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Load and Revenue Forecast

Ex.3/Tab 1/Sch.1 - Introduction

The evidence presented in this exhibit provides information supporting the revenues derived from activities regulated by the Ontario Energy Board. Actual operating revenues from regulated operations are derived mainly from fixed and variable tariff charges as well as pass through charges and specific service charges. Wellington North Power (WNP) revenues are collected from seven (7) customer classes:

1. Residential;
2. General Service less than 50 kW;
3. General Service 50 - 999 kW;
4. General Service 1,000 – 4,999 kW;
5. Unmetered Scattered Load (USL);
6. Sentinel Lighting; and
7. Street Lighting.

WNP does not anticipate any changes in its customer classes.

This exhibit also describes WNP's load and customer forecasts. The load forecast methodology and assumptions are described in detail within this Exhibit.

The evidence herein is organized according into the following topics;

1) Revenue and Load Forecast;
2) Accuracy of Load Forecast and Variance Analysis, and
3) Other Revenues.

Ex.3/Tab 1/Sch.2 - Overview of Revenue Forecast

Table 3.1 below shows estimated revenues from WNP's current 2015 distribution charges applying the 2016 Test Year load forecast. Distribution Revenues are derived through a combination of fixed monthly charges and volumetric charges applied to the utility's proposed Load Forecast. Fixed rate revenues are determined by applying the current fixed monthly charge to the number of customers or connections in each of the customer classes in each month. Variable rate revenue is based on a volumetric rate applied to metered consumption or demand volume. WNP's 2016 forecasted revenues recovered through its currently approved distribution rates are projected at $2,333,709 (exclusive of all rate riders). The revenues at proposed distribution rates are presented at Exhibit 6 (Exhibit 6 / Tab 1 / Schedule 6.)

Table 3.1: Revenues at Current Rates

Test Year

	Test Year Projected Revenue from Existing Variable Charges							
Customer Class Name	Variable Distribution Rate	per	Test Year Volume	Gross Variable Revenue	Transform. Allowance Rate	Transform. Allowance kW's	Transform. Allowance $'s	Net Variable Revenue
Residential	$0.0185	kWh	26,005,466	$481,101.12			$0.00	$481,101.12
General Service < 50 kW	$0.0168	kWh	11,855,213	$199,167.57			$0.00	$199,167.57
General Service > 50 to 999 kW	$3.6643	kW	41,588	$152,390.66	$0.60	12,855	$7,713.06	$144,677.60
General Service 1,000 to 4,999kW	$1.8921	kW	108,301	$204,916.39			$0.00	$204,916.39
Unmetered Scattered Load	$0.0146	kWh	3,024	$44.16			$0.00	$44.16
Sentinel Lighting	$19.3776	kW	65	$1,260.07			$0.00	$1,260.07
Street Lighting	$7.9283	kW	1,995	$15,815.97			$0.00	$15,815.97
Total Variable Revenue			**38,015,652**	**$1,054,695.94**	**$0.60**	**12,855**	**$7,713.06**	**$1,046,982.88**

Test Year

	Test Year Projected Revenue from Current Fixed Charges							
Customer Class Name	Fixed Rate	Customers (Connections)	Fixed Charge Revenue	Variable Revenue	TOTAL	% Fixed Revenue	% Variable Revenue	% Total Revenue
Residential	$18.49	3,251	$721,297	$481,101	$1,202,398	59.99%	40.01%	51.52%
General Service < 50 kW	$39.25	476	$223,972	$199,168	$423,140	52.93%	47.07%	18.13%
General Service > 50 to 999 kW	$275.90	38	$126,012	$144,678	$270,690	46.55%	53.45%	11.60%
General Service 1,000 to 4,999kW	$2,254.94	5	$135,296	$204,916	$340,213	39.77%	60.23%	14.58%
Unmetered Scattered Load	$18.09	1	$217	$44	$261	83.10%	16.90%	0.01%
Sentinel Lighting	$5.24	29	$1,839	$1,260	$3,099	59.34%	40.66%	0.13%
Street Lighting	$7.12	914	$78,092	$15,816	$93,908	83.16%	16.84%	4.02%
Total Fixed Revenue		**4,713**	**$1,286,726**	**$1,046,983**	**$2,333,709**			

WNP is proposing a total Service Revenue Requirement of $2,743,188 for the 2016 Test Year. This amount includes a Base Revenue Requirement of $2,592,599 plus revenue offsets of $150,588 to be recovered through Other Distribution Revenue.

Table 3.2 below summarizes WNP distribution revenue, by rate class and Other Operating Revenue from the 2012 Board Approved amounts through to the 2016 Test Year:

Table 3.2: Distribution Revenues – Actual and Projected

Distribution Revenue	2012 Board Approved	2012 Actual	2013 Actual	2014 Actual	2015 Bridge Year	2016 Test Year
Residential	$1,130,849	$1,204,974	$1,197,086	$1,216,804	$1,202,398	$1,409,206
General Service < 50 kW	$400,036	$423,367	$484,205	$472,915	$423,140	$420,001
General Service > 50 to 999 kW	$298,107	$328,058	$310,308	$294,553	$270,690	$235,377
General Service 1,000 to 4,999kW	$295,993	$217,008	$341,406	$364,426	$340,213	$461,076
Unmetered Scattered Load	$181	$241	$332	$351	$261	$256
Sentinel Lighting	$88,595	$8,683	$3,121	$3,079	$3,099	$5,560
Street Lighting	$2,548	$73,220	$93,334	$94,101	$93,908	$61,123
Base Revenue	**$2,216,309**	**$2,255,551**	**$2,429,792**	**$2,446,230**	**$2,333,709**	**$2,592,599**
Other Distribution Revenue						
Specific Service Charges	$57,043	$55,389	$52,799	$52,388	$58,115	$60,474
Late Payment Charges	$26,047	$28,204	$26,086	$26,748	$27,012	$27,012
Other Distribution/Operating Revenues	$49,937	$49,043	$48,873	$48,162	$60,751	$62,102
Other Income or Deductions	$16,965	$23,963	$326	$27,459	$2,000	$1,000
Total Other Operating Revenue	**$149,992**	**$156,599**	**$128,084**	**$154,757**	**$147,878**	**$150,588**
Service Revenue	**$2,366,301**	**$2,412,150**	**$2,557,876**	**$2,600,987**	**$2,481,587**	**$2,743,188**

In the above table the Base Revenue amounts for 2012 Board Approved, 2015 Bridge Year and 2016 Test Year are based on weather normalized load forecasts based upon the methodology described within this rate application and WNP's 2012 Cost of Service rate application (EB-2011-0249). For the 2012 Actual, 2013 Actual and 2014 Actual, the revenue is derived from the actual energy consumption for each class and is not weather-normalized. WNP does not have a process to weather normalize actual data since the Applicant is not aware that a Board approved method has been established.

Ex.3/Tab 1/Sch.3 - Proposed Load Forecast

The following section of the application covers the approach taken to determine the Load Forecast. This section also covers economic assumptions and data sources for customer and load forecasts. It explains wholesale purchases and subsequent adjustments to the wholesale purchases. It also provides the rationale behind each variable used in the regression analysis. Lastly, it presents the regression results and explains how they were used to determine the forecast for the 2015 Bridge Year and the 2016 Test Year.

Table 3.3 below presents the actual and forecast trends for customer/connection counts, kWh consumption and billed kW demand.

Table 3.3: Customer and Volume Trend Table

Wellington North Power Inc. Weather Normal Load Forecast for 2016 Rate Application												
EB-2015-0110												
	2005 Actual	2006 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Weather Normal	2016 Weather Normal
Actual kWh Purchases	99,177,535	99,726,775	101,905,199	100,510,261	93,415,382	102,608,265	105,625,698	108,411,817	110,314,060	112,420,512		
Predicted kWh Purchases	101,022,119	100,486,424	102,018,514	99,854,869	95,318,000	100,819,380	104,006,389	104,474,814	111,813,624	114,301,367	111,314,900	111,517,168
% Difference	1.9%	0.8%	0.1%	-0.7%	2.0%	-1.7%	-1.5%	-3.6%	1.4%	1.7%		
CDM Purchase Adjustment						0	0	0	0	0	(698,121)	(1,748,974)
Predicted kWh Purchases after CDM											110,616,779	109,768,194
Billed kWh	92,239,845	93,628,881	95,248,613	93,522,520	86,446,481	96,062,450	99,140,087	101,548,388	103,789,320	105,637,369	103,509,409	102,715,347
By Class												
Residential												
Customers	2,869	2,923	2,959	3,002	3,037	3,073	3,103	3,126	3,161	3,190	3,220	3,251
kWh	25,217,181	25,227,824	25,023,794	25,142,788	25,158,787	25,200,723	25,802,534	24,795,447	25,357,835	25,941,256	25,595,036	26,005,466
General Service < 50 kW												
Customers	462	455	455	464	468	479	478	478	474	473	474	476
kWh	12,036,675	11,886,853	11,930,026	11,678,034	11,573,828	11,323,787	11,781,553	11,710,253	12,012,886	11,877,868	11,693,697	11,855,213
General Service 50 to 999 kW												
Customers	40	38	39	41	43	40	38	38	39	38	38	38
kWh	30,016,678	29,919,925	24,233,832	25,169,769	20,973,876	20,890,084	21,438,642	21,823,125	17,140,222	15,634,133	14,360,704	13,489,914
kW	45,546	51,134	72,261	73,818	64,960	62,105	65,571	67,391	53,734	47,684	44,272	41,588
General Service 1000 to 4,999 kW												
Customers	5	5	4	4	5	5	5	5	5	5	5	5
kWh	24,099,432	25,721,661	33,212,587	30,725,657	27,961,217	37,885,731	39,368,359	42,470,244	48,528,024	51,432,197	51,108,488	50,613,209
kW	86,247	90,065	68,832	67,494	72,545	83,945	85,844	89,307	103,015	110,732	109,361	108,301
Street Lights												
Customers	942	942	942	942	900	900	899	898	900	905	905	905
kWh	728,596	731,832	727,707	748,942	738,099	720,757	713,439	715,663	718,528	720,704	723,044	725,392
kW	1,998	2,010	2,007	2,048	2,026	1,981	1,964	1,963	1,978	1,983	1,988	1,995
Sentinel Lights												
Customers	23	23	24	34	31	28	28	28	28	28	29	29
kWh	39,379	38,909	38,081	36,606	33,138	31,636	28,024	26,093	26,093	25,478	24,275	23,128
kW	109	108	106	103	93	88	82	72	72	71	68	65
Unmetered Loads												
Connections	13	13	10	3	2	1	1	1	2	1	1	1
kWh	101,904	101,877	82,586	20,724	7,536	9,732	7,536	7,563	5,733	5,733	4,164	3,024
Total												
Customer/Connections	4,354	4,400	4,432	4,490	4,486	4,526	4,553	4,574	4,607	4,641	4,672	4,704
kWh	92,239,845	93,628,881	95,248,613	93,522,520	86,446,481	96,062,450	99,140,087	101,548,388	103,789,320	105,637,369	103,509,409	102,715,347
kW from applicable classes	133,901	143,317	143,206	143,463	139,624	148,119	153,460	158,734	158,799	160,470	155,690	151,949

Ex.3/Tab 1/Sch.4 - Overview of Load Forecast Methodology

The load forecast presented in this application uses a similar approach as was used in WNP's last Cost of Service application (EB-2011-0249). WNP's forecast is based on a regression model developed based on monthly wholesale purchased kWh from January 2005 to December 2014 as measured at the wholesale point of delivery (exclusive of losses; i.e., not loss adjusted).

While it may sometimes be desirable to isolate demand determinants related to individual rate classes, it is not always possible nor is it necessary to do so especially for smaller utilities such as WNP. In WNP's case, "Metered" or monthly class consumption measured at the retail meter is not available therefore the decision was made to continue working with the same approach as the last cost of service, thus using total monthly wholesale purchases. Many other Distribution Rate Applications considered by the Board have also used this approach and have been approved by the Board in the past.

The methodology proposed in this application predicts wholesale consumption using a regression analysis that relates historical monthly wholesale kWh usage to monthly historical heating degree days and cooling degree days. Heating degree-day provides a measure of how much (in degrees), and for how long (in days), the outside temperature was below that base temperature. The most readily available heating degree days come with a base temperature of 18°C. Cooling degree-day figures also come with a base temperature, and provide a measure of how much, and for how long, the outside temperature was above that base temperature. For degree days, daily observations as reported at Environment Canada's weather station at Mount Forest *(latitude: 43°59'00.000" N; longitude: 80°45'00.000" W, elevation 414.50 metres)* are used. For employment levels, monthly full-time employment for the Kitchener-Waterloo-Barrie area, as reported in Statistics Canada's Monthly Labour Force Survey (CANSIM) has been used. The regression model also uses other variables which are tested to see their relationship and contribution to the fluctuating wholesale purchases. Each variable is discussed in detail later in this section.

Ex.3/Tab 1/Sch.5 - Load Forecast Details

The following section outlines details of the proposed Load Forecast:

Ex.3/Tab 1/Sch.6 - Economic Overview

WNP is projecting customer numbers to steadily increase (growth) in the residential class and virtually no change in all customer classes as illustrated in the table below:

Table 3.4: Customer / Connection Projections

Yearly Average Customer / Connection Count

Customer Class		2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	5 year Average Average	2015 Forecast	2016 Forecast
Residential	*Account*	3,073	3,103	3,126	3,161	3,190	3,131	3,220	3,251
General Service < 50 kW	*Account*	479	478	478	474	473	476	474	476
General Service 50 to 999 kW	*Account*	40	38	38	39	38	39	38	38
General Service 1000 to 4,999 kW	*Account*	5	5	5	5	5	5	5	5
Street Lights	*Connections*	900	899	898	900	905	900	905	905
Sentinel Lights	*Connections*	28	28	28	28	28	28	29	29
Unmetered Loads	*Connections*	1	1	1	2	1	1	1	1

Year-over Year Change by Percentage

Customer Class		2010	2011	2012	2013	2014	5 year Average	2015	2016
Residential	*Account*		0.99%	0.74%	1.09%	0.95%	0.94%	0.94%	0.94%
General Service < 50 kW	*Account*		-0.26%	0.00%	-0.73%	-0.25%	-0.31%	0.26%	0.26%
General Service 50 to 999 kW	*Account*		-3.36%	-1.74%	2.21%	-0.43%	-0.83%	-0.36%	-0.36%
General Service 1000 to 4,999 kW	*Account*		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Street Lights	*Connections*		-0.11%	-0.11%	0.17%	0.61%	0.14%	0.00%	0.00%
Sentinel Lights	*Connections*		0.00%	0.00%	0.00%	0.00%	0.00%	2.21%	2.21%
Unmetered Loads	*Connections*		13.33%	-11.76%	26.67%	-26.32%	0.48%	-23.50%	-23.50%

WNP operates within the Township of Wellington North, servicing 3 urban communities of Arthur, Holstein and Mount Forest. Economic conditions in the Township of Wellington North remain relatively unchanged over the past five years. Upon reviewing the latest Census data (2011), Statistics Canada notes the following about the Township of Wellington North:

a) *"In 2011, Wellington North (Township) had a population of 11,477, representing a percentage change of 2.7% from 2006. This compares to the national average growth of 5.9%."*

b) *"In 2011, the percentage of the population aged 65 and over in Wellington North, was 18.9%, compared with a national percentage of 14.8%. The percentage of the working age population (15 to 64) was 62.7% and the percentage of children aged 0 to 14 was 18.4%. In comparison, the national percentages were 68.5% for the population aged 15 to 64 and 16.7% for the population aged 0 to 14."*

Source: Statistics Canada

The above comments suggest that in Township of Wellington North there has been smaller population growth, has a higher percentage of people over the age of 64, a lower percentage of people of working age (15 to 64) and lower percentage of children (aged 14 or under) when compared to the national average. WNP believes this population composite is a fair reflection in the service territory that the utility manages within the Township of Wellington North.

Housing market activity will largely reflect economic conditions and population growth. Low mortgage rates are expected during the forecast period and will underpin housing sales and housing prices. Housing sales are forecast to slide lower while the average MLS® sale price holds near current levels. In February 2015, it was reported that in the Township of Wellington North, fewer building permits had been issued (at that time) when compared to 2014; however since that date, it has been noted that the number of permits issued has returned to a similar amount comparable to that of 2014.

The above information above supports WNP's outlook and reinforces the Applicant's view that customer numbers to steadily increase in the Residential Class. Table 3.4 showed that this customer class has seen an average increase of just below 1% (0.94%) from 2010 to 2014.

The region's manufacturing base, in terms of number of companies, has declined over the past decade, reflecting a broader industry trend evident in other Ontario regions. It also reflects the challenges faced in most parts of rural Ontario and Canada with its relatively narrow economic base and concentration in slow growing or declining industries. Its younger residents are increasingly drawn to larger urban centers leaving a relatively older population. In WNP's opinion, the service area has seen the customer base for General Service 50-999 kW and General Service 1,000 to 4,999 kW remaining steady over the past few years, as reflected in Table 3.4. The three manufacturing customers (consisting of 5 accounts in Table 3.4) in the General Service 1,000 to 4,999 kW were affected by the 2008/2009 Economic downturn in the global economy, affecting their production levels and shift-patterns. WNP has observed these customers load patterns steadily increasing, to the extent that one of the customers is seeking an increase in their kW demand at their plant. This customer's specific demand increase is referenced in a letter to the utility and included in WNP's 2015 Distribution System Plan in Exhibit 2 as Appendix 2A:"Stakeholder Letters supporting the second feeder" to the town of Mount Forest (Appendix 5E of the DSP).

