.85%
Jun-04	12 506,805	44.2	31.6	30	0	0.0	14.902	13 631,014	1 124,209	8.99%
Jul-04	14 457,017	3.6	86.4	31	0	0.0	15.063	16 377,850	1 920,833	13.29%
Aug-04	14 307,418	12.8	59.6	31	0	0.0	15.238	15 359,319	1 051,901	7.35%
Sep-04	13 074,323	30	41.2	30	1	0.0	15.414	12 202,049	-872,274	-6.67%
Oct-04	12 823,427	226.3	1.5	31	1	0.0	15.557	12 291,070	-532,357	-4.15%
Nov-04	13 928,336	379.1	0	30	1	0.0	15.671	12 784,237	-1,144,099	-8.21%
Dec-04	17 571,810	643.4	0	31	0	0.0	15.760	17 099,951	-471,859	-2.69%
Jan-05	18 287,531	770	0	31	0	0.0	15.812	17 945,809	-341,722	-1.87%
Feb-05	15 452,137	616.4	0	28	0	0.0	15.870	15 515,337	-63,200	-0.41%
Mar-05	15 431,773	608.6	0	31	1	0.0	15.832	14 910,222	-521,551	-3.38%
Apr-05	12 663,393	306.8	0	30	1	0.0	15.991	12 511,474	-151,918	-1.20%
May-05	13 044,362	189.4	0.8	31	1	0.0	16.068	12 330,047	-714,315	-5.48%
Jun-05	17 268,265	8.9	146.3	30	0	0.0	16.180	19 235,362	1 967,096	11.39%
Jul-05	20 643,026	0	198.7	31	0	0.0	16.360	21 650,250	1 007,223	4.89%
Aug-05	18 148,307	0.2	140.7	31	0	0.0	16.609	19 682,531	1 534,224	8.45%
Sep-05	14 342,559	22.6	52.1	30	1	0.0	16.896	13 526,803	-815,756	-5.69%
Oct-05	13 743,822	220.2	7.6	31	1	0.0	17.222	13 522,366	-221,456	-1.61%
Nov-05	15 095,859	388.4	0	30	1	0.0	17.464	13 922,340	-1 173,519	-7.77%
Dec-05	18 562,682	665.3	0	31	0	0.0	17.611	18 354,006	-208,676	-1.12%
Jan-06	17 845,800	551.8	0	31	0	0.0	17.672	17 660,393	-185,408	-1.04%
Feb-06	15 977,493	604.3	0	28	0	0.0	17.753	16 569,869	-592,377	-3.71%
Mar-06	16 038,244	516.6	0	31	1	0.0	17.810	15 447,643	-990,600	-3.68%
Apr-06	13 146,425	293.3	0	30	1	0.0	17.875	13 557,599	-411,175	-3.13%
May-06	14 003,693	136.9	26	31	1	0.0	17.932	14 225,548	221,855	1.58%
Jun-06	16 834,933	19.5	73.6	30	0	0.0	17.986	17 180,627	345,694	2.05%
Jul-06	20 824,969	0	167.3	31	0	0.0	18.045	21 718,957	893,987	4.29%
Aug-06	18 242,563	4.2	101.6	31	0	0.0	18.108	18 883,831	641,269	3.52%
Sep-06	13 882,201	80.9	12.9	30	1	0.0	18.231	12 974,449	-907,753	-6.54%
Oct-06	14 701,041	288.3	1.1	31	1	0.0	18.385	14 373,029	-328,012	-2.23%
Nov-06	15 690,213	382.2	0	30	1	0.0	18.536	14 527,120	-1 163,092	-7.41%
Dec-06	18 104,795	500.5	0	31	0	0.0	18.720	17 960,551	-144,243	-0.80%
Jan-07	19 243,244	647.1	0	31	0	0.0	18.763	18 929,684	-313,560	-1.63%
Feb-07	17 989,063	740.1	0	28	0	0.0	18.887	18 125,610	-136,547	-0.76%
Mar-07	17 400,438	546.7	0	31	1	0.0	19.003	16 358,756	-1,041,682	-5.99%
Apr-07	14 750,766	356.4	0	30	1	0.0	19.117	14 710,513	-40,254	-0.27%
May-07	14 934,490	136.4	22.4	31	1	0.0	19.234	14 846,414	-88,076	-0.59%
Jun-07	18 193,673	16.5	99.2	30	0	0.0	19.358	19 116,408	922,735	5.07%
Jul-07	20 228,592	3.2	106.1	31	0	0.0	19.459	19 888,486	-340,106	-1.68%
Aug-07	20 056,608	5.2	141	31	0	0.0	19.595	21 523,648	1 467,040	7.31%
Sep-07	16 398,681	36.9	47.5	30	1	0.0	19.757	15 136,299	-1 262,382	-7.70%
Oct-07	15 325,162	137.7	19.8	31	1	0.0	19.946	15 168,191	-156,971	-1.02%
Nov-07	16 856,253	462.5	0	30	1	0.0	20.128	16 001,185	-855,068	-5.07%
Dec-07	20 041,688	630.7	0	31	0	0.0	20.305	19 751,480	-290,209	-1.45%
Jan-08	20 133,800	623.5	0	31	0	0.0	20.335	19 723,194	-410,606	-2.04%
Feb-08	18 482,170	674.7	0	29	0	0.0	20.403	19 108,834	-626,664	-3.39%
Mar-08	18 009,903	610.2	0	31	1	0.0	20.470	17 649,552	-440,350	-2.43%
Apr-08	14 687,697	253.9	0	30	1	0.0	20.627	14 959,068	271,371	1.85%
May-08	15 027,102	193.5	2.5	31	1	0.0	20.882	15 326,482	299,380	1.99%
Jun-08	17 992,021	22.7	71.5	30	0	0.0	21.141	19 005,857	1 013,836	5.63%
Jul-08	21 095,569	1	111	31	0	0.0	21.416	21 267,508	171,939	0.82%
Aug-08	19 789,684	12.7	64	31	0	0.0	21.698	19 437,771	-351,914	-1.78%
Sep-08	16 686,956	59	26.7	30	1	0.0	21.994	15 705,647	-981,309	-5.88%
Oct-08	16 192,902	278.6	0	31	1	0.0	22.314	16 624,860	431,958	2.67%
Nov-08	18 160,499	451.6	0	30	1	0.0	22.569	17 399,005	-761,494	-4.19%
Dec-08	22 052,794	654.6	0	31	0	0.0	22.755	21 378,627	-674,167	-3.06%
Jan-09	22 632,406	830.2	0	31	0	0.0	22.866	22 575,249	-57,157	-0.25%
Feb-09	19 103,813	606.4	0	28	0	0.0	23.049	19 768,258	-664,445	-3.48%
Mar-09	18 844,585	533.8	0	31	1	0.0	23.271	18 842,418	-2,167	-0.01%
Apr-09	16 233,605	305.8	1.2	30	1	0.0	23.525	17 088,761	-855,156	-5.27%
May-09	15 819,096	158.8	6.9	31	1	0.0	23.761	17 028,785	1 210,689	7.65%
Jun-09	17 492,787	49.3	34.2	30	0	0.0	23.942	19 215,016	1 722,228	9.85%
Jul-09	20 395,611	6.2	43.7	31	0	0.0	24.098	19 943,191	-452,420	-2.22%
Aug-09	22 198,301	9.8	91	31	0	0.0	24.266	22 155,235	-43,066	-0.19%
Sep-09	18 108,209	55.2	20.9	30	1	0.0	24.462	16 909,373	-1 198,836	-6.62%
Oct-09	17 950,626	287.8	0	31	1	0.0	24.642	18 084,055	133,428	0.74%
Nov-09	18 518,465	361.2	0	30	1	0.0	24.736	18 120,518		

Jan-10	20,225,377	720.0	0	31	0	0.0	24,902	23,090,583	2,865,205	14.17%
Feb-10	22,492,953	598.3	0	28	0	0.0	25,038	20,912,273	-1,580,680	-7.03%
Mar-10	18,959,594	422.8	0	31	1	0.0	25,281	19,336,969	377,374	1.99%
Apr-10	16,998,724	225.1	0	30	1	0.0	25,495	17,701,248	702,524	4.13%
May-10	19,019,746	107.9	45.7	31	1	0.0	25,651	19,550,528	530,782	2.79%
Jun-10	23,608,748	21.7	58.7	30	0	0.0	25,832	21,255,469	-2,353,279	-9.97%
Jul-10	30,865,721	1.8	164.9	31	0	0.0	26,900	26,348,394	-4,517,326	-14.64%
Aug-10	25,913,997	2.1	138.8	31	0	0.0	26,023	25,272,224	-641,673	-2.48%
Sep-10	19,331,021	78.2	31.5	30	1	0.0	26,144	18,536,764	-794,257	-4.11%
Oct-10	16,853,785	241.6	0.0	31	1	0.0	26,231	18,742,372	1,888,586	11.21%
Nov-10	19,324,314	405.3	0.0	30	1	0.0	26,423	19,418,791	94,477	0.49%
Dec-10	25,065,855	676.2	0.0	31	0	0.0	26,587	23,822,074	-1,243,781	-4.96%
Jan-11	23,710,157	775.3	0.0	31	0	0.0	26,615	24,476,555	766,398	3.23%
Feb-11	22,287,322	654.2	0.0	28	0	0.0	26,654	22,243,773	-43,549	-0.20%
Mar-11	20,538,303	572.8	0.0	31	1	0.0	26,750	21,185,537	647,234	3.15%
Apr-11	18,173,297	332.3	0.0	30	1	0.0	26,846	19,203,465	1,030,169	5.67%
May-11	19,219,229	134.1	13.0	31	1	0.0	26,969	19,068,322	-150,907	-0.79%
Jun-11	23,432,000	19.0	52.2	30	0	0.0	27,068	21,694,481	-1,737,519	-7.42%
Jul-11	29,858,048	0.0	198.5	31	0	0.0	27,119	28,553,011	-1,305,038	-4.37%
Aug-11	28,097,295	0.0	122.2	31	0	0.0	27,177	25,219,964	-2,877,330	-10.24%
Sep-11	19,896,375	46.2	39.7	30	1	0.0	27,326	19,416,511	-479,864	-2.41%
Oct-11	18,244,566	235.5	2.4	31	1	0.0	27,440	19,536,121	1,291,554	7.08%
Nov-11	20,183,726	341.9	0.0	30	1	0.0	27,703	19,780,612	-403,113	-2.00%
Dec-11	25,085,189	534.0	0.0	31	0	0.0	27,826	23,052,214	-1,432,975	-5.71%
Jan-12	22,695,358	611.1	0.0	31	0	0.0	27,984	24,243,318	1,637,960	7.25%
Feb-12	21,671,478	531.7	0.0	29	0	0.0	28,152	22,848,771	1,177,293	5.43%
Mar-12	19,949,862	349.4	0.2	31	1	0.0	28,320	20,701,092	751,230	3.77%
Apr-12	18,851,855	321.7	0	30	1	0.0	28,570	20,172,030	1,320,175	7.00%
May-12	18,991,152	80.7	36.7	31	1	0.0	28,755	20,844,914	1,853,762	9.76%
Jun-12	27,898,711	23.2	101.6	30	0	0.0	28,856	24,977,306	-2,921,404	-10.47%
Jul-12	33,515,927	0	195.1	31	0	0.0	28,963	29,511,867	-4,004,061	-11.95%
Aug-12	29,969,287	2	112.1	31	0	0.0	29,039	25,906,772	-4,062,515	-13.56%
Sep-12	21,178,062	85	35.6	30	1	0.0	29,133	20,559,001	-619,061	-2.92%
Oct-12	19,579,886	242.5	1.1	31	1	0.0	29,289	20,635,719	1,055,833	5.39%
Nov-12	21,421,957	434.0	0.0	30	1	0.0	29,378	21,380,516	-41,440	-0.19%
Dec-12	25,587,420	533.5	0.0	31	0	0.0	29,614	24,724,253	-863,167	-3.37%
Jan-13	24,654,099	624.4	0.0	31	0	0.0	29,835	25,442,038	787,939	3.20%
Feb-13	23,135,371	631.5	0.0	28	0	0.0	29,989	24,103,296	967,925	4.18%
Mar-13	22,963,589	554.8	0.0	31	1	0.0	30,236	23,166,109	202,520	0.88%
Apr-13	19,590,028	358.8	0.0	30	1	0.0	30,511	21,576,724	1,986,696	10.14%
May-13	20,707,182	109.1	23.1	31	1	0.0	30,723	21,610,842	903,659	4.36%
Jun-13	24,630,972	33.0	50.8	30	0	0.0	30,825	23,982,127	-648,844	-2.63%
Jul-13	30,978,235	1.3	120.8	31	0	0.0	30,936	27,427,097	-3,551,138	-11.46%
Aug-13	28,353,598	4.4	63.8	31	1	0.0	30,985	26,294,716	-2,068,882	-7.30%
Sep-13	20,823,561	83.0	28.1	30	1	0.0	31,028	21,354,682	531,121	2.55%
Oct-13	20,892,191	208.5	0.4	31	1	0.0	31,160	21,511,224	619,033	2.96%
Nov-13	21,740,452	478.2	0.0	30	1	0.0	31,231	22,779,260	1,038,809	4.78%
Dec-13	28,821,859	687.9	0.0	31	0	0.0	31,309	26,737,044	-2,084,815	-7.23%
Jan-14	26,189,486	825.9	0.0	31	0	0.0	31,327	27,635,807	1,446,321	5.52%
Feb-14	26,203,678	737.1	0.0	28	0	0.0	31,341	25,595,820	-607,858	-2.32%
Mar-14	23,971,258	690.6	0.0	31	1	0.0	31,333	24,699,599	728,342	3.04%
Apr-14	21,900,569	356.9	0.0	30	1	0.0	31,349	22,069,737	169,169	0.77%
May-14	20,478,356	132.1	11.9	31	1	0.0	31,435	21,692,635	1,214,279	5.93%
Jun-14	24,401,888	14.1	68.1	30	0	0.0	31,553	25,061,951	660,063	2.70%
Jul-14	28,438,795	4.0	71.0	31	0	0.0	31,756	25,739,396	-2,699,399	-9.49%
Aug-14	26,308,447	8.8	81.8	31	0	0.0	31,837	26,295,710	-12,737	-0.05%
Sep-14	21,592,646	69.7	30.1	30	1	0.0	31,970	21,923,880	331,235	1.53%
Oct-14	21,211,727	224.3	1.3	31	1	0.0	32,106	22,221,513	1,009,786	4.76%
Nov-14	22,391,892	482.1	0.0	30	1	0.0	32,208	23,391,897	1,000,005	4.47%
Dec-14	27,503,241	557.3	0	31	0	0.0	32,268	26,473,437	-1,029,804	-3.74%
Jan-15	26,874,659	792.4	0.0	31	0	0.0	32,346	28,033,057	1,158,398	4.15%
Feb-15	26,416,338	856.8	0.0	28	0	0.0	32,433	27,022,711	-393,627	-1.44%
Mar-15	24,185,917	615.5	0.0	31	1	0.0	32,524	24,933,500	747,583	3.09%
Apr-15	20,379,766	313.7	0.1	30	1	0.0	32,605	22,552,397	2,172,631	9.63%
May-15	16,916,596	89.3	34.1	31	1	0.0	32,646	23,125,430	6,208,834	26.80%
Jun-15		22.8	75.6	30	0	0.0	32,735	26,160,626	3,444,196	12.94%
Jul-15		1.8	136.7	31	0	0.0	32,824	29,268,989	3,108,363	10.64%
Aug-15		4.9	108.7	31	0	0.0	32,913	28,105,334	-1,718,655	-6.11%
Sep-15		61.9	32.5	30	1	0.0	33,002	22,600,496	-3,504,838	-15.52%
Oct-15		236.5	3.4	31	1	0.0	33,091	22,983,736	383,240	1.67%
Nov-15		418.7	0.0	30	1	0.0	33,180	23,568,753	585,017	2.52%
Dec-15		607.1	0.0	31	0	0.0	33,268	27,395,434	4,126,681	15.07%
Jan-16		700.2	0.0	31	0	0.0	33,393	28,069,257	674,823	2.40%
Feb-16		663.5	0.0	29	0	0.0	33,518	26,923,854	-1,595,403	-5.93%
Mar-16		541.3	0.0	31	1	0.0	33,643	25,129,138	-1,714,715	-6.31%
Apr-16		311.9	0.1	30	1	0.0	33,768	23,239,376	-1,929,762	-8.12%
May-16		127.9	22.2	31	1	0.0	33,893	23,599,632	359,256	1.52%
Jun-16		22.8	75.6	30	0	0.0	34,018	26,932,189	3,913,557	14.53%
Jul-16		1.8	136.7	31	0	0.0	34,143	30,062,200	3,129,011	10.38%
Aug-16		4.9	108.7	31	0	0.0	34,268	28,920,196	-1,142,004	-3.94%
Sep-16		61.9	32.5	30	1	0.0	34,393	23,437,008	-3,953,190	-16.84%
Oct-16		236.5	3.4	31	1	0.0	34,518	23,841,897	404,889	1.70%
Nov-16		418.7	0.0	30	1	0.0	34,643	24,448,563	600,666	2.45%
Dec-16		607.1	0.0	31	0	0.0	34,768	28,297,495	3,848,932	15.79%

5995.2

	10 Yr Awt	Weather Normal	3,653,956,712		
2001	134,047,710		134,239,129	191,418	0.1%
2002	150,212,623		154,160,992	3,948,369	2.6%
2003	158,175,327		156,773,890	(1,401,437)	-0.9%
2004	169,087,408		169,293,213	205,805	0.1%
2005	192,683,717		193,106,548	422,831	0.2%
2006	195,292,370		195,079,617	(212,753)	-0.1%
2007	211,418,658		209,556,674	(1,861,984)	-0.9%
2008	218,391,097		217,586,404	(804,692)	-0.4%
2009	230,401,041		232,208,619	1,807,578	0.8%
2010	258,659,735		253,987,688	(4,672,047)	-1.8%
2011	268,725,507		264,030,567	(4,694,940)	-1.7%
2012	281,220,955		276,505,560	(4,715,395)	-1.7%
2013	287,291,134		285,975,160	(1,315,974)	-0.5%
2014	290,591,983		292,801,384	2,209,401	0.8%
2015			305,750,462		
2016			312,900,806		
Total to 2016	3,046,199,262		3,035,305,443	-10,893,819	
			3,653,956,712	0	
			Check totals above should be zero		

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.964584019							
R Square	0.93042233							
Adjusted R Square	0.927907474							
Standard Error	1378010.43							
Observations	173							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	6	4.21525E+15	7.02542E+14	369.9704846	2.60497E-93			
Residual	166	3.1522E+14	1.89891E+12					
Total	172	4.53047E+15						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-11780275.5	3999670.745	-2.967569926	0.003445507	-19617825.78	-3942725.26	-19617825.8	-3942725.26
Heating Degree Days	6434.336853	685.8162692	9.382012562	4.80013E-17	5080.290177	7788.383529	5080.290177	7788.383529
Cooling Degree Days	44140.57664	4083.514087	10.80945864	5.89013E-21	36078.2589	52202.89439	36078.2589	52202.89439
Number of Days in Month	492345.7627	131430.5873	3.746051606	0.000247505	232854.7623	751836.7631	232854.7623	751836.7631
Spring Fall Flag	-2069250.29	293813.6731	-7.042729727	4.76618E-11	-2649343.596	-1489156.98	-2649343.6	-1489156.98
Blackout Flag	-3390129.7	1402860.031	-2.416584425	0.016750846	-6159877.294	-620382.108	-6159877.29	-620382.108
Number of Customers	601.3740619	14.57309456	41.2660509	3.45747E-89	572.6015595	630.1465643	572.6015595	630.1465643

Predicted Consumption Adjusted for 2015 - 2020 CDM Plans	CDM Reduction for 2015 - 2020
27,866,098	166,959
26,890,785	171,926
24,756,607	176,893
22,370,536	181,861
22,938,602	186,828
25,968,831	191,795
29,072,225	196,763
27,903,604	201,730
22,393,799	206,697
22,772,072	211,665
23,352,121	216,632
27,173,835	221,599
27,841,393	227,864
26,689,725	234,129
24,888,745	240,394
22,992,718	246,659
23,346,709	252,923
26,673,001	259,188
29,796,747	265,453
28,648,478	271,718
23,159,025	277,983
23,557,650	284,248
24,158,050	290,512
28,000,718	296,777
	<u>5,479,195</u>

Adjusted for CDM

303,419,115
309,752,959

CDM Related Savings Residential	OPA kWh Net Savings Persistence	OPA kWh Annual Net Savings	50% of Annual Net Savings	OPA kWh Net Savings With First Year	Change Year Over Year	Monthly Increment (Year/78)	Check	
2005	0	0	0	-	-	0	0	Jan
2006	0	0	0	-	-	0	0	Feb
2007	0	0	0	-	-	0	0	Mar
2008	0	0	0	-	-	0	0	Apr
2009	0	0	0	-	-	0	0	May
2010	0	0	0	-	-	0	0	Jun
2011	0	0	0	-	-	0	0	Jul
2012	0	0	0	-	-	0	0	Aug
2013	0	0	0	-	-	0	0	Sep
2014	0	3,887,795	1,943,898	1,943,898	1,943,898	24,922	1,943,898	Oct
2015	1,943,898	774,900	387,450	2,331,348	387,450	4,967	2,331,348	Nov
2016	2,718,798	858,100	429,050	3,147,848	488,658	6,265	3,147,848	Dec
	4,662,695	5,520,795		7,423,093			7,423,093	Total
		10,183,490						

*** 1/2 of 2016 persistence

Jan-05	0		Jan-08	0		Jan-11	0		Jan-14	24,922		
Feb-05	0		Feb-08	0		Feb-11	0		Feb-14	49,844		
Mar-05	0		Mar-08	0		Mar-11	0		Mar-14	74,765		
Apr-05	0		Apr-08	0		Apr-11	0		Apr-14	99,687		
May-05	0		May-08	0		May-11	0		May-14	124,609		
Jun-05	0		Jun-08	0		Jun-11	0		Jun-14	149,531		
Jul-05	0		Jul-08	0		Jul-11	0		Jul-14	174,452		
Aug-05	0		Aug-08	0		Aug-11	0		Aug-14	199,374		
Sep-05	0		Sep-08	0		Sep-11	0		Sep-14	224,296		
Oct-05	0		Oct-08	0		Oct-11	0		Oct-14	249,218		
Nov-05	0		Nov-08	0		Nov-11	0		Nov-14	274,139		
Dec-05	0	0	Dec-08	0	0	Dec-11	0	0	Dec-14	299,061	1,943,898	1,943,898
Jan-06	0		Jan-09	0		Jan-12	0		Jan-15	166,959	calculated as 1/12 of 50% of 2014	
Feb-06	0		Feb-09	0		Feb-12	0		Feb-15	171,926		
Mar-06	0		Mar-09	0		Mar-12	0		Mar-15	176,893		
Apr-06	0		Apr-09	0		Apr-12	0		Apr-15	181,861		
May-06	0		May-09	0		May-12	0		May-15	186,828		
Jun-06	0		Jun-09	0		Jun-12	0		Jun-15	191,795		
Jul-06	0		Jul-09	0		Jul-12	0		Jul-15	196,763		
Aug-06	0		Aug-09	0		Aug-12	0		Aug-15	201,730		
Sep-06	0		Sep-09	0		Sep-12	0		Sep-15	206,697		
Oct-06	0		Oct-09	0		Oct-12	0		Oct-15	211,665		
Nov-06	0		Nov-09	0		Nov-12	0		Nov-15	216,632		
Dec-06	0	0	Dec-09	0	0	Dec-12	0	0	Dec-15	221,599	2,331,348	2,659,190
Jan-07	0		Jan-10	0		Jan-13	0		Jan-16	227,564		
Feb-07	0		Feb-10	0		Feb-13	0		Feb-16	234,129		
Mar-07	0		Mar-10	0		Mar-13	0		Mar-16	240,394		
Apr-07	0		Apr-10	0		Apr-13	0		Apr-16	246,659		
May-07	0		May-10	0		May-13	0		May-16	252,923		
Jun-07	0		Jun-10	0		Jun-13	0		Jun-16	259,188		
Jul-07	0		Jul-10	0		Jul-13	0		Jul-16	265,453		
Aug-07	0		Aug-10	0		Aug-13	0		Aug-16	271,718		
Sep-07	0		Sep-10	0		Sep-13	0		Sep-16	277,983		
Oct-07	0		Oct-10	0		Oct-13	0		Oct-16	284,248		
Nov-07	0		Nov-10	0		Nov-13	0		Nov-16	290,512		
Dec-07	0	0	Dec-10	0	0	Dec-13	0	0	Dec-16	296,777	3,147,848	3,561,327
										5,479,195		