The Township of Wellington North Economic Development Committee continues to promote and look for opportunities to encourage new businesses to the area. Regrettably, there has been a reduction of small business (General Services <50kW) over the past five years and this is also reflected in Table 3.4. WNP has projected a steady customer count for this rate class over the forecast period.

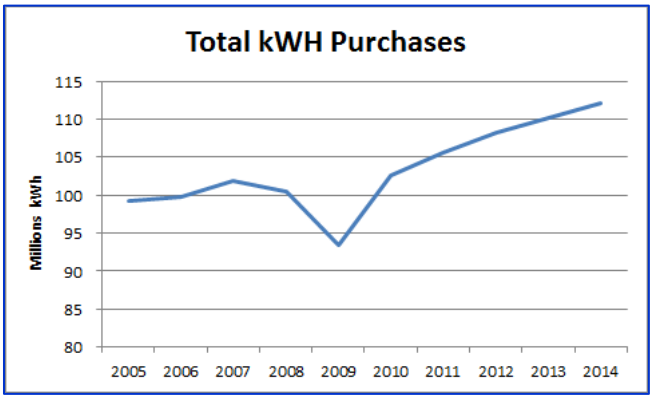
Ex.3/Tab 1/Sch.7 - Overview of Wholesale Purchases

WNP purchases its power from the Independent Electricity Systems Operator (IESO). The following tables summarize the unadjusted monthly kWh wholesale purchases:

Table 3.5: Unadjusted Wholesale kWh Purchases 2004-2013

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
January	9,511,622	9,308,926	9,471,440	9,724,722	8,778,546	9,555,507	9,903,507	9,969,659	10,228,961	10,799,725
February	8,356,417	8,675,458	8,867,908	9,282,696	7,661,282	8,513,222	9,130,223	9,266,795	9,383,922	9,710,845
March	8,891,064	9,235,190	9,202,851	9,335,764	8,189,544	8,793,380	9,825,256	9,409,618	9,829,034	10,397,444
April	7,665,148	7,771,829	8,276,828	8,210,709	7,376,418	7,779,667	8,000,503	8,519,455	8,360,602	9,186,100
May	7,570,243	8,018,637	8,110,169	7,883,595	6,711,504	8,100,891	7,972,210	8,612,164	8,890,829	9,013,757
June	7,982,091	7,829,938	8,194,020	7,787,375	6,849,734	7,984,499	7,947,472	8,638,914	8,539,244	8,560,168
July	7,604,890	7,512,883	7,703,200	7,815,607	6,821,425	8,350,976	8,282,741	8,769,534	8,808,585	8,459,289
August	8,306,210	7,987,541	8,380,226	7,810,492	7,581,948	8,692,122	8,881,989	9,201,513	8,890,441	8,922,514
September	7,686,742	7,570,669	7,710,376	7,677,287	7,570,598	8,099,924	8,383,667	8,451,029	8,502,958	8,881,019
October	8,151,171	8,459,920	8,336,948	8,247,980	8,346,682	8,501,568	8,946,252	9,155,016	9,300,423	9,391,767
November	8,457,765	8,646,179	8,743,245	8,166,427	8,386,159	8,832,882	8,876,428	9,016,280	9,558,856	9,369,360
December	8,994,173	8,709,606	8,907,988	8,567,606	9,141,543	9,403,627	9,391,756	9,266,738	9,800,086	9,427,476
Total	**99,177,535**	**99,726,775**	**101,905,199**	**100,510,261**	**93,415,382**	**102,608,265**	**105,542,005**	**108,276,715**	**110,093,942**	**112,119,465**
Change year-over-year		0.6%	2.2%	-1.4%	-7.1%	9.8%	2.9%	2.6%	1.7%	1.8%

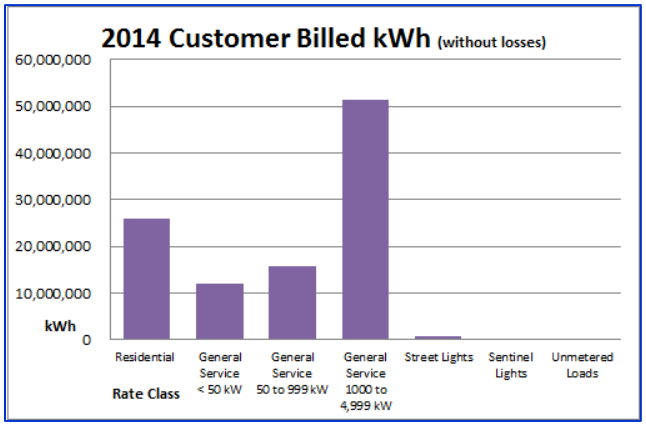
Table 3.6: Trend of Unadjusted Wholesale kWh Purchases 2004-2013



WNP's load has been steadily rising over the ten year period (2005 - 2014) with wholesale purchases increasing by 13% between 2005 to 2014. This rise is due to the increase in energy consumption by the General Service 1000 to 4999 kW customer class, particularly since 2011. This class alone, with 5 accounts, makes up 49% of the WNP's annual kWh billed quantity.

Table 3.7 below illustrates WNP's billed kWh energy volume (without losses) by customer class for 2014:

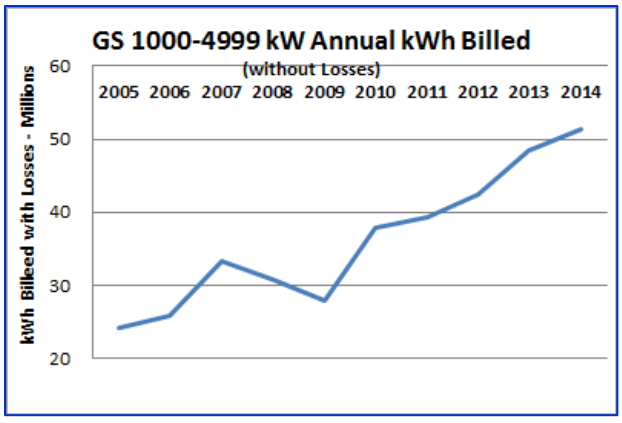
Table 3.7: 2014 Customer Billed kWh (without Losses)



Customer Class	Billed kWh	% of Total Billed
Residential	25,941,256	25%
General Service < 50 kW	11,877,868	11%
General Service 50 to 999 kW	15,634,133	15%
General Service 1000 to 4,999 kW	51,432,197	49%
Street Lights	720,704	1%
Sentinel Lights	25,478	0%
Unmetered Loads	5,733	0%
2014 Total Customer Billed kWh (without losses)	**105,637,369**	

The reduction in the kWh purchases shown in table 3.6 between the years of 2008 and 2009 reflects the Economic Downturn as a result of the Global Recession between these years. During this time, the General Service 1,000 – 4999kW customer class reduced by nearly 10% per year compared to prior years as shown below:

Table 3.8: General Service 1000 – 4999kW – Impact of Global Recession



General Service 1000 - 4999 kW			
	Annual kWh Billed without Losses	Change year-over year	
2005	24,099,432		
2006	25,721,661	1,622,229	6.7%
2007	33,212,587	7,490,926	29.1%
2008	30,725,657	(2,486,930)	-7.5%
2009	27,961,217	(2,764,440)	-9.0%
2010	37,885,731	9,924,514	35.5%
2011	39,368,359	1,482,629	3.9%
2012	42,470,244	3,101,885	7.9%
2013	48,528,024	6,057,780	14.3%
2014	51,432,197	2,904,173	6.0%

To better represent the trend in wholesale purchases, WNP has adjusted its base wholesale purchases prior to running the regression analysis. The purpose of the adjustment was to normalize the data as best as possible. The following adjustment was made to the wholesale purchases:

- WNP adjusted the wholesale purchases to add back all MicroFIT and FIT (Feed-in tariff) generation kWh data. This adjustment was made because the generated kWh volume is

consumed within the utility's service territory. If there was no generation activity, then the WNP's wholesale purchases would have been higher in order to customer demand. Therefore, generation data is "added-back" to the IESO kWh wholesale purchases to reflect energy demand of WNP's territory.

- WNP has no (0) Wholesale Market Participant (WMP) customers so there were no wholesale adjustments required for this customer class

Table 3.9 below summarizes the kWh generated from WNP's MicroFIT and FIT customers:

Table 3.9: MicroFIT / FIT Generated kWh Volumes

	MicroFIT / FIT Generated kWh	MicroFIT accounts	FIT accounts
2011	83,693	7	
2012	135,101	12	
2013	220,117	18	
2014	301,047	18	1

The adjustments that were added to the actual wholesale purchases by month to reflect the adding back of kWh generated volume is illustrated in Table 3.10 below:

Table 3.10: MicroFIT / FIT Generated kWh Volumes

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
January							65	2,638	4,706	2,439
February							1,664	4,659	2,407	2,992
March							5,312	10,173	15,410	13,924
April							7,099	13,281	23,775	25,104
May							6,194	16,576	33,327	32,010
June							9,229	16,383	31,146	48,617
July							22,629	16,817	24,908	52,243
August							10,674	20,048	30,729	46,971
September							8,059	16,364	25,519	39,980
October							6,054	8,530	17,141	20,846
November							4,891	6,433	8,804	7,638
December							1,825	3,199	2,247	8,282
Total kWh Adjustment	**0**	**0**	**0**	**0**	**0**	**0**	**83,693**	**135,101**	**220,117**	**301,047**

The final results for WNP's Adjusted Wholesale Purchased are summarized below in Table 3.11. The "Adjusted kWh Wholesale Purchases" represented in the this table were used in WNP's regression analysis

Table 3.11: Adjusted kWh Wholesale Purchases for 2005 to 2014

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
January	9,511,622	9,308,926	9,471,440	9,724,722	8,778,546	9,555,507	9,903,572	9,972,298	10,233,667	10,802,165
February	8,356,417	8,675,458	8,867,908	9,282,696	7,661,282	8,513,222	9,131,887	9,271,454	9,386,329	9,713,837
March	8,891,064	9,235,190	9,202,851	9,335,764	8,189,544	8,793,380	9,830,569	9,419,790	9,844,444	10,411,368
April	7,665,148	7,771,829	8,276,828	8,210,709	7,376,418	7,779,667	8,007,602	8,532,736	8,384,378	9,211,204
May	7,570,243	8,018,637	8,110,169	7,883,595	6,711,504	8,100,891	7,978,404	8,628,741	8,924,156	9,045,768
June	7,982,091	7,829,938	8,194,020	7,787,375	6,849,734	7,984,499	7,956,701	8,655,297	8,570,390	8,608,785
July	7,604,890	7,512,883	7,703,200	7,815,607	6,821,425	8,350,976	8,305,370	8,786,351	8,833,492	8,511,532
August	8,306,210	7,987,541	8,380,226	7,810,492	7,581,948	8,692,122	8,892,663	9,221,561	8,921,170	8,969,486
September	7,686,742	7,570,669	7,710,376	7,677,287	7,570,598	8,099,924	8,391,725	8,467,393	8,528,477	8,920,999
October	8,151,171	8,459,920	8,336,948	8,247,980	8,346,682	8,501,568	8,952,307	9,163,547	9,317,564	9,412,613
November	8,457,765	8,646,179	8,743,245	8,166,427	8,386,159	8,832,882	8,881,318	9,022,713	9,567,660	9,376,999
December	8,994,173	8,709,606	8,907,988	8,567,606	9,141,543	9,403,627	9,393,581	9,269,936	9,802,333	9,435,758
Total kWh Adjustment	**99,177,535**	**99,726,775**	**101,905,199**	**100,510,261**	**93,415,382**	**102,608,265**	**105,625,698**	**108,411,817**	**110,314,060**	**112,420,512**

The "Adjusted kWh Wholesale Purchases" represented in the above table were used in WNP's regression analysis.

On reviewing WNP's "Adjusted kWh Wholesale Purchases" for the latest five-year period 2011 to 2014, there are external factors that have influenced the kWh values for some of the months.

Table 3.12: Adjusted kWh Wholesale Purchases by Month for 2010 - 2014

kWh Purchased	2010	2011	2012	2013	2014
Jan	9,555,507	9,903,572	9,972,298	10,233,667	10,802,165
Feb	8,513,222	9,131,887	9,271,454	9,386,329	9,713,837
Mar	8,793,380	9,830,569	9,419,790	9,844,444	10,411,368
Apr	7,779,667	8,007,602	8,532,736	8,384,378	9,211,204
May	8,100,891	7,978,404	8,628,741	8,924,156	9,045,768
Jun	7,984,499	7,956,701	8,655,297	8,570,390	8,608,785
Jul	8,350,976	8,305,370	8,786,351	8,833,492	8,511,532
Aug	8,692,122	8,892,663	9,221,561	8,921,170	8,969,486
Sep	8,099,938	8,391,725	8,467,393	8,528,477	8,920,999
Oct	8,501,578	8,952,307	9,163,547	9,317,564	9,412,613
Nov	8,832,882	8,881,318	9,022,713	9,567,660	9,376,999
Dec	9,403,627	9,393,581	9,269,936	9,802,333	9,435,758
Total	**102,608,289**	**105,625,698**	**108,411,817**	**110,314,060**	**112,420,512**

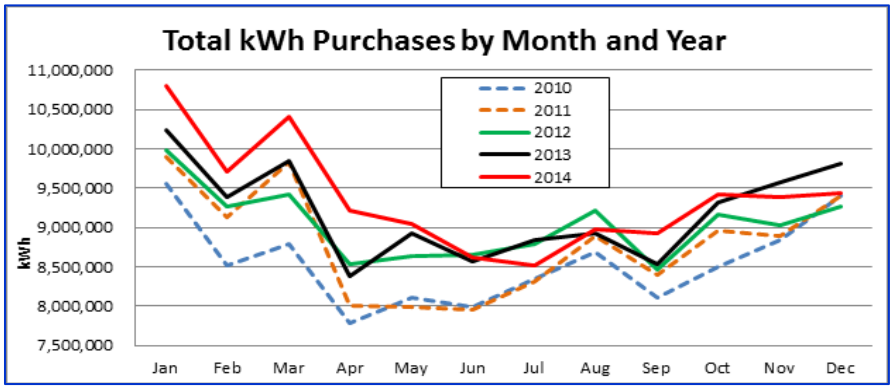
Note: The monthly kWh purchases above include the addition of generation data

In the above table, the shaded months represent events that contributed to the continual increase in the WNP's kWh IESO energy purchases:

- 2011 Jan – Mar: kWh purchases for these months are 4%, 7% and 12% higher than the same months of the previous year. WNP noted that in the service area, three manufacturing customers' energy usage was steadily increasing and indicating signs of recovery from the 2008/2009 Global Recession – such customers had reduced shift patterns resulting in lower usage since October 2008.
- 2012 Apr – Aug: WNP noted that these months recorded higher than normal weather temperatures and assumes that air-conditioning and cooling units were running earlier and longer than under "normal conditions" weather conditions. Also, WNP observed that during this period, the manufacturing customers in the area energy usage had increased, again a further sign of post-Global recession recovery.
- 2013 Jan - Mar & Nov – Dec: Seasonal weather temperatures were lower than normal averages. On April 12th and 13th, a major Ice Storm caused power outages in WNP's service area of Mount Forest and Holstein with an outage from 3:00am to 9:20pm (18 hours) due to downed Hydro One 44KV power line that supplies these communities. There were numerous tree related issues in WNP's system, largely on the secondary side; however, WNP was fairly fortunate given the severity of the storm. There was another power outage on December 22nd in WNP's service area of Arthur caused by another winter ice-storm – this outage lasted three hours.
- 2014 Jan – Apr: WNP noted that temperatures for these months were lower than normal, particularly March and April.

The chart below illustrates the monthly kWh purchases and shows the variances month-by-month over the 5-year period:

Table 3.13: Adjusted kWh Wholesale Purchases by Month for 2010 - 2014



Ex.3/Tab 1/Sch.8 - Overview of Variables Used

In WNP's situation, variation in monthly electricity consumption is influenced by five main factors:

a) Weather (e.g. heating and cooling) which is by far the most dominant effect for most systems;
b) Number of days per month;
c) Number of Peak Hours;
d) Employment factors (increases or decreases in economic activity leads to changes in employment); and
e) Sensitive customers – these are the large manufacturing customers (5 accounts) in the General Service 1000 – 4999 kW class who account for nearly 50% of WNP's load and in the past, have been "sensitive" to external conditions. For example, these customers altered their shift pattern as a consequence of the 2008/2009 Global Recession which in-turn affected WNP's IESO kWh wholesale purchases.

Specifics relating to each variable used in the regression analysis are presented at the next section.

a) Heating and Cooling:

In order to determine the relationship between observed weather and energy consumption, monthly weather observations describing the extent of heating or cooling required within the month are necessary. Environment Canada publishes monthly observations on heating degree days (HDD) and cooling degree days (CDD) for selected weather stations across Canada. Heating degree-days for a given day are the number of Celsius degrees that the mean temperature is below 18°C. Cooling degree-days for a given day are the number of Celsius degrees that the mean temperature is above 18°C. For WNP, the monthly HDD and CDD as reported at Environment Canada's weather station at Mount Forest *(latitude: 43°59'00.000" N; longitude: 80°45'00.000" W, elevation 414.50 metres)* was used.

WNP has adopted the 10 year average from 2005 to 2014 as the definition of weather normal. WNP's view is that a ten-year average based on the most recent ten calendar years available is a reasonable compromise that likely reflects the "average" weather experienced in recent years. This is consistent with the Board's filing requirements for weather normalization methodology as

described in Chapter 2 Cost of Service filing requirements (page 30) and many other LDCs have also adopted this definition for the purposes of cost-of-service rebasing.

The following table outlines the monthly weather data used in the regression analysis. WNP's regression analysis was performed over 10 year period of 2005 to 2014 and therefore the data for 1995 to 2004 (shown below) was not used in the regression analysis; however, the 20-year data was used to determine the 20-year forecast as represented in table 3.24.

Table 3.14: HDD and CDD as reported at Mount Forest, ON. Weather Station

Heating Degree Day (HDD)												
Heating Degree Days	January	February	March	April	May	June	July	August	September	October	November	December
1995	721.40	790.10	591.50	500.50	221.40	50.70	33.70	14.00	185.80	289.00	596.80	797.50
1996	860.60	767.60	733.90	482.10	266.80	53.64	25.60	23.70	136.00	331.07	584.60	649.53
1997	831.26	685.93	686.20	409.33	332.20	33.37	30.00	69.58	126.53	295.88	515.00	645.60
1998	670.20	576.06	569.03	298.27	77.79	106.72	42.79	33.90	101.13	298.97	452.80	586.36
1999	797.42	599.10	619.57	354.30	143.53	90.11	19.23	61.83	84.11	333.55	437.63	671.50
2000	800.40	673.60	493.17	413.13	196.00	78.40	50.80	42.80	165.90	280.20	506.57	845.01
2001	754.00	679.70	681.30	369.90	172.20	79.00	51.40	17.00	165.80	298.22	387.70	568.27
2002	722.56	663.30	625.77	390.73	297.70	69.20	16.68	26.90	67.37	371.10	531.60	701.30
2003	902.08	798.60	661.20	420.64	239.47	81.70	25.70	24.60	111.30	333.00	447.90	649.40
2004	913.20	701.70	575.90	377.40	221.70	104.15	30.60	71.90	83.90	290.60	445.90	729.10
2005	829.30	691.00	708.10	357.60	244.50	26.90	13.60	11.80	68.20	273.60	445.50	721.80
2006	626.30	693.70	613.60	328.40	176.50	59.70	8.60	39.90	145.00	351.80	420.90	569.80
2007	729.30	793.80	593.10	424.30	170.30	55.50	34.00	26.30	83.90	189.20	525.90	696.20
2008	693.80	736.00	698.00	299.10	263.10	50.30	19.40	32.23	98.80	329.80	516.60	733.60
2009	901.40	679.40	597.00	361.70	219.60	99.10	61.20	43.00	110.20	345.30	396.20	698.60
2010	791.50	680.10	504.70	273.20	148.20	55.23	12.70	19.30	137.00	301.00	439.27	744.30
2011	866.50	720.40	660.10	379.30	168.10	64.10	3.70	13.60	106.33	276.60	399.40	609.80
2012	694.60	611.40	388.70	399.00	123.80	56.40	0.40	22.50	134.70	292.20	505.72	590.90
2013	703.37	699.60	649.00	414.20	160.67	67.40	19.60	33.90	133.10	270.69	557.37	767.20
2014	899.70	820.97	767.16	423.07	185.60	36.00	59.10	40.50	117.20	292.40	548.07	623.73
10 - Year Average	773.58	712.64	617.95	365.99	186.04	57.06	23.23	28.30	113.44	292.26	475.49	675.59
20 - Year Average	785.44	703.10	620.85	383.81	201.46	65.88	27.94	33.46	118.11	302.21	483.07	679.98
20 Year Trend	790.89	716.34	608.20	357.33	170.46	59.71	22.54	28.68	108.24	289.86	465.89	669.63

Cooling Degree Day (HDD)												
Cooling Degree Days	January	February	March	April	May	June	July	August	September	October	November	December
1995	0.00	0.00	0.00	0.00	0.00	49.20	66.70	68.70	4.30	0.00	0.00	0.00
1996	0.00	0.00	0.00	0.00	5.80	21.00	24.40	31.90	7.70	0.00	0.00	0.00
1997	0.00	0.00	0.00	0.00	0.00	25.50	52.60	19.24	3.30	0.60	0.00	0.00
1998	0.00	0.00	0.00	0.00	18.73	32.78	34.27	42.10	5.56	0.00	0.00	0.00
1999	0.00	0.00	0.00	0.00	6.80	49.24	88.10	13.13	20.51	2.70	0.00	0.00
2000	0.00	0.00	0.00	0.00	10.90	19.80	22.60	39.62	13.80	0.00	0.00	0.00
2001	0.00	0.00	0.00	0.00	4.50	37.60	44.80	56.50	13.40	0.00	0.00	0.00
2002	0.00	0.00	0.00	5.00	3.90	43.30	91.52	44.60	43.17	3.70	0.00	0.00
2003	0.00	0.00	0.00	0.30	0.00	17.60	40.00	54.40	9.50	0.00	0.00	0.00
2004	0.00	0.00	0.00	0.00	7.50	15.70	35.30	24.40	20.40	0.00	0.00	0.00
2005	0.00	0.00	0.00	0.20	0.60	98.50	85.30	62.10	22.60	9.40	0.00	0.00
2006	0.00	0.00	0.00	0.00	21.20	29.30	96.50	35.30	2.80	0.00	0.00	0.00
2007	0.00	0.00	0.00	0.00	16.10	46.30	43.40	57.20	29.40	15.20	0.00	0.00
2008	0.00	0.00	0.00	1.40	0.30	44.80	55.10	28.40	4.50	0.00	0.00	0.00
2009	0.00	0.00	0.00	0.00	2.00	15.50	10.30	48.10	7.50	0.00	0.00	0.00
2010	0.00	0.00	0.00	1.00	24.00	18.70	89.70	82.00	15.50	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	12.80	16.40	104.30	53.30	20.70	0.30	0.00	0.00
2012	0.00	0.00	3.40	0.00	17.40	57.10	94.00	50.70	15.30	0.00	0.00	0.00
2013	0.00	0.00	0.00	0.00	18.70	35.00	75.90	34.50	17.20	0.00	0.00	0.00
2014	0.00	0.00	0.00	0.00	7.60	44.00	25.70	32.40	12.40	0.00	0.00	0.00
10 - Year Average	0.00	0.00	0.34	0.26	12.07	40.56	68.02	48.40	14.79	2.49	0.00	0.00
20 - Year Average	0.00	0.00	0.17	0.40	8.94	35.87	59.02	43.93	14.48	1.60	0.00	0.00
20 Year Trend	0.00	0.00	0.53	0.36	14.26	37.36	70.35	48.59	17.56	1.82	0.00	0.00

b) Number of days per month:

WNP also used a "Days per month" variable because this identifies seasonal peaks and less/more days in calendar months.

c) Number of Peak Hours:

Peak hours refers to the times highest electricity use over the course of the day. WNP calculated this by multiplying 16 hours by the number of business day in any given month (excluding weekends and holidays.)

d) Employment Factor:

In order to measure the change in economic activity, a data series must be chosen which represents, as much as possible, regional economic activity. WNP used the monthly full-time employment levels for the economic region of Kitchener-Waterloo-Barrie in Ontario as reported in Statistics Canada's Monthly Labour Force Survey (CANSIM). This variable was included because, as per the Economic Outlook in Exhibit 3 / Tab 1 Schedule 6, the Township of Wellington North has a lower percentage of people of working age (15 to 64) when compared to the national average and the level of employment is a good indicator of growth in a region.

The table below outlines the full-time employment levels for the WNP's economic region which were used in the regression analysis to predict WNP's load forecast.

Table 3.15: Full-Time Employment Levels for the WNP's Economic Region

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
2005	629.8	631.3	628.7	631.7	639.3	648.6	653.6	655.8	652.3	649.7	643.8	644.5
2006	643.2	642.4	640.8	643.5	652.4	659.9	664.5	666.4	663.9	666.2	665.4	666.5
2007	660.7	654.8	650.2	645.1	644.4	649.6	657.2	659.2	657.8	659.2	662.8	664.0
2008	656.3	651.2	642.3	642.3	642.5	648.2	653.5	656.2	658.8	661.5	664.7	662.1
2009	651.4	639.4	627.6	623.9	622.7	632.1	637.9	643.0	643.3	644.9	642.2	639.1
2010	633.6	630.5	627.5	631.6	641.5	657.2	669.8	672.0	665.1	657.2	655.2	653.3
2011	649.3	651.2	657.1	666.4	671.5	681.8	691.5	694.9	688.6	682.2	677.0	676.6
2012	670.9	668.7	666.0	667.4	672.1	678.4	682.0	678.5	671.9	672.8	676.8	682.7
2013	681.6	682.6	683.6	685.4	690.3	696.7	702.8	701.4	698.4	698.4	700.0	695.4
2014	689.4	682.3	680.2	679.4	690.0	704.4	715.1	718.7	719.3	723.5	721.0	714.3

e) Sensitive customers:

Lastly, WNP also used a "Sensitive Customers" variable which consists of the two manufacturing customers comprising of three accounts (in the rate class of GS 1000-4999kW.) These customers energy usage make-up a significant portion of WNP's total annual billed volumes; for example these accounts in 2014 kWh billed (without losses) was 38,287,673 with WNP's 2014 kWh billed for the whole year being 104,009,438, meaning these customers accounted for 37% of the annual kWh total.) These customers are also "sensitive" to economic climate, as demonstrated in the 2008/2009 Global Recession when they altered their load and shift patterns.

In WNP's 2012 Cost of Service rate application (EB-2011-0249), Exhibit 3 / Tab 2 / Schedule 1 described how the utility "*removed data for three specific accounts from the analysis due to their negative effect on the results of the regression analysis. All three accounts are in the GS>1000-4999KW customer class and Wellington North Power Inc. used experience and knowledge of these customers' historical loads to predict their usage for the [2011] Bridge and [2012] Test Years".*

In this rate application, WNP has included the two customers in the regression analysis and created a variable based on their monthly billed kWh (without losses) as shown in the table below:

Table 3.16: Two "Sensitive" Customers Monthly Billed kWh (without losses)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
January	2,182,080	2,472,594	2,589,945	2,456,376	1,386,993	2,212,167	2,435,984	2,658,660	2,663,297	3,591,070
February	1,993,852	2,310,391	2,252,054	2,386,869	1,278,828	1,973,695	2,335,707	2,606,186	2,593,943	3,355,559
March	2,205,155	1,992,557	2,516,372	2,419,561	1,599,507	2,333,570	2,656,454	2,834,712	3,306,865	3,697,222
April	2,114,232	2,226,306	2,339,264	2,444,892	1,681,721	2,176,410	2,129,747	2,633,018	3,534,195	3,495,243
May	2,253,270	2,485,845	1,984,082	2,238,851	1,481,789	2,343,664	2,308,697	2,706,007	3,535,885	3,735,523
June	2,281,684	2,396,646	2,548,910	2,213,271	1,480,618	2,300,956	2,359,470	2,685,183	3,252,316	3,380,284
July	2,007,717	1,843,099	2,218,405	1,931,221	1,533,239	2,325,624	2,118,772	2,558,193	3,233,446	3,371,786
August	2,642,122	2,395,515	2,709,924	2,204,584	1,842,378	2,526,908	2,641,948	2,997,632	3,561,255	3,631,166
September	2,443,235	2,221,638	2,380,021	1,694,540	2,152,613	2,397,724	2,553,255	2,565,639	3,380,657	3,632,294
October	2,551,307	2,363,022	2,409,927	2,236,506	2,250,006	2,469,206	2,742,886	2,767,217	3,717,267	3,765,533
November	2,348,015	2,449,494	2,296,536	1,816,146	2,214,423	2,399,219	2,504,779	2,460,499	3,481,017	2,869,684
December	1,979,574	2,072,506	1,866,638	1,318,681	1,953,857	2,171,049	2,369,547	2,224,568	3,058,379	2,503,707
Total kWh Adjustment	**27,002,242**	**27,229,613**	**28,112,078**	**25,361,499**	**20,855,974**	**27,630,193**	**29,157,246**	**31,697,514**	**39,318,522**	**41,029,070**

Using a combination of wholesale purchases and the variables listed above, a multiple regression analysis was used to develop an equation describing the relationship between monthly actual wholesale kWh and the explanatory variables. WNP also used a correlation function to examine the relationship between the variables included in the analysis. The results

of the correlation analysis for each scenario can also be found at Tab 6.1 entitled Regression Scenarios.

To project the adjusted wholesale purchases for the 2015 Bridge Year and 2016 Test Year, the model uses for the following mathematical conventions:

Variable	Convention Applied to 2015 Bridge and 2016Test Years
a) Heating and Cooling:	Used 10-year monthly average applied to both 2015 and 2016
b) Number of days per month:	Identifies seasonal peaks and less/more days in calendar months
c) Number of Peak Hours:	16 hours x number of business days in any given month excluding weekends and holidays
d) Employment Factor:	Used the average based on 2013 and 2014 actuals. (Using an average of three or more years distorts the figures to below 2014 actuals, largely because of the years 2008 & 2009 due to the recession, and steady recovery in years 2010 & 2011)
e) Sensitive customers:	Used a 10-year trend on the actual monthly billed kWh (without losses) values. A 10-year trend was used rather than a 10 year average as per note below.

Note:

Regarding variable (e) Sensitive customers, WNP used a 10 year trend of the actual monthly billed kWh (without losses) data for 2005 to 2014 for the two “sensitive’ customers. By using the trending method, this lessened the impact of historic recession data (2008 to 2010) influencing the predicted purchases for the Bridge Year of 2015 and Test Year of 2016.

The table below shows the implications of applying a 10 year average to the actual monthly billed kWh (without losses) data for 2005 to 2014 for the two “sensitive’ customers. Using the 10-year average, the predicted kWh purchases are 105,761910 kWh and 105,964,177 kWh for 2015 Bridge Year and 2016 Test Year which, in WNP’s is a low and unreasonable forecast. By applying the 10 year trend, the forecast is more reasonable and acceptable.

Table 3.17: Comparison of applying 10-year Trend and 10-year Average to Two "Sensitive" Customers Purchased kWh Purchased Variable

	Heating Degree Day	Cooling Degree Day	Number of Days in Month	Number of Peak Hours	Regional Employment	Sensitive Customers (Purchased kWh)	Predicted Purchases	
Jan-15	170.30	16.10	31	352	653.50	1,931,221.32	9,786,540	
Feb-15	55.50	46.30	31	320	656.20	2,204,584.23	8,974,531	
Mar-15	34.00	43.40	30	336	658.80	1,694,540.21	9,492,505	
Apr-15	26.30	57.20	31	352	661.50	2,236,505.91	8,504,754	
May-15	83.90	29.40	30	304	664.70	1,816,145.52	8,321,963	
Jun-15	189.20	15.20	31	336	662.10	1,318,681.40	8,289,130	
Jul-15	525.90	0.00	31	336	651.40	1,386,993.43	8,412,349	
Aug-15	696.20	0.00	28	304	639.40	1,278,827.90	8,459,016	
Sep-15	693.80	0.00	31	352	627.60	1,599,507.15	8,238,816	
Oct-15	736.00	0.00	30	320	623.90	1,681,721.41	8,869,351	
Nov-15	698.00	0.00	31	320	622.70	1,481,788.71	8,967,661	2015 Total
Dec-15	299.10	1.40	30	352	632.10	1,480,617.89	9,445,293	105,761,910
Jan-16	170.30	16.10	31	352	637.90	1,533,239.47	9,711,536	
Feb-16	55.50	46.30	31	320	643.00	1,842,378.49	9,176,798	
Mar-16	34.00	43.40	30	336	643.30	2,152,613.22	9,417,501	
Apr-16	26.30	57.20	31	336	644.90	2,250,006.43	8,579,758	
May-16	83.90	29.40	30	320	642.20	2,214,423.39	8,396,967	
Jun-16	189.20	15.20	31	352	639.10	1,953,856.93	8,289,130	
Jul-16	525.90	0.00	31	320	633.60	2,212,166.71	8,337,345	
Aug-16	696.20	0.00	28	304	630.50	1,973,695.14	8,609,025	
Sep-16	693.80	0.00	31	368	627.50	2,333,569.57	8,238,816	
Oct-16	736.00	0.00	30	320	631.60	2,176,410.28	8,794,346	
Nov-16	698.00	0.00	31	320	641.50	2,343,664.32	9,042,666	2016 Total
Dec-16	299.10	1.40	30	352	657.20	2,300,956.26	9,370,289	105,964,177
						10 yr Average		

	Heating Degree Day	Cooling Degree Day	Number of Days in Month	Number of Peak Hours	Regional Employment	Sensitive Customers (Purchased kWh)	Predicted Purchases	
Jan-15	43.00	48.10	31	320	657.20	1,984,082.33	10,199,223	
Feb-15	110.20	7.50	30	336	655.20	2,548,909.59	9,498,732	
Mar-15	345.30	0.00	31	368	653.30	2,218,405.13	9,864,342	
Apr-15	396.20	0.00	31	336	649.30	2,709,923.62	8,938,138	
May-15	698.60	0.00	28	304	651.20	2,380,020.99	8,745,562	
Jun-15	791.50	0.00	31	368	657.10	2,409,926.87	8,735,200	
Jul-15	680.10	0.00	30	320	666.40	2,296,535.83	8,984,058	
Aug-15	504.70	0.00	31	336	671.50	1,866,637.68	8,779,174	
Sep-15	273.20	1.00	30	352	681.80	2,456,376.39	8,687,029	
Oct-15	148.20	24.00	31	320	691.50	2,386,869.04	9,211,344	
Nov-15	55.23	18.70	31	368	694.90	2,419,561.23	9,482,811	2015 Total
Dec-15	12.70	89.70	30	336	688.60	2,444,891.81	10,189,287	111,314,900
Jan-16	43.00	48.10	31	320	682.20	1,984,082.33	10,124,219	
Feb-16	110.20	7.50	30	352	677.00	2,548,909.59	9,701,000	
Mar-16	345.30	0.00	31	336	676.60	2,218,405.13	9,789,338	
Apr-16	396.20	0.00	31	336	670.90	2,709,923.62	9,013,142	
May-16	698.60	0.00	29	304	668.70	2,380,020.99	8,820,566	
Jun-16	791.50	0.00	31	352	666.00	2,409,926.87	8,735,200	
Jul-16	680.10	0.00	30	304	667.40	2,296,535.83	8,909,054	
Aug-16	504.70	0.00	31	352	672.10	1,866,637.68	8,929,183	
Sep-16	273.20	1.00	30	336	678.40	2,456,376.39	8,687,029	
Oct-16	148.20	24.00	31	336	682.00	2,386,869.04	9,136,339	
Nov-16	55.23	18.70	31	352	678.50	2,419,561.23	9,557,815	2016 Total
Dec-16	12.70	89.70	30	304	671.90	2,444,891.81	10,114,283	111,517,168
						10 yr Trend		

The table below shows the sources of data used for the variables used in WNP"s Load Forecast:

Table 3.18: Origin of Variables:

Variable	Contention Applied to Bridge and Test Year
a) Heating and Cooling Days:	Environment Canada (http://climate.weather.gc.ca/) for Mount Forest weather station
b) Number of days per month:	Used actual count of days per month for 2015 and 2016
c) Number of Peak Hours:	Used actual count of days per month for 2015 and 2016
d) Employment Factor:	Stats Canada (http://www5.statcan.gc.ca/cansim/a47) using CANSIM Table 282-01222 for the region of "Kitchener-Waterloo-Barrie, Ontario"
e) Sensitive customers:	Used utility actual data

In preparing its Load Forecast, WNP also considered but rejected the following variables:

a) Customer / Connection Count – this was excluded because the variable did not yield particularly significant results although it did slightly improve the R Square [*Scenario 5*];
b) GDP this was also excluded because the variable did not yield particularly significant results although it did slightly improve the R Square [*Scenario 6*]; and
c) CDM - this was excluded because the variable a positive coefficient of 0.78; this variable should yield a negative coefficient since CDM should reduce usage [*Scenario 7*].