General Service < 50 kW

	Used	Heating Desire Days	Cooling Desire Days	Number of Days in Month	Spring Fall Flag	Blackout Flag	Number of Customers	Predicted Consumption	Variances (kWh)	% Variance
Jan-01	5,521,433	684.9	0	31	0	0	1,709	5,616,176	94,743	1.72%
Feb-01	5,321,433	587.6	0	28	0	0	1,708	5,208,799	-112,634	-2.12%
Mar-01	5,471,433	566.6	0	31	1	0	1,707	5,132,682	-338,751	-6.19%
Apr-01	4,695,572	293.8	1.4	30	1	0	1,707	4,504,141	-191,431	-4.08%
May-01	4,576,930	111.5	12.2	31	1	0	1,706	4,259,217	-317,713	-6.94%
Jun-01	4,665,007	29.8	79.7	30	0	0	1,705	4,685,350	20,343	0.44%
Jul-01	5,115,619	9.3	100.9	31	0	0	1,704	4,843,870	-271,749	-5.31%
Aug-01	5,093,902	0	160	31	0	0	1,703	5,201,837	107,935	2.12%
Sep-01	4,503,908	73.6	35.7	30	1	0	1,702	4,253,704	-250,204	-5.56%
Oct-01	4,524,107	232.5	2	31	1	0	1,702	4,432,553	-91,554	-2.02%
Nov-01	4,659,981	325.8	0	30	1	0	1,701	4,543,766	-116,215	-2.49%
Dec-01	5,149,508	505	0	31	0	0	1,700	5,213,715	64,207	1.25%
Jan-02	5,469,141	572.2	0	31	0	0	1,701	5,356,835	-112,306	-2.05%
Feb-02	4,983,545	540.2	0	28	0	0	1,702	5,091,199	107,653	2.16%
Mar-02	5,315,791	545.6	0	31	1	0	1,703	5,075,999	-239,891	-4.51%
Apr-02	4,758,966	329.5	8.3	30	1	0	1,704	4,615,562	-143,404	-3.01%
May-02	4,528,042	227.5	7.8	31	1	0	1,705	4,470,953	-57,089	-1.26%
Jun-02	4,807,595	36.2	70	30	0	0	1,706	4,640,918	-166,677	-3.47%
Jul-02	5,397,853	0	192.4	31	0	0	1,708	5,423,163	25,310	0.47%
Aug-02	5,252,496	0	142.7	31	0	0	1,709	5,107,460	-155,036	-2.95%
Sep-02	4,744,805	21.8	87.6	30	1	0	1,710	4,501,851	-242,954	-5.12%
Oct-02	4,705,098	292.2	10	31	1	0	1,711	4,636,381	-68,717	-1.46%
Nov-02	5,029,101	445	0	30	1	0	1,712	4,825,855	-203,245	-4.04%
Dec-02	5,709,418	619.4	0	31	0	0	1,713	5,491,725	-217,694	-3.81%
Jan-03	5,976,895	614.5	0	31	0	0	1,717	5,909,501	-67,394	-1.13%
Feb-03	5,598,208	699	0	28	0	0	1,721	5,478,770	-119,438	-2.13%
Mar-03	5,611,630	581.1	0	31	1	0	1,725	5,215,604	-396,026	-7.06%
Apr-03	4,744,479	372.5	2.4	30	1	0	1,729	4,741,605	-2,874	-0.06%
May-03	4,528,529	177.9	0	31	1	0	1,732	4,400,832	-127,696	-2.82%
Jun-03	4,703,098	43.4	52	30	0	0	1,736	4,637,891	-65,207	-1.39%
Jul-03	5,168,773	0.2	118.3	31	0	0.0	1,740	5,047,929	-120,843	-2.34%
Aug-03	4,949,874	2	128	31	0	1.0	1,744	4,949,874	0	0.00%
Sep-03	4,546,584	54.9	24	30	1	0.0	1,748	4,280,096	-266,487	-5.86%
Oct-03	4,697,342	276	0	31	1	0.0	1,752	4,665,404	-31,938	-0.68%
Nov-03	5,070,244	388.5	0	30	1	0.0	1,756	4,864,958	-205,286	-4.05%
Dec-03	5,659,985	561.5	0	31	0	0.0	1,760	5,515,973	-144,012	-2.54%
Jan-04	6,122,581	849.1	0	31	0	0.0	1,764	6,125,178	2,597	0.04%
Feb-04	5,760,953	631.7	0	29	0	0.0	1,767	5,548,925	-212,028	-3.68%
Mar-04	5,515,352	487.3	0	31	1	0.0	1,771	5,162,158	-353,194	-6.40%
Apr-04	4,790,087	331.5	0	30	1	0.0	1,774	4,781,559	-8,528	-0.18%
May-04	4,681,666	158.9	8.6	31	1	0.0	1,778	4,556,239	-125,427	-2.68%
Jun-04	4,630,445	44.2	31.6	30	0	0.0	1,781	4,641,275	10,831	0.23%
Jul-04	4,946,387	3.6	86.4	31	0	0.0	1,785	4,987,560	41,173	0.83%
Aug-04	4,942,648	12.8	59.6	31	0	0.0	1,789	4,845,502	-97,147	-1.97%
Sep-04	4,725,736	30	41.2	30	0	0.0	1,792	4,474,383	-251,353	-5.32%
Oct-04	4,763,751	226.3	1.5	31	1	0.0	1,796	4,706,140	-57,611	-1.21%
Nov-04	5,004,536	379.1	0	30	1	0.0	1,799	4,958,037	-46,499	-0.93%
Dec-04	5,766,371	643.4	0	31	0	0.0	1,803	5,818,733	52,362	0.91%
Jan-05	6,183,057	770	0	31	0	0.0	1,818	6,127,935	-55,122	-0.89%
Feb-05	5,588,169	616.4	0	28	0	0.0	1,833	5,652,223	64,053	1.15%
Mar-05	5,764,326	608.6	0	31	1	0.0	1,848	5,652,732	-111,594	-1.94%
Apr-05	4,898,503	306.8	0	30	1	0.0	1,863	5,004,413	105,910	2.16%
May-05	4,926,310	189.4	0.8	31	1	0.0	1,879	4,880,160	-46,150	-0.94%
Jun-05	5,290,586	8.9	146.3	30	0	0.0	1,894	5,652,446	361,861	6.84%
Jul-05	5,849,225	0	188.7	31	0	0.0	1,910	6,022,085	172,860	2.96%
Aug-05	5,546,695	0.2	140.7	31	0	0.0	1,926	5,762,523	215,828	3.89%
Sep-05	5,040,697	22.6	52.1	30	1	0.0	1,942	4,988,862	-51,835	-1.03%
Oct-05	5,022,879	220.2	7.6	31	1	0.0	1,958	5,230,718	207,839	4.14%
Nov-05	5,348,478	388.4	0	30	1	0.0	1,974	5,514,075	165,597	3.10%
Dec-05	6,033,288	665.3	0	31	0	0.0	1,990	6,440,004	406,716	6.46%
Jan-06	5,948,336	551.8	0	31	0	0.0	1,991	6,205,938	257,603	4.33%
Feb-06	5,516,608	604.3	0	28	0	0.0	1,991	6,114,811	598,204	10.84%
Mar-06	5,663,960	516.6	0	31	1	0.0	1,992	5,904,558	240,598	4.25%
Apr-06	4,828,533	293.3	0	30	1	0.0	1,993	5,374,613	546,080	11.31%
May-06	5,084,316	136.9	26	31	1	0.0	1,993	5,285,889	201,574	3.96%
Jun-06	5,286,635	19.5	73.6	30	0	0.0	1,994	5,514,462	227,827	4.31%
Jul-06	5,671,478	0	167.3	31	0	0.0	1,995	6,145,689	474,211	8.36%
Aug-06	5,446,040	4.2	101.6	31	0	0.0	1,995	5,734,179	288,140	5.29%
Sep-06	4,754,882	80.9	12.9	30	1	0.0	1,996	5,025,938	271,056	5.70%
Oct-06	5,054,665	288.3	1.1	31	1	0.0	1,997	5,451,065	396,399	7.63%
Nov-06	5,303,099	382.2	0	30	1	0.0	1,997	5,573,926	270,827	5.11%
Dec-06	5,787,387	500.5	0	31	0	0.0	1,998	6,121,800	334,412	5.78%
Jan-07	6,199,450	647.1	0	31	0	0.0	2,002	6,439,564	240,114	3.87%
Feb-07	6,183,800	740.1	0	28	0	0.0	2,006	6,443,458	259,658	4.20%
Mar-07	6,121,759	546.7	0	31	1	0.0	2,010	6,024,111	-97,648	-1.60%
Apr-07	5,331,514	356.4	0	30	1	0.0	2,015	5,573,636	242,122	4.54%
May-07	5,257,700	136.4	22.4	31	1	0.0	2,019	5,340,313	82,612	1.57%
Jun-07	5,481,160	16.5	99.2	30	0	0.0	2,023	5,762,246	281,087	5.13%
Jul-07	5,681,534	3.2	106.1	31	0	0.0	2,027	5,859,345	177,812	3.13%
Aug-07	5,675,274	5.2	141	31	0	0.0	2,031	6,100,812	425,538	7.50%
Sep-07	5,210,071	36.9	47.5	30	1	0.0	2,036	5,279,055	68,984	1.32%
Oct-07	5,239,873	137.7	19.8	31	1	0.0	2,040	5,391,199	151,327	2.89%
Nov-07	5,677,229	462.5	0	30	1	0.0	2,044	5,885,209	207,980	3.66%
Dec-07	6,403,268	630.7	0	31	0	0.0	2,048	6,547,921	144,653	2.26%
Jan-08	6,647,299	623.5	0	31	0	0.0	2,056	6,554,873	-92,426	-1.39%
Feb-08	6,365,802	674.7	0	29	0	0.0	2,063	6,548,463	182,661	2.87%
Mar-08	6,460,775	610.2	0	31	1	0.0	2,070	6,339,042	-121,733	-1.88%
Apr-08	5,561,689	253.9	0	30	1	0.0	2,077	5,552,526	-9,163	-0.16%
May-08	5,422,341	193.5	2.5	31	1	0.0	2,084	5,532,646	110,306	2.03%
Jun-08	5,537,561	22.7	71.5	30	0	0.0	2,092	5,807,946	270,385	4.88%
Jul-08	5,950,633	1	111	31	0	0.0	2,099	6,106,554	155,921	2.62%
Aug-08	5,760,191	12.7	64	31	0	0.0	2,106	5,851,261	91,070	1.58%
Sep-08	5,318,216	59	26.7	30	1	0.0	2,113	5,430,657	112,440	2.11%
Oct-08	5,490,847	278.6	0	31	1	0.0	2,121	5,805,962	315,115	5.74%
Nov-08	5,989,831	451.6	0	30	1	0.0	2,128	6,121,096	131,265	2.19%
Dec-08	6,805,208	654.6	0	31	0	0.0	2,136	6,865,899	60,691	0.89%
Jan-09	7,079,298	830.2	0	31	0	0.0	2,141	7,248,255	168,957	2.39%
Feb-09	6,307,871	606.4	0	28	0	0.0	2,147	6,597,390	289,519	4.59%
Mar-09	6,443,897	533.8	0	31	1	0.0	2,152	6,433,643	-10,254	-0.16%
Apr-09	5,610,063	305.8	1.2	30	1	0.0	2,158	5,916,771	306,707	5.47%
May-09	5,596,845	158.8	6.9	31	1	0.0	2,163	5,732,301	135,455	2.42%
Jun-09	5,647,174	49.3	34.2	30	0	0.0	2,169	5,862,050	214,876	3.81%
Jul-09	5,997,708	6.2	43.7	31	0	0.0	2,175	5,918,239	-79,469	-1.32%
Aug-09	6,177,211	9.8	91	31	0	0.0	2,180	6,247,125	69,914	1.13%
Sep-09	5,634,245	395.2	20.9	30	1	0.0	2,186	5,608,893	-25,352	-0.45%
Oct-09	5,829,665	287.8	0	31	1	0.0	2,192	6,043,144	213,479	3.66%
Nov-09	6,096,451	361.2	0	30	1	0.0	2,197	6,145,877	49,426	0.81%
Dec-09	7,197,794	631.3	0	31	0	0.0	2,203	7,025,032	-172,762	-2.40%