The eight scenarios tested by the WNP and their outcomes can be found in Appendix 3B – "Regression Scenarios Performed."

Ex.3/Tab 1/Sch.9 - Regression Results

Table 3.19 below presents the regression results used to determine the load forecast:

Table 3.19: Correlation/Regression Results

Regression Statistics						
Multiple R	94.47%					
R Square	89.25%					
Adjusted R Square	88.68%					
Standard Error	255610.2042					
Observations	120					
ANOVA						
	df	*SS*	*MS*	*F*	*Significance F*	
Regression	6	6.13268E+13	1.02211E+13	156.4380253	2.46941E-52	
Residual	113	7.38303E+12	65336576513			
Total	119	6.87098E+13				
	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*
Intercept	(3588861.8441)	1277978.547	(2.808233247)	0.005870299	-6120767.841	-1056955.847
Heating Degree Da	2626.8640	117.5957243	22.338091051	2.92267E-43	2393.885657	2859.842336
Cooling Degree Da	8088.4261	1264.580622	6.396133201	3.72007E-09	5583.06381	10593.78839
Number of Days in	127263.5509	31975.41157	3.980044185	0.00012212	63914.49348	190612.6083
Number of Peak Hc	4687.7598	1425.236522	3.289110037	0.001340451	1864.109145	7511.410357
Regional Employm	6161.9666	1586.58174	3.883800247	0.00017364	3018.661971	9305.271134
Sensitive Customer	0.6487	0.065218188	9.946886171	4.01315E-17	0.519508898	0.777926884

The resulting regression equation yields an adjusted R-squared of 88.68%. When actual annual wholesale values are compared to annual values predicted by the regression equation, the mean absolute percentage error (MAPE) is 1.54%.

The prediction formula has the following statistical results:

Table 3.20: Regression Results

Statistic	Value
R Square	89.25%
Adjusted R Sq	88.68%
F Test	156.44
T-stats by Coefficient:	
a) Intercept	(2.808)
b) Heating Degree Days	22.338
c) Colling Degree Days	6.396
d) Number of Days in Month	3.980
e) Number of Peak Hours	3.289
f) Regional Employment	3.884
g) Sensitive Customers	9.947

Once WNP calculated its preferred Regression Results, the Load Forecast model then uses the coefficients from the regression results to adjust the wholesale purchases. Table 3.21 provides a graph illustrating the difference between Actual Purchased kWh versus Adjusted kWh and indicates the resulting prediction equation to be reasonable:

Table 3.21: Actual Purchased kWh versus Adjusted kWh

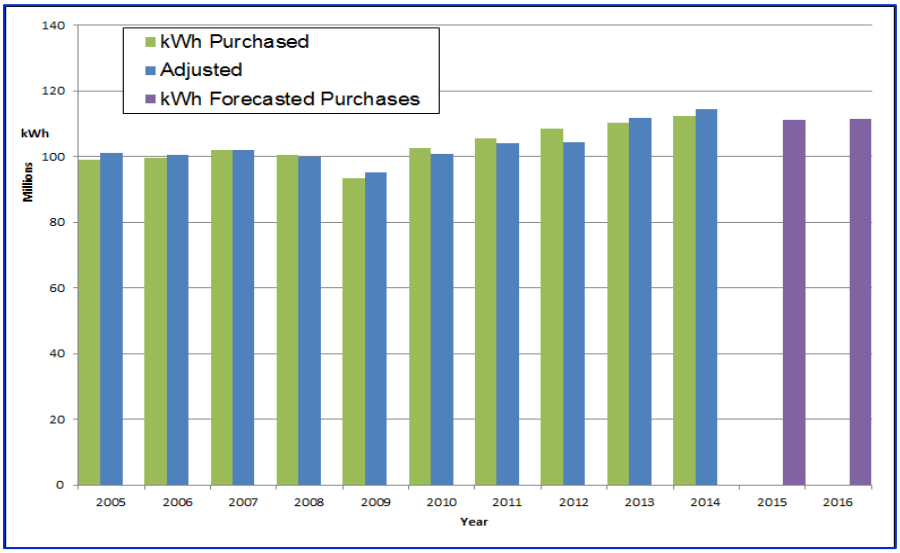


Table 3.22 below, demonstrates the results of this adjustment comparing the Actual Purchased kWh and the Adjusted kWh wholesale purchases:

Table 3.22: Actual Purchased kWh versus Adjusted kWh

Year	kWh Purchased	Predicted	Difference
2005	99,177,534.70	101,022,119.00	1.86%
2006	99,726,774.81	100,486,423.95	0.76%
2007	101,905,199.30	102,018,514.07	0.11%
2008	100,510,260.57	99,854,869.43	0.65%
2009	93,415,381.52	95,317,999.79	2.04%
2010	102,608,264.83	100,819,380.40	1.74%
2011	105,625,698.07	104,006,389.36	1.53%
2012	108,411,816.52	104,474,814.18	3.63%
2013	110,314,059.50	111,813,624.29	1.36%
2014	112,420,511.95	114,301,367.31	1.67%
2015 Weather Normal		111,314,900.28	
2016 Weather Normal		111,517,167.98	
2016 Weather Normal - 10 year average		111,517,167.98	
2016 Weather Normal - 20 year average		111,554,925.00	
2016 Weather Normal - 20 year trend		111,460,019.00	

The weather normalized amount for 2016 is determined by using 2016 dependent variables in the prediction formula on a monthly basis together with the average monthly heating degree days and cooling degree days that occurred from January 2005 to December 2014 (i.e. ten years). The 2016 weather normalized 10 year average value represents the average heating degree days and cooling degree days that occurred from January 2005 to December 2014. The 2016 weather normalized 20 year trend value reflects the average in monthly heating degree days and cooling degree days that occurred from January 1995 to December 2014.

The weather normal ten year average has been used as the purchased forecast in this Application for the purposes of determining a billed kWh load forecast which is used to design rates. The ten year average has been used as this is consistent with the period of time over which the regression analysis was conducted.

The tables below illustrate the effect on the 2016 Test Year Load Forecast by using a 10 year average, a 20 year average and a 20-year trend to weather normalized wholesale purchases is presented in the Tables below:

Table 3.23: Forecast using a Ten-Year average Weather Normalization

	Heating Degree Days (10 year average)	Cooling Degree Days (10 year average)	Number of Days in Month	Number of Peak Hours	Regional Employment	Sensitive Customers (Purchased kWh)	Adjusted Wholesale kWh	
Jan-15	773.58	0.00	31	336	685.50	3,101,068.16	10,199,223	
Feb-15	712.64	0.00	28	304	682.45	3,116,766.49	9,498,732	
Mar-15	617.95	0.34	31	352	681.90	3,129,385.76	9,864,342	
Apr-15	365.99	0.26	30	320	682.40	3,145,564.35	8,938,138	
May-15	186.04	12.07	31	320	690.15	3,160,340.31	8,745,562	
Jun-15	57.06	40.56	30	352	700.55	3,177,551.19	8,735,200	
Jul-15	23.23	68.02	31	336	708.95	3,195,440.15	8,984,058	
Aug-15	28.30	48.40	31	320	710.05	3,208,867.76	8,779,174	
Sep-15	113.44	14.79	30	336	708.85	3,233,083.89	8,687,029	
Oct-15	292.26	2.49	31	336	710.95	3,254,470.74	9,211,344	
Nov-15	475.49	0.00	30	320	710.50	3,278,085.23	9,482,811	2015 Total
Dec-15	675.59	0.00	31	336	704.85	3,298,717.81	10,189,287	111,314,900
Jan-16	773.58	0.00	31	320	685.50	3,101,068.16	10,124,219	
Feb-16	712.64	0.00	29	320	682.45	3,116,766.49	9,701,000	
Mar-16	617.95	0.34	31	336	681.90	3,129,385.76	9,789,338	
Apr-16	365.99	0.26	30	336	682.40	3,145,564.35	9,013,142	
May-16	186.04	12.07	31	336	690.15	3,160,340.31	8,820,566	
Jun-16	57.06	40.56	30	352	700.55	3,177,551.19	8,735,200	
Jul-16	23.23	68.02	31	320	708.95	3,195,440.15	8,909,054	
Aug-16	28.30	48.40	31	352	710.05	3,208,867.76	8,929,183	
Sep-16	113.44	14.79	30	336	708.85	3,233,083.89	8,687,029	
Oct-16	292.26	2.49	31	320	710.95	3,254,470.74	9,136,339	
Nov-16	475.49	0.00	30	336	710.50	3,278,085.23	9,557,815	2016 Total
Dec-16	675.59	0.00	31	320	704.85	3,298,717.81	10,114,283	111,517,168

Table 3.24: Forecast Using a Twenty-Year Weather Normalization

	Heating Degree Days (20 year average)	Cooling Degree Days (20 year average)	Number of Days in Month	Number of Peak Hours	Regional Employment	Sensitive Customers (Purchased kWh)	Adjusted Wholesale kWh	
Jan-15	785.44	0.00	31	336	685.50	3,101,068.16	10,230,396	
Feb-15	703.10	0.00	28	304	682.45	3,116,766.49	9,473,688	
Mar-15	620.85	0.17	31	352	681.90	3,129,385.76	9,870,595	
Apr-15	383.81	0.40	30	320	682.40	3,145,564.35	8,986,047	
May-15	201.46	8.94	31	320	690.15	3,160,340.31	8,760,766	
Jun-15	65.88	35.87	30	352	700.55	3,177,551.19	8,720,399	
Jul-15	27.94	59.02	31	336	708.95	3,195,440.15	8,923,670	
Aug-15	33.46	43.93	31	320	710.05	3,208,867.76	8,756,572	
Sep-15	118.11	14.48	30	336	708.85	3,233,083.89	8,696,765	
Oct-15	302.21	1.60	31	336	710.95	3,254,470.74	9,230,243	
Nov-15	483.07	0.00	30	320	710.50	3,278,085.23	9,502,720	2015 Total
Dec-15	679.98	0.00	31	336	704.85	3,298,717.81	10,200,797	111,352,657
Jan-16	785.44	0.00	31	320	685.50	3,101,068.16	10,155,392	
Feb-16	703.10	0.00	29	320	682.45	3,116,766.49	9,675,956	
Mar-16	620.85	0.17	31	336	681.90	3,129,385.76	9,795,591	
Apr-16	383.81	0.40	30	336	682.40	3,145,564.35	9,061,051	
May-16	201.46	8.94	31	336	690.15	3,160,340.31	8,835,770	
Jun-16	65.88	35.87	30	352	700.55	3,177,551.19	8,720,399	
Jul-16	27.94	59.02	31	320	708.95	3,195,440.15	8,848,666	
Aug-16	33.46	43.93	31	352	710.05	3,208,867.76	8,906,580	
Sep-16	118.11	14.48	30	336	708.85	3,233,083.89	8,696,765	
Oct-16	302.21	1.60	31	320	710.95	3,254,470.74	9,155,239	
Nov-16	483.07	0.00	30	336	710.50	3,278,085.23	9,577,724	2016 Total
Dec-16	679.98	0.00	31	320	704.85	3,298,717.81	10,125,793	111,554,925

Table 3.25: Forecast Using a Twenty Year Trend Weather Normalization

	Heating Degree Day	Cooling Degree Day	Number of Days in Month	Number of Peak Hours	Regional Employment	Sensitive Customers (Purchased	Adjusted Wholesale (kWh)	
Jan-16	790.89	0.00	31	320	685.50	3,101,068.16	10,169,685	
Feb-16	716.34	0.00	29	320	682.45	3,116,766.49	9,710,731	
Mar-16	608.20	0.53	31	336	681.90	3,129,385.76	9,765,316	
Apr-16	357.33	0.36	30	336	682.40	3,145,564.35	8,991,222	
May-16	170.46	14.26	31	336	690.15	3,160,340.31	8,797,391	
Jun-16	59.71	37.36	30	352	700.55	3,177,551.19	8,716,254	
Jul-16	22.54	70.35	31	320	708.95	3,195,440.15	8,926,110	
Aug-16	28.68	48.59	31	352	710.05	3,208,867.76	8,931,707	
Sep-16	108.24	17.56	30	336	708.85	3,233,083.89	8,695,737	
Oct-16	289.86	1.82	31	320	710.95	3,254,470.74	9,124,649	
Nov-16	465.89	0.00	30	336	710.50	3,278,085.23	9,532,594	2016 Total
Dec-16	669.63	0.00	31	320	704.85	3,298,717.81	10,098,621	111,460,019

Ex.3/Tab 1/Sch.10 - Determination of Customer Forecast

WNP has used a simple geometric mean function to determine the forecasted number of customers of the 2015 Bridge Year and 2016 Test Year. The geometric mean is more appropriate to use when dealing with percentages and rates of change. Although the formula is somewhat simplistic, it is reasonably representative of WNP's steady customer growth. The geometric mean results were analyzed by WNP and then further adjusted for known particulars. Historic customer counts and projected customer counts for the 2015 Bridge Year and the 2016 Test Year are presented in Table 3.26 below.

Table 3.26: Customer Forecast

	Residential		General Service < 50 kW		General Service > 50 kW - 999 kW		General Service > 1000 kW 4999 kW		Street Lights		Sentinel Lights		Unmetered Scattered Load		Total Customers	
Date	Customers	Growth Rate	Customers	Growth Rate	Customers	Growth Rate	Customers or Connections	Growth Rate	Connections	Growth Rate	Connections	Growth Rate	Connections	Growth Rate	Customers & Connections	Growth Rate
2005	2,869		462		40		5		942		23		13		4,354	
2006	2,923	1.0191	455	0.9845	38	0.9705	5	1.0000	942	1.0000	23	1.0000	13	0.9936	4,400	1.0106
2007	2,959	1.0121	455	1.0004	39	1.0087	4	0.8833	942	1.0000	24	1.0290	10	0.7355	4,432	1.0074
2008	3,002	1.0147	464	1.0183	41	1.0581	4	0.9057	942	1.0000	34	1.4472	3	0.3333	4,490	1.0130
2009	3,037	1.0117	468	1.0101	43	1.0508	5	1.2500	900	0.9554	31	0.8905	2	0.6842	4,486	0.9991
2010	3,073	1.0117	479	1.0230	40	0.9207	5	1.0000	900	1.0000	28	0.9180	1	0.5769	4,526	1.0088
2011	3,103	1.0099	478	0.9974	38	0.9664	5	1.0000	899	0.9989	28	1.0000	1	1.1333	4,553	1.0059
2012	3,126	1.0074	478	1.0000	38	0.9826	5	1.0000	898	0.9989	28	1.0000	1	0.8824	4,574	1.0047
2013	3,161	1.0109	474	0.9927	39	1.0221	5	1.0000	900	1.0017	28	1.0000	2	1.2667	4,607	1.0073
2014	3,190	1.0095	473	0.9975	38	0.9957	5	1.0000	905	1.0061	28	1.0000	1	0.7368	4,641	1.0073
Geomean		*1.0119*		*1.0026*		*0.9964*		*1.0000*		*0.9956*		*1.0221*		*0.7650*		*1.0071*
2015	3,228		474		38		5		901		29		1		4,647	
2016	3,267		476		38		5		897		29		1		4,682	

In the section below, LDCs can adjust the computed customer count for the Bridge and Test Year for special circumstance such as new subdivision or loss of customer or other utility specific reasons.

Adjusted															Adjusted	
2015	3,220	1.0093		0.0000		0.0000			905	1.0000	29	1.0357		0.0000	4,154	0.8951
2016	3,251	1.0096		0.0000		0.0000			905	1.0000	29	1.0000		0.0000	4,185	1.0075

Note: The model computes an average customer count. Utility may chose to overwrite the customer/connection count if a year end count is more appropriate.

FINAL ADJUSTED NUMBERS															Adjusted	
2015	3,220	1.0093	474	1.0026	38	0.9964	5	1.0000	905	1.0000	29	1.0357	1	0.7650	4,671	0.8951
2016	3,251	1.0096	476	1.0026	38	0.9964	5	1.0000	905	1.0000	29	1.0000	1	0.7650	4,704	1.0075

Note:

Number of customers / connections is based on the count at the year-end (i.e. 31st December)

Residential Customers:

WNP have observed that that customer numbers in the Residential class steadily increasing at an average of just below 1% (0.94%) from 2010 to 2014, as illustrated in the above Table 3.4 "Customer / Connection Projections". However, in the table above, Table 3.26, "Customer Forecast", using the 10-tyear geomean of 1.0194 would result in customer projections of 3,228 and 3,267 for the 2015 Bridge Year and 2016 Test Year respectively, an increase of 1.19%. In WNP's opinion, this increase is slightly high and therefore WNP proposes that the geomean for the last four years, 2010 to 2014 (not ten years – 2005-2014) which results in Residential customer projections of 3,220 and 3,251 in 2015 and 2016 respectively. WNP has used these revised growth numbers in its Load Forecast.

General Service <50kW:

WNP has used the geomean average of 1.0026 derived from the ten year actuals (2005 to 2014) and proposes no revisions to the customer growth projections shown in Table 3.26 above for this customer class.

General Service 50-999kW:

WNP has used the geomean average of 0.9964 derived from the ten year actuals (2005 to 2014) and proposes no revisions to the customer growth projections shown in Table 3.26 above for this customer class.

General Service 1000-4999kW:

WNP has used the geomean average of 1.0000 derived from the ten year actuals (2005 to 2014) and proposes no revisions to the customer growth projections shown in Table 3.26 above for this customer class.

Street Lights:

In the above table, applying the geomean of 0.9956 results to a reduction of connections; i.e. to 901 connections and 897 connections for the 2015 Bridge Year and 2016 Test Year respectively. In WNP's opinion, the number of connections is not forecast to reduce and therefore has applied the 2014 actual of 905 connections for its projection for 2015 Bridge Year and 2016 Test Year for this rate class.

Sentinel Lights:

WNP has used the geomean average of 1.0221 derived from the ten year actuals (2005 to 2014) and proposes no revisions to the customer growth projections shown in Table 3.26 above for this customer class.

Unmetered Scattered Load:

WNP has used the geomean average of 0.7650 derived from the ten year actuals (2005 to 2014) and proposes no revisions to the customer growth projections shown in Table 3.26 above for this customer class.

Ex.3/Tab 1/Sch.11 - Determination of Weather Normalized Forecast

The difference between non-normalized and normalized forecast is assumed to be the amount related to moving the forecast to a weather normal basis. This difference will be assigned to those rate classes that are weather sensitive. WNP used the weather normalization work completed by Hydro One for WNP for its' 2007 Cost Allocation Study as a starting point and has shown its weather sensitivity by rate class below in Table 3-27. WNP has applied a weather sensitivity factor of 83%, which is the mid-point between the 100% HONI reported for these two classes and the GS 50-999KW sensitivity factor of 65%. None of the other rate classes were assumed to be weather sensitive.

Table 3.27: Weather Sensitive Customers

Weather Sensitivity						
Residential	General Service < 50 kW	General Service 50 to 999 kW	General Service 1000 to 4,999 kW	Street Lights	Sentinel Lights	Unmetered Loads
82.5%	82.5%	65%	0%	0%	0%	0%

Table 3-28 outlines how the weather sensitive rate classes have been adjusted to align the non-normalized forecast with the normalized forecast.

Table 3.28: Alignment of Non-Normalized Forecast to Weather Normalized Forecast

	Non-Normalized Weather Billed Energy Forecast (kWh)						
	Residential	General Service < 50 kW	General Service 50 to 999 kW	General Service 1000 to 4999 kW	Street Lights	Sentinel Lights	Unmetered Scattered Load
2015 Bridge Yr	25,959,809	11,860,353	14,541,100	51,432,197	723,044	24,275	4,164
2016 Test Yr	25,978,376	11,842,863	13,524,485	51,432,197	725,392	23,128	3,024
	Adjustment for Weather (kWh)						
	Residential	General Service < 50 kW	General Service 50 to 999 kW	General Service 1000 to 4999 kW	Street Lights	Sentinel Lights	Unmetered Scattered Load
2015 Bridge Yr	(201,385)	(92,008)	(88,876)	0	0	0	0
2016 Test Yr	440,760	200,931	180,788	0	0	0	0
	Weather Normalized Weather Billed Energy Forecast (kWh)						
	Residential	General Service < 50 kW	General Service 50 to 999 kW	General Service 1000 to 4999 kW	Street Lights	Sentinel Lights	Unmetered Scattered Load
2015 Bridge Yr	25,758,424	11,768,345	14,452,224	51,432,197	723,044	24,275	4,164
2016 Test Yr	26,419,136	12,043,794	13,705,273	51,432,197	725,392	23,128	3,024

Ex.3/Tab 1/Sch.12 - Load Forecast by Class.

There are four rate classes that charge volumetric distribution on per a kW basis. These include GS >50-999 kW, GS >1000-4999 kW, Street Lighting, and Sentinel Lighting. As a result, the energy forecast for these classes needs to be converted to a kW basis for rate setting purposes. The forecast of kW for these rate classes is based on an average analysis of the historical ratio of kW to kWhs and applying this ratio to the forecasted kWh to produce the required KW. Table 3-29 summarizes the historical annual demand units by applicable rate class:

Table 3.29: Historic Annual kW by Class

	Year	General Service 50 to 999 kW	General Service 1000 to 4,999 kW	Street Lights	Sentinel Lights	Total
kW	2005	45,546	86,247	1,998	109	133,901
	2006	51,134	90,065	2,010	108	143,317
	2007	72,261	68,832	2,007	106	143,206
	2008	73,818	67,494	2,048	103	143,463
	2009	64,960	72,545	2,026	93	139,624
	2010	62,105	83,945	1,981	88	148,119
	2011	65,571	85,844	1,964	82	153,460
	2012	67,391	89,307	1,963	72	158,734
	2013	53,734	103,015	1,978	72	158,799
	2014	47,684	110,732	1,983	71	160,470

WNP has adopted the average analysis approach to provide a forecast of kW for the applicable rate classes as shown in Table 3-30:

Table 3.30: kW / kWh Ratio based on 4-Year Average

	Year	General Service 50 to 999 kW	General Service 1000 to 4,999 kW	Street Lights	Sentinel Lights	Total
kW	2005	45,546	86,247	1,998	109	133,901
	2006	51,134	90,065	2,010	108	143,317
	2007	72,261	68,832	2,007	106	143,206
	2008	73,818	67,494	2,048	103	143,463
	2009	64,960	72,545	2,026	93	139,624
	2010	62,105	83,945	1,981	88	148,119
	2011	65,571	85,844	1,964	82	153,460
	2012	67,391	89,307	1,963	72	158,734
	2013	53,734	103,015	1,978	72	158,799
	2014	47,684	110,732	1,983	71	160,470
kWh	2005	30,016,678	24,099,432	728,596	39,379	54,884,085
	2006	29,919,925	25,721,661	731,832	38,909	56,412,327
	2007	24,233,832	33,212,587	727,707	38,081	58,212,207
	2008	25,169,769	30,725,657	748,942	36,606	56,680,974
	2009	20,973,876	27,961,217	738,099	33,138	49,706,330
	2010	20,890,084	37,885,731	720,757	31,636	59,528,208
	2011	21,438,642	39,368,359	713,439	28,024	61,548,464
	2012	21,823,125	42,470,244	715,663	26,093	65,035,125
	2013	17,140,222	48,528,024	718,528	26,093	66,412,867
	2014	15,634,133	51,432,197	720,704	25,478	67,812,512
kW / kWh	2005	0.15%	0.36%	0.27%	0.28%	
	2006	0.17%	0.35%	0.27%	0.28%	
	2007	0.30%	0.21%	0.28%	0.28%	
	2008	0.29%	0.22%	0.27%	0.28%	
	2009	0.31%	0.26%	0.27%	0.28%	
	2010	0.30%	0.22%	0.27%	0.28%	
	2011	0.31%	0.22%	0.28%	0.29%	
	2012	0.31%	0.21%	0.27%	0.28%	
	2013	0.31%	0.21%	0.28%	0.28%	
	2014	0.31%	0.22%	0.28%	0.28%	
	10 year Average	0.28%	0.25%	0.27%	0.28%	
	4 year Average	0.31%	0.21%	0.28%	0.28%	
2015 Brdge Yr	kWh	14,360,704	51,108,488	723,044	24,275	
2016 Test Year	kWh	13,489,914	50,613,209	725,392	23,128	

WNP divided the historical (10 years) actual kW demand by the kWh for each rate class to give a kW to kWh ratio as illustrated in the above table. Upon reviewing the 10-year average kW to kWh ratios for each rate class, WNP elected to adopt a ratio based an average of the most recent 4 years (i.e. 2010 to 2014 data) because this reflects reduced kW demand due to CDM programs delivered and implemented during this period. The table below illustrates the 2015 Bridge Year and 2016 Test Year kW volumes for the four rate classes as derived from using the 4-year average;

Table 3.31: kW / kWh Ratio based on 4-Year Average

Year	Unit	General Service 50 to 999 kW	General Service 1000 to 4,999 kW	Street Lights	Sentinel Lights
2015 Bridge Year	kWh	14,360,704	51,108,488	723,044	24,275
2016 Test Year	kWh	13,489,914	50,613,209	725,392	23,128
4 year Average (kW/kWH ratio)		0.31%	0.21%	0.28%	0.28%
2015 Bridge Year	kW	44,272	109,361	1,988	68
2016 Test Year	kW	41,588	108,301	1,995	65

Note: As the CDM Adjustment has been applied to kWh and the kWh is then being converted to kW, the kW already reflects the CDM Adjustment and therefore, the utility has not applied any additional CDM adjustments to its forecasted kW. Ex.3/Tab 2/Sch.2 explains the allocation of CDM energy volumes.

Ex.3/Tab 1/Sch.13 - Final Normalized Load Forecast

Table 3.32 below illustrates the historical and projected weather normalized Load Forecast by customer class.

Table 3.32: Final Load Forecast (not CDM adjusted)

Wellington North Power Inc. Weather Normal Load Forecast for 2016 Rate Application												
EB-2015-0110												
	2005 Actual	2006 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Weather Normal	2016 Weather Normal
Actual kWh Purchases	99,177,535	99,726,775	101,905,199	100,510,261	93,415,382	102,608,265	105,625,698	108,411,817	110,314,060	112,420,512		
Predicted kWh Purchases	101,022,119	100,486,424	102,018,514	99,854,869	95,318,000	100,819,380	104,006,389	104,474,814	111,813,624	114,301,367	111,314,900	111,517,168
% Difference	1.9%	0.8%	0.1%	-0.7%	2.0%	-1.7%	-1.5%	-3.6%	1.4%	1.7%		
CDM Purchase Adjustment						0	0	0	0	0	0	0
Predicted kWh Purchases after CDM											111,314,900	111,517,168
Billed kWh	92,239,845	93,628,881	95,248,613	93,522,520	86,446,481	96,062,450	99,140,087	101,548,388	103,789,320	105,637,369	104,162,674	104,351,946
By Class												
Residential												
Customers	2,869	2,923	2,959	3,002	3,037	3,073	3,103	3,126	3,161	3,190	3,220	3,251
kWh	25,217,181	25,227,824	25,023,794	25,142,788	25,158,787	25,200,723	25,802,534	24,795,447	25,357,835	25,941,256	25,758,424	26,419,136
General Service < 50 kW												
Customers	462	455	455	464	468	479	478	478	474	473	474	476
kWh	12,036,675	11,886,853	11,930,026	11,678,034	11,573,828	11,323,787	11,781,553	11,710,253	12,012,886	11,877,868	11,768,345	12,043,794
General Service 50 to 999 kW												
Customers	40	38	39	41	43	40	38	38	39	38	38	38
kWh	30,016,678	29,919,925	24,233,832	25,169,769	20,973,876	20,890,084	21,438,642	21,823,125	17,140,222	15,634,133	14,452,224	13,705,273
kW	45,546	51,134	72,261	73,818	64,960	62,105	65,571	67,391	53,734	47,684	44,555	42,252
General Service 1000 to 4,999 kW												
Customers	5	5	4	4	5	5	5	5	5	5	5	5
kWh	24,099,432	25,721,661	33,212,587	30,725,657	27,961,217	37,885,731	39,368,359	42,470,244	48,528,024	51,432,197	51,432,197	51,432,197
kW	86,247	90,065	68,832	67,494	72,545	83,945	85,844	89,307	103,015	110,732	110,053	110,053
Street Lights												
Customers	942	942	942	942	900	900	899	898	900	905	905	905
kWh	728,596	731,832	727,707	748,942	738,099	720,757	713,439	715,663	718,528	720,704	723,044	725,392
kW	1,998	2,010	2,007	2,048	2,026	1,981	1,964	1,963	1,978	1,983	1,988	1,995
Sentinel Lights												
Customers	23	23	24	34	31	28	28	28	28	28	29	29
kWh	39,379	38,909	38,081	36,606	33,138	31,636	28,024	26,093	26,093	25,478	24,275	23,128
kW	109	108	106	103	93	88	82	72	72	71	68	65
Unmetered Loads												
Connections	13	13	10	3	2	1	1	1	2	1	1	1
kWh	101,904	101,877	82,586	20,724	7,536	9,732	7,536	7,563	5,733	5,733	4,164	3,024
Total												
Customer/Connections	4,354	4,400	4,432	4,490	4,486	4,526	4,553	4,574	4,607	4,641	4,672	4,704
kWh	92,239,845	93,628,881	95,248,613	93,522,520	86,446,481	96,062,450	99,140,087	101,548,388	103,789,320	105,637,369	104,162,674	104,351,946
kW from applicable classes	133,901	143,317	143,206	143,463	139,624	148,119	153,460	158,734	158,799	160,470	156,665	154,365

Impact and Persistence from Historical CDM Programs

Ex.3/Tab 2/Sch.1 - Load Forecast CDM Adjustment Work Form

While the forecast as presented in the previous section assumes some level of embedded "natural conservation", it does not take into account the impacts on energy purchases arising from CDM programs undertaken by WNP's customers. The load forecast is a projection of the expected level of electricity purchases that would occur over the specified period in the absence of any CDM initiatives. Therefore, in accordance with the filing requirements, the forecasted energy purchases are further adjusted to reflect CDM reductions.

The schedule to achieve CDM targets are presented in the Tables below:

Table 3.33: Utility specific 2011-2014 CDM target

[OEB Appendix App_2-LF_CDM]

4 Year (2011-2014) kWh Target:					
100,000					
	2011	2012	2013	2014	Total
2011 CDM Programs	3.43%	3.43%	3.43%	2.87%	13.15%
2012 CDM Programs		14.81%	14.81%	14.81%	44.42%
2013 CDM Programs			4.28%	4.25%	8.53%
2014 CDM Programs				7.15%	7.15%
Total in Year	**3.43%**	**18.23%**	**22.51%**	**29.07%**	**73.24%**
kWh					
2011 CDM Programs	154,847.62	154,847.62	154,847.62	129,790.46	594,333.32
2012 CDM Programs		669,219.89	669,219.89	669,219.89	2,007,659.66
2013 CDM Programs			193,560.28	191,919.94	385,480.22
2014 CDM Programs				323,197.12	323,197.12
Total in Year	**154,847.62**	**824,067.51**	**1,017,627.79**	**1,314,127.40**	**3,310,670.31**

Table 3.34: 2015-2020 CDM Program: 2015 - First year of the current CDM plan

6 Year (2015-2020) kWh Target:							
5,900,000							
	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	983,333.33	983,333.33					1,966,666.67
2016 CDM Programs		983,333.33					983,333.33
2017 CDM Programs			983,333.33				983,333.33
2018 CDM Programs				983,333.33			983,333.33
2019 CDM Programs					983,333.33		983,333.33
2020 CDM Programs						983,333.33	983,333.33
Total in Year	**983,333.33**	**1,966,666.67**	**983,333.33**	**983,333.33**	**983,333.33**	**983,333.33**	**5,900,000.00**

Table 3.35: Weight Factor Applied to 2014 due to CDM

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

Table 3.36: Effect of CDM Activity to be accounted for in 2016 Load Forecast

	2011 kWh	2012	2013	2014	2015	2016	Total for 2016
Amount used for CDM threshold for LRAMVA (2014)				323,197.12			323,197.12
CDM adjustment for test year forecast (per Board Decision in distributor's most recent Cost of Service Application) (enter as negative)		(904,000.00)	(904,000.00)	(904,000.00)			(2,712,000.00)
Amount used for CDM threshold for LRAMVA (2016)				323,197.12	983,333.33	983,333.33	2,289,863.78
Manual Adjustment for 2016 Load Forecast (billed basis)	-	-	-	161,598.56	983,333.33	491,666.67	1,636,598.56
Proposed Loss Factor (TLF)	6.56%						
Manual Adjustment for 2016 Load Forecast (system purchased basis)	-	-	-	172,199.76	1,047,842.03	523,921.02	1,743,962.81

The values entered in the 2011-2014 report originates from the OPA's issued report; 2011-2014 Final OPA CDM Results. The report provides a portfolio-level summary of the annual resource savings (demand and energy, net and gross for each) for the 2011–2014 program portfolios for WNP. WNP used the most recent annual results from the IESO (*formerly the OPA*) CDM "Final Results Report for Wellington North Power Inc." issued on September 2nd 2015 and the Q4 results are presented as an appendix to this Exhibit.