Jan-10	5,751,618	720.0	0	31	0	0.0	2,214	7,243,421	1,491,802	25.94%
Feb-10	7,544,418	598.3	0	28	0	0.0	2,217	6,797,091	-747,326	-9.91%
Mar-10	6,514,802	422.8	0	31	1	0.0	2,218	6,405,216	-109,586	-1.68%
Apr-10	6,159,266	225.1	0	30	1	0.0	2,211	5,904,925	-254,340	-4.13%
May-10	6,148,608	107.9	45.7	31	1	0.0	2,217	6,040,796	-107,812	-1.75%
Jun-10	6,428,748	21.7	58.7	30	0	0.0	2,245	6,196,026	-232,722	-3.62%
Jul-10	7,529,705	1.8	164.9	31	0	0.0	2,252	6,926,266	-603,440	-8.01%
Aug-10	7,006,819	2.1	138.8	31	0	0.0	2,253	6,762,205	-244,614	-3.49%
Sep-10	6,277,437	78.2	31.5	30	1	0.0	2,254	5,934,184	-343,253	-5.47%
Oct-10	5,785,213	241.6	0.0	31	1	0.0	2,264	6,169,884	384,671	6.65%
Nov-10	6,255,321	405.3	0.0	30	1	0.0	2,276	6,479,910	224,589	3.59%
Dec-10	8,465,226	676.2	0.0	31	0	0.0	2,283	7,364,732	-1,100,494	-13.00%
Jan-11	6,855,370	775.3	0.0	31	0	0.0	2,283	7,570,890	715,520	10.44%
Feb-11	7,477,521	654.2	0.0	28	0	0.0	2,302	7,175,068	-302,453	-4.04%
Mar-11	7,152,569	572.8	0.0	31	1	0.0	2,305	6,985,106	-167,462	-2.34%
Apr-11	6,467,080	332.3	0.0	30	1	0.0	2,308	6,426,565	-40,515	-0.63%
May-11	6,394,047	134.1	13.0	31	1	0.0	2,306	6,159,116	-234,931	-3.67%
Jun-11	6,868,429	19.0	52.2	30	0	0.0	2,316	6,367,215	-501,213	-7.30%
Jul-11	7,225,447	0.0	198.5	31	0	0.0	2,335	7,394,022	168,576	2.33%
Aug-11	7,335,385	0.0	122.2	31	0	0.0	2,354	6,962,083	-373,302	-5.09%
Sep-11	6,365,381	48.2	39.7	30	1	0.0	2,360	6,250,822	-114,559	-1.80%
Oct-11	6,187,539	235.5	2.4	31	1	0.0	2,364	6,480,488	292,950	4.73%
Nov-11	6,503,187	341.9	0.0	30	1	0.0	2,368	6,631,257	128,069	1.97%
Dec-11	8,506,879	534.0	0.0	31	0	0.0	2,374	7,349,073	-1,157,807	-13.61%
Jan-12	6,542,070	611.1	0.0	31	0	0.0	2,381	7,531,015	988,945	15.12%
Feb-12	7,307,980	531.7	0.0	29	0	0.0	2,385	7,243,225	-64,755	-0.89%
Mar-12	6,926,364	349.4	0.2	31	1	0.0	2,391	6,786,418	-139,945	-2.02%
Apr-12	6,496,797	321.7	0	30	1	0.0	2,398	6,681,595	184,798	2.84%
May-12	6,393,894	80.7	36.7	31	1	0.0	2,400	6,489,760	95,866	1.50%
Jun-12	6,938,948	23.2	101.6	30	0	0.0	2,403	6,961,326	22,378	0.32%
Jul-12	7,084,382	0	195.1	31	0	0.0	2,401	7,575,361	-109,021	-1.42%
Aug-12	7,811,739	2	112.1	31	0	0.0	2,402	7,049,100	-762,639	-9.76%
Sep-12	6,409,327	85	35.6	30	1	0.0	2,404	6,436,486	27,159	0.42%
Oct-12	6,318,162	242.5	1.1	31	1	0.0	2,413	6,637,550	319,388	5.06%
Nov-12	6,992,291	434.0	0.0	30	1	0.0	2,417	6,973,708	-18,583	-0.27%
Dec-12	8,346,319	533.5	0.0	31	0	0.0	2,425	7,505,045	-941,274	-10.08%
Jan-13	6,992,984	624.4	0.0	31	0	0.0	2,432	7,715,695	722,711	10.33%
Feb-13	7,528,795	631.5	0.0	28	0	0.0	2,441	7,555,781	26,986	0.36%
Mar-13	7,671,019	554.8	0.0	31	1	0.0	2,459	7,421,777	-249,242	-3.25%
Apr-13	6,871,569	358.6	0.0	30	1	0.0	2,464	6,961,551	89,982	1.31%
May-13	6,873,418	109.1	23.1	31	1	0.0	2,462	6,652,302	-221,116	-3.22%
Jun-13	6,715,915	33.0	50.8	30	0	0.0	2,453	6,809,120	93,204	1.39%
Jul-13	7,529,495	1.3	120.8	31	0	0.0	2,456	7,269,814	-259,681	-3.45%
Aug-13	7,547,301	4.4	93.8	31	0	0.0	2,459	7,111,950	-435,350	-5.77%
Sep-13	6,186,232	83.0	28.1	30	1	0.0	2,460	6,556,523	370,291	5.99%
Oct-13	6,762,438	208.5	0.4	31	1	0.0	2,463	7,716,254	-46,184	-0.59%
Nov-13	6,874,649	478.2	0.0	30	1	0.0	2,472	7,234,985	-360,336	-5.24%
Dec-13	9,468,068	687.9	0.0	31	0	0.0	2,477	7,986,335	-1,481,733	-15.65%
Jan-14	7,382,347	825.9	0.0	31	0	0.0	2,482	8,288,810	906,463	12.28%
Feb-14	8,397,444	737.1	0.0	28	0	0.0	2,488	7,920,159	-477,285	-5.68%
Mar-14	8,130,249	690.6	0.0	31	1	0.0	2,489	7,796,643	-333,606	-4.10%
Apr-14	7,475,910	356.9	0.0	30	1	0.0	2,491	7,041,139	-434,771	-5.82%
May-14	6,796,663	132.1	11.9	31	1	0.0	2,495	6,729,755	-66,908	-0.98%
Jun-14	6,448,751	14.1	68.1	30	0	0.0	2,502	7,031,856	583,105	9.04%
Jul-14	7,390,493	4.0	71.0	31	0	0.0	2,512	7,127,737	-262,757	-3.66%
Aug-14	6,944,132	8.8	81.8	31	0	0.0	2,521	7,234,849	290,717	4.19%
Sep-14	6,510,451	69.7	30.1	30	1	0.0	2,528	6,751,061	240,609	3.70%
Oct-14	6,792,374	224.3	1.3	31	1	0.0	2,530	6,961,179	168,805	2.49%
Nov-14	7,187,666	482.1	0.0	30	1	0.0	2,539	7,449,369	261,704	3.64%
Dec-14	8,927,945	557.3	0	31	0	0.0	2,544	7,920,919	-1,007,026	-11.28%
Jan-15	7,934,641	792.4	0.0	31	0	0.0	2,548	8,422,313	517,672	6.39%
Feb-15	8,638,405	856.8	0.0	28	0	0.0	2,555	8,375,443	-62,962	-0.74%
Mar-15	8,246,135	615.5	0.0	31	1	0.0	2,553	7,837,576	-408,559	-4.95%
Apr-15	7,179,232	313.7	0.1	30	1	0.0	2,549	7,130,604	-48,628	-0.68%
May-15	6,664,715	89.3	34.1	31	1	0.0	2,546	6,940,426	275,711	4.10%
Jun-15		22.79	75.6	30	0	0.0	2,551	7,249,126	7,249,126	
Jul-15		1.8	136.7	31	0	0.0	2,556	7,681,075	7,681,075	
Aug-15		4.9	108.7	31	0	0.0	2,561	7,522,872	7,522,872	
Sep-15		61.9	32.5	30	1	0.0	2,566	6,867,252	6,867,252	
Oct-15		236.5	3.4	31	1	0.0	2,571	7,126,090	7,126,090	
Nov-15		418.7	0.0	30	1	0.0	2,575	7,428,394	7,428,394	
Dec-15		607.1	0.0	31	0	0.0	2,618	8,231,644	8,231,644	
Jan-16		700.2	0.0	31	0	0.0	2,617	8,443,668	8,443,668	
Feb-16		663.5	0.0	29	0	0.0	2,623	8,250,948	8,250,948	
Mar-16		541.3	0.0	31	1	0.0	2,629	7,918,031	7,918,031	
Apr-16		311.8	0.1	30	1	0.0	2,635	7,392,148	7,392,148	
May-16		127.9	22.2	31	1	0.0	2,641	7,237,654	7,237,654	
Jun-16		22.8	75.6	30	0	0.0	2,647	7,545,471	7,545,471	
Jul-16		1.8	136.7	31	0	0.0	2,653	7,980,499	7,980,499	
Aug-16		4.9	108.7	31	0	0.0	2,659	7,825,375	7,825,375	
Sep-16		61.9	32.5	30	1	0.0	2,665	7,172,834	7,172,834	
Oct-16		236.5	3.4	31	1	0.0	2,670	7,431,671	7,431,671	
Nov-16		418.7	0.0	30	1	0.0	2,675	7,737,054	7,737,054	
Dec-16		607.1	0.0	31	0	0.0	2,680	8,444,182	8,444,182	

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10 Yr Avg Weather Normal

1,193,055,952

2001	59,298,833	57,895,810	(1,403,023)	-2.4%
2002	60,711,850	59,237,800	(1,474,050)	-2.4%
2003	61,255,640	59,708,436	(1,547,204)	-2.5%
2004	61,650,512	60,005,690	(1,644,823)	-1.7%
2005	65,492,217	66,929,176	1,436,959	2.2%
2006	64,355,939	68,452,869	4,096,930	6.4%
2007	68,462,631	70,646,869	2,184,239	3.2%
2008	71,310,393	72,516,925	1,206,533	1.7%
2009	73,618,223	74,778,510	1,160,287	1.6%
2010	79,867,181	78,224,656	(1,642,526)	-2.1%
2011	83,338,834	81,751,707	(1,587,127)	-1.9%
2012	84,168,273	83,870,589	(297,684)	-0.4%
2013	87,021,883	85,992,088	(1,029,795)	-1.2%
2014	88,384,427	88,253,476	(130,950)	-0.1%
2015		90,812,815	90,812,815	#DIV/0!
2016		93,379,535	93,379,535	#DIV/0!
Total to 2016	1,008,936,835	1,008,863,602	-73,234	

1,193,055,952

0

Check totals above should be zero.