The values entered in the 2015 - 2020 originate from the "Conservation First Framework LDC Tool Kit" published July 1, 2014 which shows WNP's target to be 5.90 GWh.

Ex.3/Tab 2/Sch.2 – Allocation of CDM Results

WNP's CDM target is 5,900,000 between 2015 to 2020 which at a 16.67 target rate per year which equates to annual CDM energy savings of 983,333 kWh.

The overall CDM adjustment is shown in Table 3.36 in Exhibit 3 / Tab 2 / Schedule 1 and is calculated by:

- 2015 Bridge Year CDM reduction of 653,265 kWh based on ½ x actual kWh savings achieved in 2014 plus ½ of 2015's CDM target.
  [½ x 323,197kWh + ½ x 983,333 = 653,265 kWh].
- 2016 Test Year CDM reduction of 1,636,599 kWh based on ½ x actual kWh savings achieved in 2014 plus 100% of 2015's CDM target plus ½ of 2016's CDM target.
  [½ x 323,197kWh + 983,333 + ½ x 983,333 = 1,636,599 kWh]

The manual adjustment used for the load forecast is allocated on pro-rata basis using the 2016 kWh forecast provided in Table 3.36 of Exhibit 3 / Tab1 /Schedule 1) per class. Table 3.37 below presents the pro-rata share and corresponding CDM reduction in consumption by rate class.

Table 3.37: CDM adjustments to Load Forecast

2015 Bridge Year CDM Adjustment to Load Forecast

	Share	CDM kWh Target	Adjusted kWh	Final Adjusted kWh
Residential	25%	163,388	25,758,424	25,595,036
General Service < 50 kW	11%	74,648	11,768,345	11,693,697
General Service 50 to 999 kW	14%	91,520	14,452,224	14,360,704
General Service 1000 to 4,999 kW	50%	323,709	51,432,197	51,108,488
Street Lights	0%	0	723,044	723,044
Sentinel Lights	0%	0	24,275	24,275
Unmetered Loads	0%	0	4,164	4,164
Total	**100%**	**653,265**	**104,162,674**	**103,509,409**

2016 Test Year CDM Adjustment to Load Forecast

	Share	CDM kWh Target	Adjusted kWh	Final Adjusted kWh
Residential	25%	413,670	26,419,136	26,005,466
General Service < 50 kW	12%	188,581	12,043,794	11,855,213
General Service 50 to 999 kW	13%	215,359	13,705,273	13,489,914
General Service 1000 to 4,999 kW	50%	818,988	51,432,197	50,613,209
Street Lights	0%	0	725,392	725,392
Sentinel Lights	0%	0	23,128	23,128
Unmetered Loads	0%	0	3,024	3,024
Total	**100%**	**1,636,599**	**104,351,946**	**102,715,347**

Ex.3/Tab 2/Sch.3 - Final Weather Adjusted Load Forecast

Table 3.38 below provides details of the Final Customer and Volume Load Forecast for each of the years. This summary of the billing determinants by rate class will be used to develop WNP's proposed rates.

Table 3.38: Final Customer and Volume Load Forecast

Wellington North Power Inc. Weather Normal Load Forecast for 2016 Rate Application												
EB-2015-0110												
	2005 Actual	2006 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Weather Normal	2016 Weather Normal
Actual kWh Purchases	99,177,535	99,726,775	101,905,199	100,510,261	93,415,382	102,608,265	105,625,698	108,411,817	110,314,060	112,420,512		
Predicted kWh Purchases	101,022,119	100,486,424	102,018,514	99,854,869	95,318,000	100,819,380	104,006,389	104,474,814	111,813,624	114,301,367	111,314,900	111,517,168
% Difference	1.9%	0.8%	0.1%	-0.7%	2.0%	-1.7%	-1.5%	-3.6%	1.4%	1.7%		
CDM Purchase Adjustment						0	0	0	0	0	(698,121)	(1,748,974)
Predicted kWh Purchases after CDM											110,616,779	109,768,194
Billed kWh	92,239,845	93,628,881	95,248,613	93,522,520	86,446,481	96,062,450	99,140,087	101,548,388	103,789,320	105,637,369	103,509,409	102,715,347
By Class												
Residential												
Customers	2,869	2,923	2,959	3,002	3,037	3,073	3,103	3,126	3,161	3,190	3,220	3,251
kWh	25,217,181	25,227,824	25,023,794	25,142,788	25,158,787	25,200,723	25,802,534	24,795,447	25,357,835	25,941,256	25,595,036	26,005,466
General Service < 50 kW												
Customers	462	455	455	464	468	479	478	478	474	473	474	476
kWh	12,036,675	11,886,853	11,930,026	11,678,034	11,573,828	11,323,787	11,781,553	11,710,253	12,012,886	11,877,868	11,693,697	11,855,213
General Service 50 to 999 kW												
Customers	40	38	39	41	43	40	38	38	39	38	38	38
kWh	30,016,678	29,919,925	24,233,832	25,169,769	20,973,876	20,890,084	21,438,642	21,823,125	17,140,222	15,634,133	14,360,704	13,489,914
kW	45,546	51,134	72,261	73,818	64,960	62,105	65,571	67,391	53,734	47,684	44,272	41,588
General Service 1000 to 4,999 kW												
Customers	5	5	4	4	5	5	5	5	5	5	5	5
kWh	24,099,432	25,721,661	33,212,587	30,725,657	27,961,217	37,885,731	39,368,359	42,470,244	48,528,024	51,432,197	51,108,488	50,613,209
kW	86,247	90,065	68,832	67,494	72,545	83,945	85,844	89,307	103,015	110,732	109,361	108,301
Street Lights												
Customers	942	942	942	942	900	900	899	898	900	905	905	905
kWh	728,596	731,832	727,707	748,942	738,099	720,757	713,439	715,663	718,528	720,704	723,044	725,392
kW	1,998	2,010	2,007	2,048	2,026	1,981	1,964	1,963	1,978	1,983	1,988	1,995
Sentinel Lights												
Customers	23	23	24	34	31	28	28	28	28	28	29	29
kWh	39,379	38,909	38,081	36,606	33,138	31,636	28,024	26,093	26,093	25,478	24,275	23,128
kW	109	108	106	103	93	88	82	72	72	71	68	65
Unmetered Loads												
Connections	13	13	10	3	2	1	1	1	2	1	1	1
kWh	101,904	101,877	82,586	20,724	7,536	9,732	7,536	7,563	5,733	5,733	4,164	3,024
Total												
Customer/Connections	4,354	4,400	4,432	4,490	4,486	4,526	4,553	4,574	4,607	4,641	4,672	4,704
kWh	92,239,845	93,628,881	95,248,613	93,522,520	86,446,481	96,062,450	99,140,087	101,548,388	103,789,320	105,637,369	103,509,409	102,715,347
kW from applicable classes	133,901	143,317	143,206	143,463	139,624	148,119	153,460	158,734	158,799	160,470	155,690	151,949

Accuracy of Load Forecast and Variance Analysis

Ex.3/Tab 3/Sch.1 - Variance Analysis of Load Forecast

As per section 2.3.2 of the OEB filing requirements Applicants must demonstrate the historical accuracy of the load forecast approach. WNP has provided revenue, customer/connection count by rate class and total system load in kWh and variances.

Distribution Revenues:

The table below shows the 2016 Test Year Revenue on existing rates:

Table 3.39: 2016 Test Year Revenue on Existing Rates

Rate Class	Customers/ Connections	Number of			Test Year Consumption		Existing Rates			Revenues at Exisitng Rates Rates
		Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volumetric		
								kWh	kW	
Residential	kWh	3,248	3,254	3,250.85	26,005,466		$18.49	$0.0185		$1,202,399.72
General Service < 50 kW	kWh	474	477	475.52	11,855,213		$39.25	$0.0168		$423,135.14
General Service > 50 to 999 kW	kW	38	38	38.00	13,489,914	41,588	$275.90		$3.6643	$278,201.06
General Service 1,000 to 4,999kW	kW	5	5	5.00	50,613,209	108,301	$2,254.94		$1.8921	$340,212.79
Unmetered Scattered Load	kWh	1	1	1.00	3,024		$18.09	$0.0146		$261.24
Sentinel Lighting	kW	29	29	29.00	23,128	65	$5.24		$19.3776	$3,083.59
Street Lighting	kW	905	905	905.00	725,392	1,995	$7.12		$7.9283	$93,139.17
Total										$ 2,340,433

The table below shows the 2016 Test Year Revenue on proposed rates:

Table 3.40: 2016 Test Year Revenue on Proposed Rates

Rate Class	Customers/ Connections	Number of			Test Year Consumption		Proposed Rates			Revenues at Proposed Rates
		Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volumetric		
								kWh	kW	
Residential	kWh	3,248	3,254	3,250.85	26,005,466		$25.28	$0.0163		$1,409,208.58
General Service < 50 kW	kWh	474	477	475.52	11,855,213		$47.14	$0.0127		$419,995.45
General Service > 50 to 999 kW	kW	38	38	38.00	13,489,914	41,588	$275.90		$2.8152	$242,888.24
General Service 1,000 to 4,999kW	kW	5	5	5.00	50,613,209	108,301	$2,254.94		$3.0081	$461,076.13
Unmetered Scattered Load	kWh	1	1	1.00	3,024		$20.35	$0.0296		$333.78
Sentinel Lighting	kW	29	29	29.00	23,128	65	$12.05		$ 20.4588	$5,523.78
Street Lighting	kW	905	905	905.00	725,392	1,995	$4.30		$ 7.2310	$61,122.99
Total										$ 2,600,149

Table 3.41 below compares the customer / connection numbers, kWh and kW volumes as well as distribution revenue from the 2012 Board Approved date through to the 2016 Test Year.

Table 3.41: Historical Analysis of Energy Volume, Customers/Connections and Distribution Revenue

		2012 Board Approved	2012 Actual	Variance between 2012 Actual versus Board Approved		2013 Actual	Variance between 2013 Actual versus 2012 Actual		2014 Actual	Variance between 2014 Actual versus 2013 Actual		2015 Bridge Year	Variance between 2015 Bridge Year versus 2014 Actual		2016 Test Year	Variance between 2016 Test Year versus 2015 Bridge	
Residential	Customers	3,160	3,126	(34)	-1.1%	3,161	34	1.1%	3,190	30	0.9%	3,220	30	0.9%	3,251	30	0.9%
	kWh	24,876,519	24,795,447	(81,072)	-0.3%	25,357,835	562,388	2.3%	25,941,256	583,421	2.3%	25,595,036	(346,220)	-1.3%	26,005,466	410,430	1.6%
	Distribution Revenue	$1,130,849	$1,204,974	74,125	6.6%	$1,197,086	(7,888)	-0.7%	$1,216,804	19,718	1.6%	$1,202,398	(14,406)	-1.2%	$1,376,020	173,622	14.4%
General Service < 50 kW	Customers	489	478	(11)	-2.2%	474	(4)	-0.7%	473	(1)	-0.2%	474	1	0.3%	476	1	0.3%
	kWh	10,703,832	11,710,253	1,006,421	9.4%	12,012,886	302,634	2.6%	11,877,868	(135,018)	-1.1%	11,693,697	(184,171)	-1.6%	11,855,213	161,515	1.4%
	Distribution Revenue	$400,036	$423,367	23,331	5.8%	$484,205	60,838	14.4%	$472,915	(11,290)	-2.3%	$423,140	(49,775)	-10.5%	$453,186	30,046	7.1%
General Service 50 to 999 kW	Customers	40	38	(2)	-6.0%	39	1	1.3%	38	(0)	-0.4%	38	(0)	-0.4%	38	(0)	-0.4%
	kWh	19,816,501	21,823,125	2,006,624	10.1%	17,140,222	(4,682,903)	-21.5%	15,634,133	(1,506,089)	-8.8%	14,360,704	(1,273,429)	-8.1%	13,489,914	(870,790)	-6.1%
	kW	50,979	67,391	16,412	32.2%	53,734	(13,657)	-20.3%	47,684	(6,049)	-11.3%	44,272	(3,412)	-7.2%	41,588	(2,685)	-6.1%
	Distribution Revenue	$298,107	$328,058	29,951	10.0%	$310,308	(17,750)	-5.4%	$294,553	(15,755)	-5.1%	$270,690	(23,863)	-8.1%	$235,377	(35,313)	-13.0%
General Service 1000 to 4,999 kW	Customers	4	5	1	14.0%	5	0	0.0%	5	0	0.0%	5	0	0.0%	5	0	0.0%
	kWh	42,769,242	42,470,244	(298,997)	-0.7%	48,528,024	6,057,780	14.3%	51,432,197	2,904,173	6.0%	51,108,488	(323,709)	-0.6%	50,613,209	(495,279)	-1.0%
	kW	97,926	89,307	(8,619)	-8.8%	103,015	13,708	15.3%	110,732	7,717	7.5%	109,361	(1,371)	-1.2%	108,301	(1,060)	-1.0%
	Distribution Revenue	$295,993	$217,008	(78,985)	-26.7%	$341,406	124,398	57.3%	$364,426	23,020	6.7%	$340,213	(24,213)	-6.6%	$461,076	120,863	35.5%
Street Lights	Customers	886	898	12	1.3%	900	2	0.2%	905	6	0.6%	905	0	0.0%	905	0	0.0%
	kWh	711,946	715,663	3,717	0.5%	718,528	2,865	0.4%	720,704	2,176	0.3%	723,044	2,340	0.3%	725,392	2,348	0.3%
	kW	1,925	1,963	38	2.0%	1,978	15	0.8%	1,983	5	0.2%	1,988	5	0.3%	1,995	6	0.3%
	Distribution Revenue	$88,595	$73,220	(15,375)	-17.4%	$93,334	20,114	27.5%	$94,101	767	0.8%	$93,908	(193)	-0.2%	$61,123	(32,785)	-34.9%
Sentinel Lights	Customers	17	28	11	66.6%	28	0	0.0%	28	0	0.0%	29	1	2.2%	29	1	2.2%
	kWh	29,261	26,093	(3,168)	-10.8%	26,093	0	0.0%	25,478	(615)	-2.4%	24,275	(1,203)	-4.7%	23,128	(1,146)	-4.7%
	kW	80	72	(8)	-10.0%	72	0	0.7%	71	(2)	-2.4%	68	(3)	-3.6%	65	(3)	-4.7%
	Distribution Revenue	$2,548	$8,683	6,135	240.8%	$3,121	(5,562)	-64.1%	$3,079	(42)	-1.3%	$3,099	20	0.6%	$5,560	2,461	79.4%
Unmetered Loads	Connections	1	1	0	0.0%	2	1	58.3%	1	(0)	-26.3%	1	(0)	-23.5%	1	(0)	-23.5%
	kWh	3,969	7,563	3,594	90.5%	5,733	(1,830)	-24.2%	5,733	0	0.0%	4,164	(1,569)	-27.4%	3,024	(1,140)	-27.4%
	Distribution Revenue	$181	$241	60	33.1%	$332	91	37.8%	$351	19	5.7%	$261	(90)	-25.6%	$256	(5)	-1.8%
Total																	
	Customer/Connections	4,598	4,574	(24)	-0.5%	4,607	33	0.7%	4,641	34	0.7%	4,672	31	0.7%	4,704	32	0.7%
	kWh	98,911,269	101,548,388	2,637,118	2.7%	103,789,320	2,240,933	2.2%	105,637,369	1,848,049	1.8%	103,509,409	(2,127,960)	-2.0%	102,715,347	(794,062)	-0.8%
	kW from applicable classes	150,910	158,734	7,824	5.2%	158,799	66	0.0%	160,470	1,671	1.1%	155,690	(4,780)	-3.0%	151,949	(3,741)	-2.4%
	Distribution Revenue	$2,216,309	$2,255,551	39,242	1.8%	$2,429,792	$174,241	7.7%	$2,446,229	$16,437	0.7%	$2,333,709	-$112,520	-4.6%	$2,592,599	$258,890	11.1%

Notes:

a) 2012 Board approved forecast (kWh/kW) reflect values that include CDM adjustment and are weather normalized.

b) 2012, 2013 and 2014 kWh/kW volumes are weather actual.

c) Chapter 2 filing requirements require a schedule of revenue for “at least the past 5 years”. Because WNP last Cost of Service rate application was approved in 2012, the Applicant has provided information back to this particular year (i.e. 3 years of actual data).

The information below provides an overview of this information for each rate class.

Table 3.42 below shows the yearly change in consumption and distribution revenue for the Residential class.