SUMMARY OUTPUT

Regression Statistics								
Multiple R	0.94154624							
R Square	0.886509322							
Adjusted R Square	0.88240725							
Standard Error	360347.6027							
Observations	173							

ANOVA								
	df	SS	MS	F	Significance F			
Regression	6	1.68374E+14	2.80623E+13	216.1125337	1.02578E-75			
Residual	166	2.15552E+13	1.2985E+11					
Total	172	1.89929E+14						

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-3161976.562	1053595.767	-3.001128763	0.003105097	-5242151.545	-1081801.579	-5242151.545	-1081801.579
Heating Degree Days	2080.303541	179.3277139	11.60056913	3.64497E-23	1726.246477	2434.360606	1726.246477	2434.360606
Cooling Degree Days	6427.709103	1067.478694	6.021393345	1.07721E-08	4320.124256	8535.29395	4320.124256	8535.29395
Number of Days in Month	67464.07444	34365.63779	1.963114499	0.051303775	-386.3942022	135314.5331	-386.3942022	135314.5331
Spring Fall Flag	-232253.1844	76826.79629	-3.023075223	0.002899513	-383936.7661	-80569.60264	-383936.7661	-80569.60264
Blackout Flag	-176247.5771	367148.4569	-0.480044445	0.631827729	-901129.9835	548634.8293	-901129.9835	548634.8293
Number of Customers	3078.677631	97.32013702	31.6345386	3.4208E-72	2886.532863	3270.822399	2886.532863	3270.822399

Predicted Consumption Adjusted for 2015 - 2020 CDM Plans	CDM Reduction for 2015 - 2020
8,404,513	17,800
8,355,156	20,287
7,814,802	22,774
7,105,343	25,262
6,912,677	27,749
7,218,890	30,236
7,648,352	32,723
7,487,661	35,210
6,829,555	37,698
7,085,905	40,185
7,385,722	42,672
8,186,485	45,159
8,395,682	47,976
8,200,156	50,792
7,864,423	53,608
7,335,724	56,424
7,178,413	59,241
7,483,415	62,057
7,915,626	64,873
7,757,685	67,689
7,102,329	70,506
7,358,350	73,322
7,660,916	76,138
8,365,228	78,954
	<u>1,139,335</u>

Dec. count from Rate Class Customer Model tab - back up count to Jan

Dec. count from Rate Class Customer Model tab - back up count to Jan

Adjusted for CDM

90,435,059
92,617,956

Jan	1
Feb	2
Mar	3
Apr	4
May	5
Jun	6
Jul	7
Aug	8
Sep	9
Oct	10
Nov	11
Dec	12
Total	78

Jan-15	17,800
Feb-15	20,287
Mar-15	22,774
Apr-15	25,262
May-15	27,749
Jun-15	30,236
Jul-15	32,723
Aug-15	35,210
Sep-15	37,698
Oct-15	40,185
Nov-15	42,672
Dec-15	45,159
Jan-16	47,676
Feb-16	50,792
Mar-16	53,608
Apr-16	56,424
May-16	59,241
Jun-16	62,057
Jul-16	64,873
Aug-16	67,689
Sep-16	70,506
Oct-16	73,322
Nov-16	76,138
Dec-16	78,954

General Service > 50 - 999 kW

	Used	Heating	Cooling	Number of		Spring	Number of	Blackout	Flan	Number of	Predicted	Variances	% Variance
		Degree	Degree	Days in	Month		Peak Hours				Consumption	(kW)	
		Days	Days	Month		Fall				Customers			
Jan-01	11,838,142	684.9	0	31	0	352	0	186	11,947,350	109,209	0.92%		
Feb-01	11,886,530	587.6	0	28	0	320	0	186	10,985,887	-900,643	-7.58%		
Mar-01	12,505,705	566.6	0	31	1	352	0	187	11,629,183	-876,522	-7.01%		
Apr-01	11,170,578	293.8	1.4	30	1	320	0	187	10,654,905	-515,673	-4.62%		
May-01	11,983,306	111.5	12.2	31	1	352	0	188	10,917,478	-1,065,828	-8.89%		
Jun-01	12,392,962	29.8	79.7	30	0	336	0	188	11,336,507	-1,056,455	-8.52%		
Jul-01	12,522,301	9.3	100.9	31	0	336	0	189	11,715,663	-806,639	-6.44%		
Aug-01	12,620,310	0	160	31	0	352	0	190	12,512,399	-107,911	-0.86%		
Sep-01	11,885,727	73.6	35.7	30	1	304	0	190	10,587,058	-1,298,668	-10.93%		
Oct-01	12,101,407	232.5	2	31	1	352	0	191	11,210,581	-890,826	-7.36%		
Nov-01	11,966,814	325.8	0	30	1	352	0	191	11,247,495	-719,319	-6.01%		
Dec-01	12,264,855	505	0	31	0	304	0	192	11,474,726	-790,129	-6.44%		
Jan-02	12,529,613	572.2	0	31	0	352	0	194	12,188,602	-341,011	-2.72%		
Feb-02	11,736,498	540.2	0	28	0	320	0	196	11,438,893	-297,605	-2.54%		
Mar-02	12,358,365	545.6	0	31	1	320	0	198	11,903,280	-455,084	-3.68%		
Apr-02	11,292,326	329.5	8.3	30	1	352	0	200	11,832,154	-549,828	-4.87%		
May-02	11,924,263	227.5	7.8	31	1	352	0	202	11,900,932	-23,331	-0.20%		
Jun-02	12,261,487	36.2	70	30	0	320	0	205	11,969,098	-292,389	-2.38%		
Jul-02	13,146,859	0	192.4	31	0	352	0	207	13,798,730	651,871	4.96%		
Aug-02	13,236,976	0.2	142.7	31	0	336	0	209	13,237,118	142	0.00%		
Sep-02	12,380,750	87.6	31	1	320	0	211	12,344,479	-36,270	-0.29%			
Oct-02	12,427,084	292.2	10	31	1	352	0	213	12,657,645	230,561	1.86%		
Nov-02	12,406,110	445	0	30	1	336	0	216	12,664,350	258,240	2.08%		
Dec-02	12,271,970	619.4	0	31	0	320	0	218	13,284,749	1,012,779	8.25%		
Jan-03	13,541,693	814.5	0	31	0	352	0	217	13,959,432	417,739	3.08%		
Feb-03	12,379,073	69.9	0	28	0	320	0	217	12,907,389	-471,684	-3.82%		
Mar-03	12,561,198	581.1	0	31	1	336	0	216	13,139,954	578,757	4.61%		
Apr-03	11,760,625	372.5	2.4	30	1	336	0	216	12,560,871	800,246	6.80%		
May-03	11,578,377	177.9	0	31	1	336	0	215	12,282,622	704,245	6.08%		
Jun-03	11,981,908	43.4	52.9	30	0	336	0	215	12,535,121	553,213	4.62%		
Jul-03	12,817,686	6	118.3	31	0	352	0	214	13,433,862	616,206	4.91%		
Aug-03	11,859,385	2	128	31	0	320	1.0	214	11,859,382	0	0.00%		
Sep-03	12,033,103	54.9	24	30	1	336	0.0	213	12,021,880	-11,223	-0.09%		
Oct-03	12,474,758	276	0	31	1	352	0.0	213	12,494,405	19,647	0.16%		
Nov-03	12,313,794	398.5	0	30	1	320	0.0	212	12,232,619	-81,176	-0.66%		
Dec-03	12,761,784	561.5	0	31	0	352	0.0	212	13,000,665	238,881	1.87%		
Jan-04	13,863,513	849.1	0	31	0	336	0.0	213	13,647,947	-215,566	-1.55%		
Feb-04	12,891,275	631.7	0	29	0	320	0.0	215	12,809,481	-81,794	-0.63%		
Mar-04	13,308,532	487.3	0	31	1	368	0.0	216	13,248,148	-60,384	-0.45%		
Apr-04	12,295,333	331.5	0	30	1	336	0.0	218	12,538,391	243,058	1.98%		
May-04	12,340,126	159.9	8.6	31	1	320	0.0	219	12,364,889	24,764	0.20%		
Jun-04	12,823,937	44.2	31.6	30	0	352	0.0	220	12,759,909	-64,028	-0.50%		
Jul-04	12,991,007	3.6	86.4	31	0	336	0.0	222	13,347,285	356,278	2.74%		
Aug-04	13,137,344	12.8	59.6	31	0	336	0.0	223	13,158,723	21,379	0.16%		
Sep-04	13,290,380	30	41.2	30	1	336	0.0	225	12,767,884	-522,497	-3.93%		
Oct-04	12,778,185	226.3	1.5	31	1	352	0.0	226	12,815,371	38,139	0.30%		
Nov-04	13,141,919	379.1	0	30	1	352	0.0	228	13,338,933	197,014	1.50%		
Dec-04	13,116,584	643.4	0	31	0	336	0.0	229	14,097,877	981,294	7.48%		
Jan-05	14,305,779	770	0	31	0	320	0.0	230	14,255,602	-50,177	-0.35%		
Feb-05	12,799,292	616.4	0	28	0	320	0.0	231	13,531,979	732,687	5.72%		
Mar-05	13,685,935	605.6	0	31	1	352	0.0	233	14,237,255	551,315	4.03%		
Apr-05	12,470,527	306.8	0	30	1	336	0.0	234	13,389,077	918,550	7.37%		
May-05	12,828,995	189.4	0.8	31	1	336	0.0	235	13,394,210	565,215	4.41%		
Jun-05	14,420,639	8.9	146.3	30	0	352	0.0	236	14,793,187	372,548	2.58%		
Jul-05	14,310,581	0	188.7	0	30	320	0.0	238	15,141,481	830,900	5.81%		
Aug-05	14,522,664	0	140.7	31	0	352	0.0	239	15,014,232	491,568	3.38%		
Sep-05	13,779,214	22.6	52.1	30	1	336	0.0	240	13,722,976	-56,238	-0.41%		
Oct-05	13,452,154	220.2	7.6	31	1	320	0.0	241	13,713,237	-261,082	-1.94%		
Nov-05	13,745,574	388.4	0	30	1	352	0.0	243	14,191,726	446,152	3.25%		
Dec-05	13,938,525	665.3	0	31	0	320	0.0	244	14,804,962	866,437	6.22%		
Jan-06	14,466,188	621.8	0	31	0	336	0.0	244	14,744,504	-278,398	-1.92%		
Feb-06	13,583,211	604.3	0	28	0	320	0.0	244	14,207,629	624,418	4.60%		
Mar-06	14,311,793	516.6	0	31	1	368	0.0	244	14,851,944	540,151	3.77%		
Apr-06	12,560,526	293.3	0	30	1	304	0.0	244	13,617,488	1,056,961	8.41%		
May-06	13,472,684	136.9	26	31	1	352	0.0	244	14,221,815	749,130	5.56%		
Jun-06	14,114,358	19.5	73.6	30	0	352	0.0	244	14,498,482	371,734	2.63%		
Jul-06	14,425,541	0	167.3	31	0	320	0.0	245	15,295,426	869,886	6.03%		
Aug-06	14,403,653	4.2	101.6	31	0	352	0.0	245	14,922,955	-519,302	-3.61%		
Sep-06	13,195,442	80.9	12.9	30	1	320	0.0	245	13,510,907	-315,465	-2.39%		
Oct-06	13,499,793	288.3	1.1	31	1	336	0.0	245	14,127,163	627,369	4.65%		
Nov-06	13,609,012	382.2	0	30	1	352	0.0	245	14,300,473	691,462	5.08%		
Dec-06	13,667,685	500.5	0	31	0	304	0.0	245	14,378,532	710,849	5.20%		
Jan-07	14,499,149	647.1	0	31	0	352	0.0	247	15,260,069	760,920	5.25%		
Feb-07	13,786,102	740.1	0	28	0	320	0.0	249	14,768,648	982,546	7.13%		
Mar-07	14,669,988	546.7	0	31	1	352	0.0	252	15,161,452	491,464	3.35%		
Apr-07	13,658,497	355.4	0	30	1	320	0.0	254	14,429,892	771,395	5.65%		
May-07	14,251,536	136.4	22.4	31	1	352	0.0	256	14,835,563	584,027	4.10%		
Jun-07	14,814,543	16.5	99.2	30	0	336	0.0	259	15,373,244	558,701	3.77%		
Jul-07	14,647,680	3.2	106.1	31	0	336	0.0	261	15,711,054	1,063,374	7.26%		
Aug-07	15,082,402	5.2	141	31	0	352	0.0	263	16,370,220	1,287,818	8.54%		
Sep-07	13,794,793	-36.9	47.5	30	1	304	0.0	266	14,788,374	993,581	7.20%		
Oct-07	14,221,681	137.7	19.8	31	1	352	0.0	268	15,460,099	1,238,418	8.71%		
Nov-07	14,348,083	462.5	0	30	1	352	0.0	271	15,868,935	1,520,852	10.60%		
Dec-07	14,560,509	630.7	0	31	0	304	0.0	273	16,176,366	1,615,856	11.10%		
Jan-08	15,500,611	623.5	0	31	0	352	0.0	273	16,635,401	1,134,790	7.32%		
Feb-08	14,665,320	674.7	0	29	0	320	0.0	273	16,104,266	1,438,946	9.81%		
Mar-08	15,470,225	610.2	0	31	1	304	0.0	273	16,000,247	-530,022	-3.43%		
Apr-08	14,493,027	253.9	0	30	1	352	0.0	273	15,606,150	1,113,123	7.68%		
May-08	14,379,604	193.5	2.5	31	1	336	0.0	273	15,521,516	1,141,912	7.94%		
Jun-08	14,950,843	22.7	71.5	30	0	336	0.0	273	15,905,849	955,006	6.39%		
Jul-08	15,930,422	1	111	31	0	352	0.0	274	16,606,771	676,348	4.25%		
Aug-08	15,111,455	12.7	64	31	0	320	0.0	274	15,819,551	-708,096	-4.69%		
Sep-08	14,909,315	59	26.7	30	1	336	0.0	274	15,368,480	459,166	3.08%		
Oct-08	14,902,218	278.6	0	31	1	352	0.0	274	15,844,326	942,108	6.32%		
Nov-08	14,939,535	451.6	0	30	1	304	0.0	274	15,559,829	620,294	4.15%		
Dec-08	15,695,160	654.6	0	31	0	336	0.0	274					

Jan-10	16,607,242	720.0	0	31	0	320	0.0	278	16,783,129	175,888	1.06%
Feb-10	15,539,340	598.3	0	28	0	304	0.0	277	15,844,179	304,839	1.96%
Mar-10	16,314,930	422.8	0	31	1	368	0.0	280	16,627,347	312,417	1.91%
Apr-10	15,007,425	225.1	0	30	1	320	0.0	279	15,545,841	538,416	3.59%
May-10	15,885,425	107.9	45.7	31	1	320	0.0	275	15,741,172	-144,253	-0.91%
Jun-10	16,146,636	21.7	58.7	30	0	352	0.0	254	14,853,104	-1,293,532	-8.01%
Jul-10	17,272,529	1.8	164.9	31	0	336	0.0	255	16,003,956	-1,268,664	-7.34%
Aug-10	17,113,333	2.1	138.8	31	0	336	0.0	255	15,726,562	-1,386,771	-8.10%
Sep-10	15,405,576	78.2	31.5	30	1	336	0.0	255	14,427,365	-978,211	-6.35%
Oct-10	14,981,294	241.6	0.0	31	1	320	0.0	255	14,421,232	-560,062	-3.74%
Nov-10	15,613,489	405.3	0.0	30	1	336	0.0	255	14,742,576	-870,914	-5.58%
Dec-10	16,719,948	670.2	0.0	31	0	368	0.0	257	16,013,579	-706,370	-4.22%
Jan-11	16,624,484	775.3	0.0	31	0	320	0.0	257	15,739,031	-885,453	-5.33%
Feb-11	15,658,887	654.2	0.0	28	0	304	0.0	255	14,746,316	-912,571	-5.83%
Mar-11	16,577,682	572.8	0.0	31	1	368	0.0	256	15,606,770	-970,912	-5.86%
Apr-11	14,870,366	332.3	0.0	30	1	320	0.0	257	14,550,034	-320,332	-2.15%
May-11	15,387,555	134.1	13.0	31	1	336	0.0	263	14,942,734	-444,821	-2.89%
Jun-11	16,284,747	19.0	52.2	30	0	352	0.0	263	15,273,118	-1,011,629	-6.21%
Jul-11	16,946,151	0.0	198.5	31	0	320	0.0	265	16,750,615	-195,536	-1.15%
Aug-11	16,700,144	0.0	122.2	31	0	352	0.0	267	16,362,296	-337,848	-2.02%
Sep-11	15,666,779	48.2	39.7	30	1	336	0.0	268	15,169,475	-497,304	-3.17%
Oct-11	15,493,508	235.5	2.4	31	1	320	0.0	270	15,259,025	-234,483	-1.51%
Nov-11	15,848,618	341.9	0.0	30	1	352	0.0	271	15,653,004	-195,614	-1.23%
Dec-11	16,723,848	534.0	0.0	31	0	320	0.0	271	16,028,400	-695,449	-4.16%
Jan-12	16,556,509	611.1	0.0	31	0	336	0.0	271	16,339,013	-217,496	-1.31%
Feb-12	15,850,544	531.7	0.0	29	0	320	0.0	272	15,795,680	-54,863	-0.60%
Mar-12	16,308,714	349.4	0.2	31	1	352	0.0	272	15,886,563	-422,151	-2.59%
Apr-12	14,651,507	321.7	0	30	1	320	0.0	272	15,353,312	701,804	4.79%
May-12	16,853,445	80.7	36.7	31	1	352	0.0	273	15,795,747	-1,057,698	-6.28%
Jun-12	16,649,643	23.2	101.6	30	0	336	0.0	271	16,090,080	-559,563	-3.36%
Jul-12	16,931,324	0	195.1	31	0	336	0.0	271	17,201,379	270,055	1.60%
Aug-12	16,567,284	2	112.1	31	0	352	0.0	270	16,423,359	-143,714	-0.87%
Sep-12	15,411,422	85	35.6	30	1	304	0.0	271	15,049,423	-361,999	-2.35%
Oct-12	15,760,124	242.5	1.1	31	1	352	0.0	271	15,628,526	-131,598	-0.84%
Nov-12	16,203,458	434.0	0.0	30	1	352	0.0	271	15,836,226	-367,231	-2.27%
Dec-12	16,462,600	533.5	0.0	31	0	304	0.0	271	15,870,173	-592,427	-3.60%
Jan-13	16,989,456	624.4	0.0	31	0	336	0.0	271	16,522,704	-466,752	-2.75%
Feb-13	16,279,006	631.5	0.0	28	0	304	0.0	271	15,580,480	-698,526	-4.29%
Mar-13	17,118,644	554.8	0.0	31	1	320	0.0	272	15,978,589	-1,140,055	-6.66%
Apr-13	16,317,713	358.6	0.0	30	1	352	0.0	273	15,796,142	-521,571	-3.20%
May-13	16,555,897	109.1	23.1	31	1	352	0.0	272	15,652,429	-903,428	-5.46%
Jun-13	16,748,419	33.0	30.0	30	0	320	0.0	273	15,521,171	-1,227,249	-7.33%
Jul-13	17,797,829	1.3	120.8	31	0	352	0.0	271	16,569,801	-1,228,028	-6.90%
Aug-13	17,433,511	4.4	93.8	31	0	336	0.0	271	16,131,150	-1,302,361	-7.47%
Sep-13	16,323,800	83.0	28.1	30	1	320	0.0	272	15,177,748	-1,146,052	-7.02%
Oct-13	16,888,950	208.5	0.4	31	1	352	0.0	274	15,718,304	-1,170,646	-6.93%
Nov-13	16,378,560	478.2	0.0	30	1	336	0.0	273	15,876,841	-501,719	-3.06%
Dec-13	18,347,867	687.9	0.0	31	0	320	0.0	273	16,444,482	-1,903,385	-10.37%
Jan-14	18,474,771	825.9	0.0	31	0	352	0.0	274	17,088,439	-1,386,332	-7.50%
Feb-14	17,309,349	737.1	0.0	28	0	304	0.0	274	15,955,433	-1,353,916	-7.82%
Mar-14	18,435,425	690.6	0.0	31	1	336	0.0	275	16,570,852	-1,864,572	-10.11%
Apr-14	16,625,533	356.9	0.0	30	1	336	0.0	276	15,800,401	-825,132	-4.96%
May-14	16,304,923	132.1	11.9	31	1	336	0.0	278	15,751,404	-553,519	-3.39%
Jun-14	16,672,278	14.1	68.1	30	0	336	0.0	279	16,154,818	-517,460	-3.10%
Jul-14	16,686,928	4.0	71.0	31	0	352	0.0	282	16,649,270	-37,658	-0.23%
Aug-14	16,611,493	8.8	81.8	31	0	320	0.0	283	16,514,347	-97,145	-0.58%
Sep-14	16,361,292	69.7	30.1	30	1	336	0.0	283	15,934,869	-426,933	-2.61%
Oct-14	16,487,939	224.3	1.3	31	1	352	0.0	282	16,198,984	-288,954	-1.75%
Nov-14	17,004,285	482.1	0.0	30	1	320	0.0	284	16,331,902	-672,383	-3.95%
Dec-14	17,950,455	557.3	0	31	0	336	0.0	284	16,946,435	-1,004,020	-5.59%
Jan-15	18,520,646	792.4	0.0	31	0	336	0.0	286	17,524,055	-996,591	
Feb-15	17,804,505	856.8	0.0	28	0	304	0.0	287	16,908,013	-896,492	
Mar-15	18,273,708	615.5	0.0	31	1	352	0.0	288	17,293,345	-980,363	
Apr-15	16,498,574	313.7	0.1	30	1	336	0.0	290	16,485,146	-13,428	
May-15	16,837,661	89.3	34.1	31	1	320	0.0	291	16,459,937	-377,724	
Jun-15		22.8	75.6	30	0	352	0.0	292	17,123,886	17,123,886	
Jul-15		1.8	136.7	31	0	352	0.0	293	17,949,549	17,949,549	
Aug-15		4.9	108.7	31	0	320	0.0	294	17,397,724	17,397,724	
Sep-15		61.9	32.5	30	1	336	0.0	295	16,603,944	16,603,944	
Oct-15		236.5	3.4	31	1	336	0.0	295	16,802,521	16,802,521	
Nov-15		418.7	0.0	30	1	336	0.0	295	16,967,621	16,967,621	
Dec-15		607.1	0.0	31	0	336	0.0	295	17,521,411	17,521,411	
Jan-16		700.2	0.0	31	0	320	0.0	293	17,549,272	17,549,272	
Feb-16		663.5	0.0	29	0	320	0.0	293	17,153,239	17,153,239	
Mar-16		541.3	0.0	31	1	352	0.0	294	17,456,745	17,456,745	
Apr-16		311.8	0.1	30	1	336	0.0	295	16,737,321	16,737,321	
May-16		127.9	22.2	31	1	336	0.0	296	16,823,503	16,823,503	
Jun-16		22.8	75.6	30	0	352	0.0	297	17,379,901	17,379,901	
Jul-16		1.8	136.7	31	0	320	0.0	298	17,891,100	17,891,100	
Aug-16		4.9	108.7	31	0	352	0.0	299	17,968,203	17,968,203	
Sep-16		61.9	32.5	30	1	336	0.0	300	16,859,959	16,859,959	
Oct-16		236.5	3.4	31	1	320	0.0	301	16,956,202	16,956,202	
Nov-16		418.7	0.0	30	1	352	0.0	302	17,490,783	17,490,783	
Dec-16		607.1	0.0	31	0	320	0.0	302	17,854,532	17,854,532	