Table 3.42: Residential Variance

Residential Class								
Year	Customers	# Change	% Change	kWh	% Change	Average kWh per Customer per month	Distribution Revenue	% Change
2005	2,869			25,217,181		733		
2006	2,923	55	1.91%	25,227,824	0.04%	719		
2007	2,959	35	1.21%	25,023,794	-0.81%	705		
2008	3,002	43	1.47%	25,142,788	0.48%	698		
2009	3,037	35	1.17%	25,158,787	0.06%	690		
2010	3,073	36	1.17%	25,200,723	0.17%	683		
2011	3,103	30	0.99%	25,802,534	2.39%	693		
2012	3,126	23	0.74%	24,795,447	-3.90%	661	$1,204,974	
2013	3,161	34	1.09%	25,357,835	2.27%	669	$1,197,086	-0.7%
2014	3,190	30	0.95%	25,941,256	2.30%	678	$1,216,804	1.6%
2015 - Bridge Year	3,220	30	0.94%	25,595,036	-1.33%	662	$1,202,398	-1.2%
2016 - Test Year	3,251	30	0.94%	26,005,466	1.60%	667	$1,376,020	14.4%

The residential customer class has been growing slowly but steadily since 2005. The class has grown approximately 1% per year since 2010, which is a lower growth rate compared to 2005 to 2009.

As discussed in Exhibit 3 / Tab 1 / Schedule 6, the area has a higher percentage of people over the age of 64, a lower percentage of people of working age (15 to 64) and lower percentage of children (aged 14 or under) when compared to the national average. WNP believes this population composite is a fair reflection in the service territory that the utility manages within the Township of Wellington North. Over the past five years, there has been an increase in the number of private gated retirement communities and fewer new-build residential properties on vacant land. There is anticipation of growth and new sub-divisions being planned as discussed in Exhibit 2 Appendix 2A - WNP's 2015 Distribution System Plan – section 5.2.2.4: "Consultations with Municipal Planning Office" whose reports suggest the area will see population growth between now and 2041. Residential customer count is expected to grow by 30 in 2015 and 30 in 2016.

Total Residential kWh consumption between 2005 and 2014 has increased by 2.9%; however the average kWh consumer per customer per month has reduced by 7.5% (55 kWh). Energy conservation programs promoted by the utility as well as time-of-use pricing have been a major contributing factor to the average usage reduction. The total kWh consumption and average kWh per customer per month increased in 2013 and 2014 compared to 2012 as a result of a colder and longer winter periods as illustrated in Table 3.12 and discussed on pages 13 and 14.

Distribution Revenue between 2012 to 2014 has been fairly constant at approximately $1.2 million and this trend continues into the 2015 Bridge Year. There is a noticeable increase to just over $1.4 million in the 2016 Test Year and this is predominately due to updating the cost-to-revenue ratios for this customer class (as discussed in Exhibit 7) as well as projected additional 30 residential customers in this year.

Table 3.43 below shows the yearly change in consumption and distribution revenue for the General Service <50 kW class.

Table 3.43: General Service <50kW Variance

General Service <50kW									
Year	Customers	# Change	% Change	kWh	% Change		Average kWh per Customer per month	Distribution Revenue	% Change
2005	462			12,036,675			2,170		
2006	455	-7	-1.55%	11,886,853	-1.24%		2,177		
2007	455	0	0.04%	11,930,026	0.36%		2,184		
2008	464	8	1.83%	11,678,034	-2.11%		2,099		
2009	468	5	1.01%	11,573,828	-0.89%		2,060		
2010	479	11	2.30%	11,323,787	-2.16%		1,970		
2011	478	-1	-0.26%	11,781,553	4.04%		2,055		
2012	478	0	0.00%	11,710,253	-0.61%		2,043	$423,367	
2013	474	-4	-0.73%	12,012,886	2.58%		2,111	$484,205	14.4%
2014	473	-1	-0.25%	11,877,868	-1.12%		2,092	$472,915	-2.3%
2015 - Bridge Year	474	1	0.26%	11,693,697	-1.55%		2,055	$423,140	-10.5%
2016 - Test Year	476	1	0.26%	11,855,213	1.38%		2,078	$453,186	7.1%

The number of customers in the GS<50 kW class have been steadily increasing over the past ten years. A portion of the difference is attributable to reclassification of customers from GS<50 to GS>50 and vice versa. A primary reason for this is customers that are just either slightly over the demand requirements or slightly below. Conservation initiatives are having an impact on the change in reclassification and in 2010, the effect of the 2008/2009 Global Recession may have attributed to three customers moving from GS 50-999kW into this rate class.

Total kWh consumption between 2005 and 2014 has decreased by 1.3% and the average kWh consumer per customer per month has reduced by 3.6% (78 kWh). Energy conservation programs promoted by the utility as well as time-of-use pricing have been a major contributing factor to the average usage reduction which has resulted in reduced distribution revenue for this class. Average kWh usage per customer has declined since 2011, with the notable exception of 2013 when there was a slight increase. The total kWh consumption and average kWh per

customer per month increased in 2013 and 2014 compared to 2012 as a result of a colder and longer winter periods as illustrated in Table 1.12 and discussed on pages 13 and 14.

Distribution Revenue for the General Service <50kW class has fluctuated from 2012 to 2014. WNP is projecting distribution revenue of circa $453,186 in the 2016 Test Year which is at a similar level to 2012. This revenue projection is lower than 2013 and 2014 due to reducing average usage per customer per month.

Table 3.44 below shows the yearly change in consumption and distribution revenue for the General Service 50-999kW class.

Table 3.44: General Service 50-999kW Variance

General Service 50 - 999kW										
Year	Customers	# Change	% Change	kWh	% Change	Average kWh per Customer per month	kW	Average kW per Customer	Distribution Revenue	% Change
2005	40			30,016,678		63,193	45,546	1,151		
2006	38	-1	-2.95%	29,919,925	-0.32%	64,902	51,134	1,331		
2007	39	0	0.87%	24,233,832	-19.00%	52,116	72,261	1,865		
2008	41	2	5.81%	25,169,769	3.86%	51,158	73,818	1,800		
2009	43	2	5.08%	20,973,876	-16.67%	40,568	64,960	1,508		
2010	40	-3	-7.93%	20,890,084	-0.40%	43,887	62,105	1,566		
2011	38	-1	-3.36%	21,438,642	2.63%	46,606	65,571	1,711		
2012	38	-1	-1.74%	21,823,125	1.79%	48,281	67,391	1,789	$328,058	
2013	39	1	2.21%	17,140,222	-21.46%	37,100	53,734	1,396	$310,308	-5.4%
2014	38	0	-0.43%	15,634,133	-8.79%	33,987	47,684	1,244	$294,553	-5.1%
2015 - Bridge Year	38	0	-0.36%	14,360,704	-8.15%	31,330	44,272	1,159	$270,690	-8.1%
2016 - Test Year	38	0	-0.36%	13,489,914	-6.06%	29,536	41,588	1,093	$235,377	-13.0%

The customer count for the GS>50 kW class has seen little change over the last 10 years. The reasons for the slow growth are the same as indicated in the GS<50 section above. WNP projects no increase or decrease in customer numbers in 2015 or 2016.

Total kWh consumption between 2005 and 2014 has decreased by 47.9% and the average kWh consumption per customer per month has reduced by 46% (29,206 kWh). Energy conservation programs promoted by the utility have been a major contributing factor to the average usage reduction.

Distribution revenue for this class has continued to decline from 2013 onwards which relates to reduced total annual kW demand and average kW per customer. This kW reduction is predominately due to customers participating in CDM programs and energy savings initiatives. WNP expects this trend to continue hence the reduced kW demand per customer projection in the 2016 Test Year and corresponding reduction in distribution revenue.

Table 3.45 below shows the yearly change in consumption and distribution revenue for the General Service 1000-4999kW class.

Table 3.45: General Service 1000-4999kW Variance

General Service 1000 - 4999kW										
Year	Customers	# Change	% Change	kWh	% Change	Average kWh per Customer per month	kW	Average kW per Customer	Distribution Revenue	% Change
2005	5			24,099,432		401,657	86,247	17,249		
2006	5	0	0.00%	25,721,661	6.73%	428,694	90,065	18,013		
2007	4	-1	-11.67%	33,212,587	29.12%	626,653	68,832	15,585		
2008	4	0	-9.43%	30,725,657	-7.49%	640,118	67,494	16,874		
2009	5	1	25.00%	27,961,217	-9.00%	466,020	72,545	14,509		
2010	5	0	0.00%	37,885,731	35.49%	631,429	83,945	16,789		
2011	5	0	0.00%	39,368,359	3.91%	656,139	85,844	17,169		
2012	5	0	0.00%	42,470,244	7.88%	707,837	89,307	17,861	$217,008	
2013	5	0	0.00%	48,528,024	14.26%	808,800	103,015	20,603	$341,406	57.3%
2014	5	0	0.00%	51,432,197	5.98%	857,203	110,732	22,146	$364,426	6.7%
2015 - Bridge Year	5	0	0.00%	51,108,488	-0.63%	851,808	109,361	21,872	$340,213	-6.6%
2016 - Test Year	5	0	0.00%	50,613,209	-0.97%	843,553	108,301	21,660	$461,076	35.5%

Although there has been negligible change in the number of customers in this rate class over the ten-year period of 2005 to 2014, the total consumption has more than doubled over the same period – a 113% increase. This is most noticeable in 2012 onwards when the three manufacturing customers increased plant production, indicating signs of recovery from the 2008/2009 Global Recession. Customers in this rate class have also worked with WNP in energy conservation programs, particularly since 2012.

WNP has observed these customers load patterns steadily increasing, to the extent that one of the customers is seeking an increase in their kW demand at their plant. This customer's specific demand increase is referenced in a letter to the utility and included in WNP's 2015 Distribution System Plan in Exhibit 2 - Appendix 2A, "Stakeholder Letters supporting the second feeder" to the town of Mount Forest.

Distribution revenue since 2013 has continued to increase in-line with kW energy demand. The 2016 Test Year increase is due to updating the cost-to-revenue ratios for this customer class (as discussed in Exhibit 7).

Street Lighting and Sentinel Lighting rate class show that connections have also been historically stable as depicted in the tables below, with WNP predicting no connection growth for these classes:

Table 3.46: Street Lights Variance

Street Lights										
Year	Connection	# Change	% Change	kWh	% Change	Average kWh per Month	kW		Distribution Revenue	% Change
2005	942			728,596		60,716	1,998			
2006	942	0	0.00%	731,832	0.44%	60,986	2,010			
2007	942	0	0.00%	727,707	-0.56%	60,642	2,007			
2008	942	0	0.00%	748,942	2.92%	62,412	2,048			
2009	900	-42	-4.46%	738,099	-1.45%	61,508	2,026			
2010	900	0	0.00%	720,757	-2.35%	60,063	1,981			
2011	899	-1	-0.11%	713,439	-1.02%	59,453	1,964			
2012	898	-1	-0.11%	715,663	0.31%	59,639	1,963		$73,220	
2013	900	2	0.17%	718,528	0.40%	59,877	1,978		$93,334	27.5%
2014	905	6	0.61%	720,704	0.30%	60,059	1,983		$94,101	0.8%
2015 - Bridge Year	905	0	0.00%	723,044	0.32%	60,254	1,988		$93,908	-0.2%
2016 - Test Year	905	0	0.00%	725,392	0.32%	60,449	1,995		$61,123	-34.9%

Distribution revenue in 2012 is lower than compared to 2013 due to WNP's 2012 Cost of Service applications rates being implemented on October 1st 2012 (EB-2011-0249) therefore this year did not reflect a complete 12 months on the revised rates. The 2016 Test Year decrease is due to updating the cost-to-revenue ratios for this customer class (as discussed in Exhibit 7).

Table 3.47: Sentinel Lights Variance

Sentinel Lights										
Year	Connection	# Change	% Change	kWh	% Change	Average kWh per Month	kW		Distribution Revenue	% Change
2005	23			39,379		3,282	1,998			
2006	23	0	0.00%	38,909	-1.19%	3,242	2,010			
2007	24	1	2.90%	38,081	-2.13%	3,173	2,007			
2008	34	11	44.72%	36,606	-3.87%	3,050	2,048			
2009	31	-4	-10.95%	33,138	-9.47%	2,761	2,026			
2010	28	-3	-8.20%	31,636	-4.53%	2,636	1,981			
2011	28	0	0.00%	28,024	-11.42%	2,335	1,964			
2012	28	0	0.00%	26,093	-6.89%	2,174	1,963		$3,963	
2013	28	0	0.00%	26,093	0.00%	2,174	1,978		$3,121	-21.2%
2014	28	0	0.00%	25,478	-2.36%	2,123	1,983		$3,079	-1.3%
2015 - Bridge Year	29	1	2.21%	24,275	-4.72%	2,023	1,988		$3,099	0.7%
2016 - Test Year	29	1	2.21%	23,128	-4.72%	1,927	1,995		$5,560	79.4%

The 2016 Test Year increase is due to updating the cost-to-revenue ratios for this customer class (as discussed in Exhibit 7).

The Unmetered Scattered Load connection count has been steadily declining over the past 10 years as shown in Table 3.47 below.

Table 3.48: Unmetered Scattered Load

Unmetered Scattered Load								
Year	Connection	# Change	% Change	kWh	% Change	Average kWh per Connection	Distribution Revenue	% Change
2005	13			101,904		7,839		
2006	13	0	-0.64%	101,877	-0.03%	7,887		
2007	10	-3	-26.45%	82,586	-18.94%	8,693		
2008	3	-6	-66.67%	20,724	-74.91%	6,544		
2009	2	-1	-31.58%	7,536	-63.64%	3,478		
2010	1	-1	-53.85%	9,732	29.14%	9,732		
2011	1	0	0.00%	7,536	-22.56%	7,536		
2012	1	0	0.00%	7,563	0.36%	7,563	$241	
2013	2	1	58.33%	5,733	-24.20%	3,621	$332	38.0%
2014	1	-1	-36.84%	5,733	0.00%	5,733	$351	5.9%
2015 - Bridge Year	1	0	0.00%	4,164	-27.37%	4,164	$261	-25.7%
2016 - Test Year	1	0	0.00%	3,024	-27.37%	3,024	$256	-1.9%

WNP agrees with the model projections which predict no growth in connections for either the 2015 Bridge Year of 2016 Test Year. Distribution revenues for this rate class have been inconsistent between 2012 to 2014 corresponding fluctuations in energy consumption. The 2016 Test Year decrease is due to updating the cost-to-revenue ratios for this customer class (as discussed in Exhibit 7).

In summary, WNP anticipates a slight increase in customer numbers Residential rate class and all other classes to remain constant when compared to the latest actuals of 2014. The increase in customers in this rate class however is being off-set by reduced average consumption (referred to as "baseload" energy consumption) is often offset by the additional transitioning to energy efficient lighting, appliances and other energy efficient changes.

WNP anticipates the General Service 1000-4999kW class energy consumption to level-out as customers and not to increase at the dramatic rate experienced in 2012 and 2013. WNP is engaged with the customers concerning future energy conservation (CDM) programs which support the slight reduction in kWh in the 2016 Test Year when compared to the 2015 Bridge Year.

Table 3.49 below provides details of the variances by rate class.

Table 3.49: Variance Analysis by Class

		2015 Bridge Year	2016 Test Year	% Change
Residential Class	Customers	3,220	3,251	0.94%
	kWh	25,595,036	26,005,466	1.60%
General Service <50kW	Customers	474	476	0.26%
	kWh	11,693,697	11,855,213	1.38%
General Service 50 - 999kW	Customers	38	38	-0.36%
	kWh	14,360,704	13,489,914	-6.06%
	kW	44,272	41,588	-6.06%
General Service 1000 - 4999kW	Customers	5	5	0.00%
	kWh	51,108,488	50,613,209	-0.97%
	kW	109,361	108,301	-0.97%
Street Lights	Connections	905	905	0.00%
	kWh	723,044	725,392	0.32%
	kW	1,988	1,995	0.32%
Sentinel Lights	Connections	29	29	2.21%
	kWh	24,275	23,128	-4.72%
	kW	68	65	-4.72%
Unmetered Scattered Load	Connections	1	1	0.00%
	kWh	4,164	3,024	-27.37%
Total	Customers /	4,673	4,705	0.69%
	kWh	103,509,409	102,715,347	-0.77%
	kW	155,690	151,949	-2.40%

Table 3.50 below presents the actual average use per customer, by customer class, showing the historical and adjusted forecast average use per customer generated from using the load forecast. The average kWh per customer for the period 2005 to 2014 is based on actual weather; whereas the 2015 Bridge Year and 2016 Test Year is based on the weather normalized forecast. As can be seen from the results below, the predicted use per customer follows the trend created from its historical usage per customer.