59356.6 5995.2

10 Yr Average Weather Normal

2,868,676.635

2001	145,138,639					136,219,233	(8,919,405)	-6.15%
2002	147,962,301					149,220,030	1,257,730	0.85%
2003	148,063,380					152,423,224	4,359,844	2.94%
2004	155,978,135					156,895,792	917,656	0.59%
2005	164,259,880					170,189,920	5,930,040	3.61%
2006	165,309,885					172,665,010	7,355,125	4.45%
2007	172,334,963					184,203,915	11,868,952	6.89%
2008	180,947,735					191,562,811	10,615,076	5.87%
2009	184,558,255					191,231,680	6,673,425	3.62%
2010	192,607,268					186,730,051	(5,877,217)	-3.05%
2011	192,782,770					186,080,818	(6,701,951)	-3.48%
2012	194,206,573					191,229,692	(2,976,881)	-1.53%
2013	203,179,611					190,969,841	(12,209,770)	-6.01%
2014	204,924,670					195,896,644	(9,028,026)	-4.41%
2015						205,037,152	205,037,152	#DIV/0!
2016						208,120,820	208,120,820	#DIV/0!
Total to 2013	2,452,254,063					2,455,518,663	3,264,600	

2,868,676.635 0
Check totals, should be zero.

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.912925371
R Square	0.833432733
Adjusted R Square	0.826366243
Standard Error	765807.3901
Observations	173

ANOVA					
	df	SS	MS	F	Significance F
Regression	7	4.84177E+14	6.91681E+13	117.941541	7.55507E-61
Residual	165	9.67661E+13	5.86461E+11		
Total	172	5.80943E+14			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-8080185.296	2287501.776	-3.532318699	0.000634337	-12596733.18	-3563637.411	-12596733.18	-3563637.411
Heating Degree Days	1989.386495	381.5416852	5.214073776	5.46929E-07	1236.053182	2742.719808	1236.053182	2742.719808
Cooling Degree Days	10651.35627	2271.215439	4.689716389	5.70618E-06	6166.96487	15135.74767	6166.96487	15135.74767
Number of Days in Month	161950.7999	79022.27075	2.044370509	0.042506207	5525.622742	317575.9771	5525.622742	317575.9771
Spring Fall Flag	-146147.9453	163610.1961	-0.893269232	0.373014008	-469187.3624	176891.4717	-469187.3624	176891.4717
Number of Peak Hours	9826.999606	3897.067947	2.521638278	0.012628781	2132.450827	17521.54838	2132.450827	17521.54838
Blackout Flag	-1339641.622	784535.1703	-1.707560952	0.089598687	-2888663.661	209380.4164	-2888663.661	209380.4164
Number of Customers	54957.70449	2006.407553	27.39109729	2.8162E-63	50996.16186	58919.24711	50996.16186	58919.24711

Predicted Consumption Adjusted for 2015 - 2020 CDM Plans	CDM Reduction for 2015 - 2020
17,467,756	56,299
16,842,200	65,812
17,218,019	75,326
16,400,306	84,839
16,365,584	94,353
17,020,020	103,866
17,836,169	113,379
17,274,832	122,893
16,471,538	132,406
16,660,602	141,920
16,816,188	151,433
17,360,465	160,946
17,377,440	171,832
16,970,522	182,717
17,263,142	193,603
16,532,833	204,488
16,606,129	215,374
17,153,641	226,259
17,653,955	237,145
17,720,173	248,030
16,001,043	258,916
16,686,460	269,801
17,210,096	280,687
17,562,960	291,572
	<u>4,083,898</u>

Dec. count from Rate Class Customer Model tab - back up count to Jan

Dec. count from Rate Class Customer Model tab - back up count to Jan

Adjusted for CDM

203,733,680
205,340,394

CDM Related Savings

General Service 50 - 999 kW

	OPA kWh Net Savings Persistence	OPA kWh Annual Net Savings	50% of Annual Net Savings	OPA kWh Net Savings With First Year	Change Year Over Year	Monthly Increment (Year/78)	Check		
2005	0	0	0	-	-	0	0	0	Jan
2006	0	0	0	-	-	0	0	0	Feb
2007	0	0	0	-	-	0	0	0	Mar
2008	0	0	0	-	-	0	0	0	Apr
2009	0	0	0	-	-	0	0	0	May
2010	0	0	0	-	-	0	0	0	Jun
2011	0	0	0	-	-	0	0	0	Jul
2012	0	0	0	-	-	0	0	0	Aug
2013	0	0	0	-	-	0	0	0	Sep
2014	0	1,122,853	561,426	561,426	561,426	7,198	561,426	0	Oct
2015	561,426	1,484,091	742,045	1,303,472	742,045	9,513	1,303,472	0	Nov
2016	2,045,517	1,469,818	734,909	2,780,426	849,070	10,886	2,780,426	0	Dec
	2,606,944	4,076,762		4,645,325			4,645,325	0	Total
		6,683,705							

Jan-05	0		Jan-08	0		Jan-11	0		Jan-14	7,198		
Feb-05	0		Feb-08	0		Feb-11	0		Feb-14	14,396		
Mar-05	0		Mar-08	0		Mar-11	0		Mar-14	21,593		
Apr-05	0		Apr-08	0		Apr-11	0		Apr-14	28,791		
May-05	0		May-08	0		May-11	0		May-14	35,989		
Jun-05	0		Jun-08	0		Jun-11	0		Jun-14	43,187		
Jul-05	0		Jul-08	0		Jul-11	0		Jul-14	50,384		
Aug-05	0		Aug-08	0		Aug-11	0		Aug-14	57,582		
Sep-05	0		Sep-08	0		Sep-11	0		Sep-14	64,780		
Oct-05	0		Oct-08	0		Oct-11	0		Oct-14	71,978		
Nov-05	0		Nov-08	0		Nov-11	0		Nov-14	79,176		
Dec-05	0	0	Dec-08	0	0	Dec-11	0	0	Dec-14	86,373	561,426	561,426
Jan-06	0		Jan-09	0		Jan-12	0		Jan-15	56,299		
Feb-06	0		Feb-09	0		Feb-12	0		Feb-15	65,812		
Mar-06	0		Mar-09	0		Mar-12	0		Mar-15	75,326		
Apr-06	0		Apr-09	0		Apr-12	0		Apr-15	84,839		
May-06	0		May-09	0		May-12	0		May-15	94,353		
Jun-06	0		Jun-09	0		Jun-12	0		Jun-15	103,866		
Jul-06	0		Jul-09	0		Jul-12	0		Jul-15	113,379		
Aug-06	0		Aug-09	0		Aug-12	0		Aug-15	122,893		
Sep-06	0		Sep-09	0		Sep-12	0		Sep-15	132,406		
Oct-06	0		Oct-09	0		Oct-12	0		Oct-15	141,920		
Nov-06	0		Nov-09	0		Nov-12	0		Nov-15	151,433		
Dec-06	0	0	Dec-09	0	0	Dec-12	0	0	Dec-15	160,946	1,303,472	1,931,357
Jan-07	0		Jan-10	0		Jan-13	0		Jan-16	171,832		
Feb-07	0		Feb-10	0		Feb-13	0		Feb-16	182,717		
Mar-07	0		Mar-10	0		Mar-13	0		Mar-16	193,603		
Apr-07	0		Apr-10	0		Apr-13	0		Apr-16	204,488		
May-07	0		May-10	0		May-13	0		May-16	215,374		
Jun-07	0		Jun-10	0		Jun-13	0		Jun-16	226,259		
Jul-07	0		Jul-10	0		Jul-13	0		Jul-16	237,145		
Aug-07	0		Aug-10	0		Aug-13	0		Aug-16	248,030		
Sep-07	0		Sep-10	0		Sep-13	0		Sep-16	258,916		
Oct-07	0		Oct-10	0		Oct-13	0		Oct-16	269,801		
Nov-07	0		Nov-10	0		Nov-13	0		Nov-16	280,687		
Dec-07	0	0	Dec-10	0	0	Dec-13	0	0	Dec-16	291,572	2,780,426	3,498,870
										4,083,898		

		General Service < 50 kW	General Service 50 to 999 kW	General Service 1000 to 4999 kW	Large User	Streetlights	Sentinel Lights	Unmetered Loads	Total	Total Metered
	Residential									
1999	9299	1720	181	12	1	2240	328		13,781	11,213
2000	9,409	1710	185	12	1	2244	328		13,889	11,317
2001	9,693	1,700	192	10	1	2283	329	110	14,318	11,596
2002	12,314	1,713	218	10	2	2348	301	114	17,020	14,257
2003	13,821	1,760	212	10	2	2408	311	122	18,646	15,805
2004	15,760	1,803	229	10	2	2466	309	137	20,716	17,804
2005	17,611	1,990	244	11	2	2529	298	139	22,824	19,858
2006	18,720	1,998	245	13	2	2579	295	142	23,994	20,978
2007	20,305	2,048	273	14	2	2634	290	169	25,735	22,642
2008	22,755	2,136	274	14	2	2709	288	176	28,354	25,181
2009	24,832	2,203	275	12	2	2774	279	183	30,560	27,324
2010	26,587	2,283	257	13	2	2,795	266	184	32,387	29,142
2011	27,826	2,374	271	12	2	2,900	265	187	33,837	30,485
2012	29,614	2,425	271	12	2	2,991	265	192	35,772	32,324
2013	31,309	2,477	273	11	3	3,046	256	192	37,567	34,073
2014	32,268	2,544	284	12	3	3,097	251	189	38,648	35,111
2015	33,268	2,611	293	12	3	3,165	247	204	39,802	
2016	34,768	2,680	302	12	3	3,234	242	226	41,467	

Growth Rate in Customer Numbers

1999										
2000	1.0118	0.9942	1.0221	1.0000	1.0000	1.0018	1.0000			
2001	1.0302	0.9942	1.0378	0.8333	1.0000	1.0174	1.0030			1.333
2002	1.2704	1.0076	1.1354	1.0000	2.0000	1.0285	0.9149	1.0364		
2003	1.1224	1.0274	0.9725	1.0000	1.0000	1.0256	1.0332	1.0702		
2004	1.1403	1.0244	1.0802	1.0000	1.0000	1.0241	0.9936	1.1230		
2005	1.1174	1.1037	1.0655	1.1000	1.0000	1.0255	0.9644	1.0146		
2006	1.0630	1.0040	1.0041	1.1818	1.0000	1.0198	0.9899	1.0216		
2007	1.0847	1.0252	1.1143	1.0769	1.0000	1.0213	0.9831	1.1871		
2008	1.1207	1.0425	1.0037	1.0000	1.0000	1.0285	0.9931	1.0467		
2009	1.0513	1.0316	1.0036	0.8810	1.0000	1.0240	0.9688	1.0372		
2010	1.0707	1.0363	0.9345	1.0540	1.0000	1.0076	0.9534	1.0055		
2011	1.0466	1.0399	1.0545	0.9231	1.0000	1.0376	0.9962	1.0163		
2012	1.0643	1.0215	1.0000	1.0000	1.0000	1.0314	1.0000	1.0267		
2013	1.0572	1.0214	1.0074	0.9167	1.5000	1.0184	0.9660	1.0000		
2014	1.0306	1.0270	1.0403	1.0909	1.0000	1.0167	0.9805	0.9844		

	Used Milton Hydro's Customer #'s for 2015 & 2016								
Used		1.0264	1.0305	1.0000	1.0000	1.0218	0.9823	1.0000	
Geomean	1.0906	1.0264	1.0305	1.0000	1.0760	1.0218	0.9823	1.0000	

used 1.0000 for each - no growth

	General					Total
	Service > 50 to 999 kW	General Service > 1000 to 4999 kW	Large User > 4999 kW	Streetlights	Sentinel Lights	
1999						
2000						
2001	413,565	255,515	105,657	8,091	535	783,363
2002	415,618	286,432	125,800	9,249	539	837,638
2003	409,870	271,068	164,458	9,813	533	855,742
2004	420,450	230,160	186,557	10,170	531	847,868
2005	441,283	247,851	184,313	11,151	512	885,111
2006	436,353	241,018	187,387	11,810	507	877,076
2007	456,775	258,605	187,646	12,738	498	916,261
2008	475,950	266,355	187,387	13,799	495	943,985
2009	494,157	260,952	154,282	15,174	479	925,045
2010	502,595	243,580	174,023	16,892	441	937,531
2011	503,231	260,972	175,385	17,894	439	957,921
2012	520,812	287,183	179,954	19,000	413	1,007,362
2013	541,770	232,734	246,682	19,748	425	1,041,359
2014	537,016	242,504	253,601	20,173	419	1,053,713
2015	547,100	232,512	255,233	19,572	411	1,054,829
2016	551,414	231,678	255,025	15,809	404	1,054,330

adjusted for re-class to Large User for one full year.

kW/kWh

1999					
2000					
2001	0.2849%	0.1873%	0.2253%	0.2780%	0.2759%
2002	0.2809%	0.2017%	0.2101%	0.3013%	0.2779%
2003	0.2768%	0.1929%	0.2239%	0.2813%	0.2776%
2004	0.2696%	0.2007%	0.2235%	0.2786%	0.2776%
2005	0.2686%	0.2073%	0.2056%	0.2815%	0.2776%
2006	0.2640%	0.2077%	0.2073%	0.2790%	0.2804%
2007	0.2651%	0.2104%	0.2044%	0.2790%	0.2795%
2008	0.2630%	0.2132%	0.2251%	0.2782%	0.2803%
2009	0.2678%	0.2224%	0.2561%	0.2790%	0.2776%
2010	0.2609%	0.2202%	0.2280%	0.2789%	0.2778%
2011	0.2610%	0.2150%	0.2183%	0.2788%	0.2778%
2012	0.2682%	0.2227%	0.2079%	0.2780%	0.2649%
2013	0.2666%	0.2312%	0.1928%	0.2790%	0.2778%
2014	0.2621%	0.2196%	0.1901%	0.2786%	0.2778%
Average	0.2685%	0.2109%	0.1914%	0.2807%	0.2772%

average for 2013 &
2014 only

GS 1000-4999

Jan	1
Feb	2
Mar	3
Apr	4
May	5
Jun	6
Jul	7
Aug	8
Sep	9
Oct	10
Nov	11
Dec	12
Total	78

Jan-05	0			Jan-08	0			Jan-11	0			Jan-14	855			
Feb-05	0			Feb-08	0			Feb-11	0			Feb-14	1,710			
Mar-05	0			Mar-08	0			Mar-11	0			Mar-14	2,565			
Apr-05	0			Apr-08	0			Apr-11	0			Apr-14	3,420			
May-05	0			May-08	0			May-11	0			May-14	4,276			
Jun-05	0			Jun-08	0			Jun-11	0			Jun-14	5,131			
Jul-05	0			Jul-08	0			Jul-11	0			Jul-14	5,986			
Aug-05	0			Aug-08	0			Aug-11	0			Aug-14	6,841			
Sep-05	0			Sep-08	0			Sep-11	0			Sep-14	7,696			
Oct-05	0			Oct-08	0			Oct-11	0			Oct-14	8,551			
Nov-05	0			Nov-08	0			Nov-11	0			Nov-14	9,406			
Dec-05	0	0	0	Dec-08	0	0	0	Dec-11	0	0	0	Dec-14	10,261	66,700	66,700	
Jan-06	0			Jan-09	0			Jan-12	0			Jan-15	6,579			
Feb-06	0			Feb-09	0			Feb-12	0			Feb-15	7,599			
Mar-06	0			Mar-09	0			Mar-12	0			Mar-15	8,619			
Apr-06	0			Apr-09	0			Apr-12	0			Apr-15	9,639			
May-06	0			May-09	0			May-12	0			May-15	10,660			
Jun-06	0			Jun-09	0			Jun-12	0			Jun-15	11,680			
Jul-06	0			Jul-09	0			Jul-12	0			Jul-15	12,700			
Aug-06	0			Aug-09	0			Aug-12	0			Aug-15	13,720			
Sep-06	0			Sep-09	0			Sep-12	0			Sep-15	14,741			
Oct-06	0			Oct-09	0			Oct-12	0			Oct-15	15,761			
Nov-06	0			Nov-09	0			Nov-12	0			Nov-15	16,781			
Dec-06	0	0	0	Dec-09	0	0	0	Dec-12	0	0	0	Dec-15	17,802	146,280	213,618	
Jan-07	0			Jan-10	0			Jan-13	0			Jan-16	22,011			
Feb-07	0			Feb-10	0			Feb-13	0			Feb-16	26,221			
Mar-07	0			Mar-10	0			Mar-13	0			Mar-16	30,431			
Apr-07	0			Apr-10	0			Apr-13	0			Apr-16	34,640			
May-07	0			May-10	0			May-13	0			May-16	38,850			
Jun-07	0			Jun-10	0			Jun-13	0			Jun-16	43,060			
Jul-07	0			Jul-10	0			Jul-13	0			Jul-16	47,270			
Aug-07	0			Aug-10	0			Aug-13	0			Aug-16	51,479			
Sep-07	0			Sep-10	0			Sep-13	0			Sep-16	55,689			
Oct-07	0			Oct-10	0			Oct-13	0			Oct-16	59,899			
Nov-07	0			Nov-10	0			Nov-13	0			Nov-16	64,109			
Dec-07	0	0	0	Dec-10	0	0	0	Dec-13	0	0	0	Dec-16	68,318	541,978	819,821	
													688,259			

CDM Related Savings		OPA kWh Net	OPA kWh	50% of Annual	OPA kWh Net	Change Year	Monthly			Check		
Large Users		Savings Persistence	Annual Net Savings	Net Savings	Savings With First Year 50%	Over Year	Increment (Year/78)					
	2005	0	0	0	-	-	0	0	0		Jan	1
	2006	0	0	0	-	-	0	0	0		Feb	2
	2007	0	0	0	-	-	0	0	0		Mar	3
	2008	0	0	0	-	-	0	0	0		Apr	4
	2009	0	0	0	-	-	0	0	0		May	5
	2010	0	0	0	-	-	0	0	0		Jun	6
	2011	0	0	0	-	-	0	0	0		Jul	7
	2012	0	0	0	-	-	0	0	0		Aug	8
	2013	0	0	0	-	-	0	0	0		Sep	9
2014 to 2016 CDM Savings with Persistence	2014	0	0	0	-	-	0	0	0		Oct	10
	2015	0	217,139	108,570	108,570	108,570	1,392	108,570	0		Nov	11
	2016	217,139	0	0	217,139	16,703	214	217,139	0		Dec	12
		217,139	217,139		325,709			325,709	0		Total	78
		434,279										

Jan-05	0			Jan-08	0			Jan-11	0			Jan-14	0				
Feb-05	0			Feb-08	0			Feb-11	0			Feb-14	0				
Mar-05	0			Mar-08	0			Mar-11	0			Mar-14	0				
Apr-05	0			Apr-08	0			Apr-11	0			Apr-14	0				
May-05	0			May-08	0			May-11	0			May-14	0				
Jun-05	0			Jun-08	0			Jun-11	0			Jun-14	0				
Jul-05	0			Jul-08	0			Jul-11	0			Jul-14	0				
Aug-05	0			Aug-08	0			Aug-11	0			Aug-14	0				
Sep-05	0			Sep-08	0			Sep-11	0			Sep-14	0				
Oct-05	0			Oct-08	0			Oct-11	0			Oct-14	0				
Nov-05	0			Nov-08	0			Nov-11	0			Nov-14	0				
Dec-05	0	0	0	Dec-08	0	0	0	Dec-11	0	0	0	Dec-14	0	0	0		
Jan-06	0			Jan-09	0			Jan-12	0			Jan-15	1,392				
Feb-06	0			Feb-09	0			Feb-12	0			Feb-15	2,784				
Mar-06	0			Mar-09	0			Mar-12	0			Mar-15	4,176				
Apr-06	0			Apr-09	0			Apr-12	0			Apr-15	5,568				
May-06	0			May-09	0			May-12	0			May-15	6,960				
Jun-06	0			Jun-09	0			Jun-12	0			Jun-15	8,352				
Jul-06	0			Jul-09	0			Jul-12	0			Jul-15	9,743				
Aug-06	0			Aug-09	0			Aug-12	0			Aug-15	11,135				
Sep-06	0			Sep-09	0			Sep-12	0			Sep-15	12,527				
Oct-06	0			Oct-09	0			Oct-12	0			Oct-15	13,919				
Nov-06	0			Nov-09	0			Nov-12	0			Nov-15	15,311				
Dec-06	0	0	0	Dec-09	0	0	0	Dec-12	0	0	0	Dec-15	16,703	108,570	200,436		
Jan-07	0			Jan-10	0			Jan-13	0			Jan-16	16,917				
Feb-07	0			Feb-10	0			Feb-13	0			Feb-16	17,131				
Mar-07	0			Mar-10	0			Mar-13	0			Mar-16	17,345				
Apr-07	0			Apr-10	0			Apr-13	0			Apr-16	17,560				
May-07	0			May-10	0			May-13	0			May-16	17,774				
Jun-07	0			Jun-10	0			Jun-13	0			Jun-16	17,988				
Jul-07	0			Jul-10	0			Jul-13	0			Jul-16	18,202				
Aug-07	0			Aug-10	0			Aug-13	0			Aug-16	18,416				
Sep-07	0			Sep-10	0			Sep-13	0			Sep-16	18,630				
Oct-07	0			Oct-10	0			Oct-13	0			Oct-16	18,844				
Nov-07	0			Nov-10	0			Nov-13	0			Nov-16	19,059				
Dec-07	0	0	0	Dec-10	0	0	0	Dec-13	0	0	0	Dec-16	19,273	217,139	231,273		
		325,709															

Jan	1
Feb	2
Mar	3
Apr	4
May	5
Jun	6
Jul	7
Aug	8
Sep	9
Oct	10
Nov	11
Dec	12
Total	78

Jan-15	9,969		
Feb-15	19,937		
Mar-15	29,906		
Apr-15	39,874		
May-15	49,843		
Jun-15	59,812		
Jul-15	69,780		
Aug-15	79,749		
Sep-15	89,717		
Oct-15	99,686		
Nov-15	109,654		
Dec-15	119,623	777,550	1,435,477
Jan-16	135,398		
Feb-16	151,172		
Mar-16	166,947		
Apr-16	182,722		
May-16	198,496		
Jun-16	214,271		
Jul-16	230,046		
Aug-16	245,820		
Sep-16	261,595		
Oct-16	277,370		
Nov-16	293,144		
Dec-16	308,919	2,665,900	3,707,027
	3,443,450		