Table 3.50: Average per Customer / Connection

	Residential Class		General Service <50kW		General Service 50 - 999kW		General Service 1000 - 4999kW		Street Lights		Sentinel Lights		Unmetered Scattered Load	
	per Customer per month kWh	per Customer kW	per Customer per month kWh	per Customer kW	per Customer per month kWh	per Customer kW	per Customer per month kWh	per Customer kW	Average kWh per month	kW	Average kWh per month	kW	per Connection kWh	per Connection kW
2005	733		2,170		63,193	1,151	401,657	17,249	60,716	1,998	3,282	1,998	7,839	
2006	719		2,177		64,902	1,331	428,694	18,013	60,986	2,010	3,242	2,010	7,887	
2007	705		2,184		52,116	1,865	626,653	15,585	60,642	2,007	3,173	2,007	8,693	
2008	698		2,099		51,158	1,800	640,118	16,874	62,412	2,048	3,050	2,048	6,544	
2009	690		2,060		40,568	1,508	466,020	14,509	61,508	2,026	2,761	2,026	3,478	
2010	683		1,970		43,887	1,566	631,429	16,789	60,063	1,981	2,636	1,981	9,732	
2011	693		2,055		46,606	1,711	656,139	17,169	59,453	1,964	2,335	1,964	7,536	
2012	661		2,043		48,281	1,789	707,837	17,861	59,639	1,963	2,174	1,963	7,563	
2013	669		2,111		37,100	1,396	808,800	20,603	59,877	1,978	2,174	1,978	3,621	
2014	678		2,092		33,987	1,244	857,203	22,146	60,059	1,983	2,123	1,983	5,733	
2015	662		2,055		31,330	1,159	851,808	21,872	60,254	1,988	2,023	1,988	4,164	
2016	667		2,078		29,536	1,093	843,553	21,660	60,449	1,995	1,927	1,995	3,024	

Table 3.50 on the following page is an extract from the Board's Chapter 2 Filing Requirements - Appendix 2-IA and highlights the variances between Actual and Forecast data.

Table 3.51: OEB Appendix 2-IA Summary and Variances of Actual and Forecast Data

Appendix 2-IA
Summary and Variances of Actual and Forecast Data

	2012 Board Approved	2012	2013	2014	2015 Bridge	2016 Test
Rate Class - Residential						
# of Customers	3,160	3,126	3,161	3,190	3,220	3,251
kWh	24,876,519	24,795,447	25,357,835	25,941,256	25,595,036	26,005,466
kW						
Variance Analysis						
# of Customers		-1.07%	0.02%	0.96%	1.91%	2.87%
kWh		-0.33%	1.93%	4.28%	2.89%	4.54%
kW		0.00%	0.00%	0.00%	0.00%	0.00%
Rate Class - General Service <50 kW						
# of Customers	489	478	474	473	474	476
kWh	10,703,832	11,710,253	12,012,886	11,877,868	11,693,697	11,855,213
kW						
Variance Analysis						
# of Customers		-2.30%	-3.02%	-3.25%	-3.01%	-2.76%
kWh		9.40%	12.23%	10.97%	9.25%	10.76%
kW		0.00%	0.00%	0.00%	0.00%	0.00%
Rate Class - General Service 50 - 999 kW						
# of Customers	40	38	39	38	38	38
kWh	19,816,501	21,823,125	17,140,222	15,634,133	14,360,704	13,489,914
kW	50,979	67,391	53,734	47,684	44,272	41,588
Variance Analysis						
# of Customers		-5.83%	-3.75%	-4.17%	-4.51%	-4.85%
kWh		10.13%	-13.51%	-21.11%	-27.53%	-31.93%
kW		32.19%	5.40%	-6.46%	-13.16%	-18.42%
Rate Class - General Service 1000 - 4999 kW						
# of Customers	4	5	5	5	5	5
kWh	42,769,242	42,470,244	48,528,024	51,432,197	51,108,488	50,613,209
kW	97,926	89,307	103,015	110,732	109,361	108,301
Variance Analysis						
# of Customers		25.00%	25.00%	25.00%	25.00%	25.00%
kWh		-0.70%	13.46%	20.26%	19.50%	18.34%
kW		-8.80%	5.20%	13.08%	11.68%	10.59%
Rate Class - Street Lights						
# of Connections	886	898	900	905	905	905
kWh	711,946	715,663	718,528	720,704	723,044	725,392
kW	1,925	1,963	1,978	1,983	1,988	1,995
Variance Analysis						
# of Connections		1.35%	1.52%	2.14%	2.14%	2.14%
kWh		0.52%	0.92%	1.23%	1.56%	1.89%
kW		1.98%	2.76%	3.02%	3.29%	3.63%
Rate Class - Sentinel Lights						
# of Connections	17	28	28	28	29	29
kWh	29,261	26,093	26,093	25,478	24,275	23,128
kW	80	72	72	71	68	65
Variance Analysis						
# of Connections		64.71%	64.71%	64.71%	68.35%	72.07%
kWh		-10.83%	-10.83%	-12.93%	-17.04%	-20.96%
kW		-9.40%	-9.40%	-11.53%	-14.69%	-18.72%
Rate Class - Unmetered Scattered Load						
# of Connections	1	1	2	1	1	1
kWh	3,969	7,563	5,733	5,733	4,164	3,024
kW						
Variance Analysis						
# of Connections		25.00%	58.33%	16.67%	-10.75%	-31.72%
kWh		90.55%	44.44%	44.44%	4.91%	-23.80%
kW		0.00%	0.00%	0.00%	0.00%	0.00%
Totals						
Customers / Connections	4,597	4,574	4,607	4,641	4,672	4,704
kWh	98,911,270	101,548,388	103,789,320	105,637,369	103,509,409	102,715,347
kW from applicable classes	150,910	158,734	158,799	160,470	155,690	151,949
Totals - Variance						
Customers / Connections		-0.50%	0.22%	0.96%	1.64%	2.34%
kWh		2.67%	4.93%	6.80%	4.65%	3.85%
kW from applicable classes		5.18%	5.23%	6.34%	3.17%	0.69%

Other Revenues

Ex.3/Tab 5/Schedule 1 - Overview of Other Revenue

Other Distribution Revenues are revenues that are distribution related but are sourced from means other than distribution rates. For this reason, other revenues are deducted from WNP's proposed Revenue Requirement. Further details on the derivation of the Revenue Requirement are presented at Exhibit 6.

Other Distribution Revenues includes items such as:

- Specific Service Charges
- Late Payment Charges
- Other Distribution Revenues
- Other Income and Expenses

OEB Appendix 2-F Other Operating Revenues

A detailed breakdown of Other Operating Revenue by USoA account is shown in Table 3.52 below (derived from the Board's Filing Requirements Chapter 2 model Appendix 2-H)

Table 3.52: Other Operating Revenue (Chapter 2 Filing Requirements - Appendix 2-H

Appendix 2-H
Other Operating Revenue

USoA #	USoA Description	2012 Board Appr.	2012 Actual	2013 Actual[2]	Actual Year[2]	Bridge Year[2]	Test Year
		2012	2012	2013	2014	2015	2016
	Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS
4235	Specific Service Charges	-$ 57,043	-$ 55,389	-$ 52,799	-$ 52,388	-$ 58,115	-$ 60,474
4225	Late Payment Charges	-$ 26,047	-$ 28,204	-$ 26,086	-$ 26,748	-$ 27,012	-$ 27,012
4082	Retail Services Revenues	-$ 8,679	-$ 6,867	-$ 6,317	-$ 5,960	-$ 5,943	-$ 5,948
4084	4084-Service Transaction Requests (STR) Revenues	-$ 199	-$ 113	-$ 49	-$ 72	-$ 55	-$ 49
4086	4086-SSS Administration Revenue	-$ 13,792	-$ 13,722	-$ 13,822	-$ 13,923	-$ 14,017	-$ 14,113
4205	4205-Interdepartmental Rents	$ -	$ -	$ -	$ -	$ -	$ -
4210	4210-Rent from Electric Property	-$ 27,267	-$ 28,341	-$ 28,685	-$ 28,208	-$ 27,870	-$ 27,826
4245	4245-Government Assistance Directly Credited to Income	$ -	$ -	$ -	$ -	-$ 12,865	-$ 14,165
4325	4325-Revenues from Merchandise Jobbing, Etc.	-$ 26,527	-$ 31,749	-$ 50	$ -	$ -	$ -
4330	4330-Costs and Expenses of Merchandising Jobbing, Etc.	$ 21,928	$ 19,730	-$ 185	$ -	$ -	$ -
4355	4355-Gain on Disposition of Utility and Other Property	$ -	-$ 123	-$ 5,000	-$ 17,500	-$ 2,500	-$ 2,000
4360	4360-Loss on Disposition of Utility and Other Property	$ -	$ 5,076	$ 21,426	$ 17,006	$ 12,000	$ 12,500
4375	4375-Revenues from Non-Utility Operations	-$ 141,661	-$ 22,691	-$ 40,716	-$ 133,253	-$ 135,000	-$ 140,000
4380	4380-Expenses of Non-Utility Operations	$ 139,262	$ 34,732	$ 42,658	$ 128,838	$ 130,000	$ 134,000
4390	4390-Miscellaneous Non-Operating Income	-$ 150	-$ 7,459	-$ 135	-$ 1,512	-$ 1,500	-$ 1,500
4405	4405-Interest and Dividend Income	-$ 9,818	-$ 21,481	-$ 18,325	-$ 21,037	-$ 5,000	-$ 4,000
Specific Service Charges		-$ 57,043	-$ 55,389	-$ 52,799	-$ 52,388	-$ 58,115	-$ 60,474
Late Payment Charges		-$ 26,047	-$ 28,204	-$ 26,086	-$ 26,748	-$ 27,012	-$ 27,012
Other Operating Revenues		-$ 49,937	-$ 49,043	-$ 48,873	-$ 48,162	-$ 60,751	-$ 62,102
Other Income or Deductions		-$ 16,965	-$ 23,963	-$ 326	-$ 27,459	-$ 2,000	-$ 1,000
Total		-$ 149,992	-$ 156,599	-$ 128,084	-$ 154,757	-$ 147,878	-$ 150,588

Accounts 4082, 4084, 4086, 4210 4245 Revenue

	2012 Board Appr.	2012 Actual	2013 Actual[2]	Actual Year[2]	Bridge Year[2]	Test Year
	2012	2012	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS
4082-Retail Service Revenues	-$ 8,679	-$ 6,867	-$ 6,317	-$ 5,960	-$ 5,943	-$ 5,948
4084-Service Transaction Requests (STR) Revenues	-$ 199	-$ 113	-$ 49	-$ 72	-$ 55	-$ 49
4086-SSS Administration Revenue	-$ 13,792	-$ 13,722	-$ 13,822	-$ 13,923	-$ 14,017	-$ 14,113
4210-Rent from Electrical Property	-$ 27,267	-$ 28,341	-$ 28,685	-$ 28,208	-$ 27,870	-$ 27,826
4245-Gov't and Other Assistance Directly Credited to Income	$ -	$ -	$ -	$ -	-$ 12,865	-$ 14,165
Total (Other Distribution/Operating Revenues)	-$ 49,937	-$ 49,043	-$ 48,873	-$ 48,162	-$ 60,751	-$ 62,102

Account 4360,4365 Gains and Losses

	2012 Board Appr.	2012 Actual	2013 Actual[2]	Actual Year[2]	Bridge Year[2]	Test Year
	2012	2012	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS
4360-Loss on Disposition of Assets	$ -	-$ 123	-$ 5,000	-$ 17,500	-$ 2,500	-$ 2,000
4365-Gains from Disposition of Assets	$ -	$ 5,076	$ 21,426	$ 17,006	$ 12,000	$ 12,500
Total	$ -	$ 4,953	$ 16,426	-$ 494	$ 9,500	$ 10,500

Account 4405 - Interest and Dividend Income

	2012 Board Appr.	2012 Actual	2013 Actual[2]	Actual Year[2]	Bridge Year[2]	Test Year
	2012	2012	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS
Short-term Investment Interest	$ -	-$ 359	-$ 359	-$ 269	-$ 270	-$ 270
Bank Deposit Interest	$ -	-$ 6,848	-$ 9,210	-$ 13,511	-$ 3,780	-$ 2,500
Miscellaneous Interest Revenue	$ -	-$ 14,275	-$ 8,756	-$ 7,257	-$ 950	-$ 1,230
Total	-$ 9,818	-$ 21,481	-$ 18,325	-$ 21,038	-$ 5,000	-$ 4,000

Table 3.52 / continued: Other Operating Revenue (Chapter 2 Filing Requirements - Appendix 2-H

Appendix 2-H
Other Operating Revenue

Account 4390 - Misc Non-operating Income

	2012 Board Appr.	2012 Actual	2013 Actual[2]	Actual Year[2]	Bridge Year[2]	Test Year
	2012	2012	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS
4390 - Misc Non-operating Income	-$ 150	-$ 7,459	-$ 135	-$ 1,512	-$ 1,500	-$ 1,500
Total	-$ 150	-$ 7,459	-$ 135	-$ 1,512	-$ 1,500	-$ 1,500

Account 4375 - Non Rate Regulated Revenue

	2012 Board Appr.	2012 Actual	2013 Actual[2]	Actual Year[2]	Bridge Year[2]	Test Year
	2012	2012	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS
Outside Jobs	$ -	-$ 19,983	-$ 37,060	-$ 47,822	-$ 48,000	-$ 52,000
Water & Sewer Billing	$ -	-$ 82,675	-$ 89,527	-$ 85,431	-$ 87,000	-$ 88,000
Total	-$ 141,661	-$ 102,658	-$ 126,587	-$ 133,253	-$ 135,000	-$ 140,000

Account 4380 - Non Rate Regulated Expenses

	2012 Board Appr.	2012 Actual	2013 Actual[2]	Actual Year[2]	Bridge Year[2]	Test Year
	2012	2012	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS
Job Labour	$ -	$ 9,321	$ 28,879	$ 32,351	$ 27,500	$ 30,000
Materials & Equipment	$ -	$ 24,225	$ 11,533	$ 10,860	$ 15,000	$ 15,000
W & S Billing Labour	$ -	$ 60,513	$ 63,886	$ 61,970	$ 62,000	$ 62,000
Materials, Support & Admin	$ -	$ 20,639	$ 22,097	$ 20,918	$ 21,000	$ 22,000
Contract Labour	$ -	$ -	$ 2,133	$ 2,739	$ 4,500	$ 5,000
Total	$ 139,262	$ 114,699	$ 128,529	$ 128,838	$ 130,000	$ 134,000

Account 4325,4330 Revenue & Expenses

	2012 Board Appr.	2012 Actual	2013 Actual[2]	Actual Year[2]	Bridge Year[2]	Test Year
	2012	2012	2013	2014	2015	2016
Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS
4325-Revenues from Merchandice Jobbing Etc.	-$ 26,527	-$ 31,749	-$ 50	$ -	$ -	$ -
4330-Expenses of Merchandice Jobbing Etc.	$ 21,928	$ 19,730	-$ 185	$ -	$ -	$ -
Total	-$ 4,599	-$ 12,019	-$ 235	$ -	$ -	$ -

Ex.3/Tab 4/Sch.2 - Other Revenue Variance Analysis

Tables 3.53 to 3.57 below presents year over year variances of other operating revenues:

Table 3.53: Variance Analysis of Other Operating Revenues:
– 2012 Board Approved to 2012 Actual

	Reporting Basis	CGAAP	CGAAP	Var Analysis	Var Analysis
		2012	2012	$	%
	USoA Description	**Board Approved**			
4235	**4235-Miscellaneous Service Revenues**	-$57,043	-$55,389	$1,654	2.90%
4225	**4225-Late Payment Charges**	-$26,047	-$28,204	-$2,157	8.28%
4082	4082-Retail Services Revenues	-$8,679	-$6,867	$1,813	20.88%
4084	4084-Service Transaction Requests (STR) Revenues	-$199	-$113	$86	43.19%
4086	4086-SSS Administration Revenue	-$13,792	-$13,722	$70	0.51%
4205	4205-Interdepartmental Rents	$0	$0	$0	
4210	4210-Rent from Electric Property	-$27,267	-$28,341	-$1,074	3.94%
4215	4215-Other Utility Operating Income	$0	$0	$0	
4220	4220-Other Electric Revenues	$0	$0	$0	
4240	4240-Provision for Rate Refunds	$0	$0	$0	
4245	4245-Government Assistance Directly Credited to Income	$0	$0	$0	
		$0	$0	$0	
4305	4305-Regulatory Debits	$0	$0	$0	
4310	4310-Regulatory Credits	$0	$0	$0	
4315	4315-Revenues from Electric Plant Leased to Others	$0	$0	$0	
4320	4320-Expenses of Electric Plant Leased to Others	$0	$0	$0	
4324	4324-Special Purpose Charge Recovery	$0	$0	$0	
4325	4325-Revenues from Merchandise Jobbing, Etc.	-$26,527	-$31,749	-$5,221	19.68%
4330	4330-Costs and Expenses of Merchandising Jobbing, Etc.	$21,928	$19,730	-$2,198	10.02%
4335	4335-Profits and Losses from Financial Instrument Hedges	$0	$0	$0	
4340	4340-Profits and Losses from Financial Instrument Investments	$0	$0	$0	
4345	4345-Gains from Disposition of Future Use Utility Plant	$0	$0	$0	
4350	4350-Losses from Disposition of Future Use Utility Plant	$0	$0	$0	
4355	4355-Gain on Disposition of Utility and Other Property	$0	-$123	-$123	
4360	4360-Loss on Disposition of Utility and Other Property	$0	$5,076	$5,076	
4365	4365-Gains from Disposition of Allowances for Emission	$0	$0	$0	
4370	4370-Losses from Disposition of Allowances for Emission	$0	$0	$0	
4375	4375-Revenues from Non-Utility Operations	-$141,661	-$22,691	$118,970	83.98%
4375	4375-Sub-account Generation Facility Revenues	$0	$0	$0	
4380	4380-Expenses of Non-Utility Operations	$139,262	$34,732	-$104,530	75.06%
4380	4380-Sub-account Generation Facility Expenses	$0	$0	$0	
4385	4385-Non-Utility Rental Income	$0	$0	$0	
4390	4390-Miscellaneous Non-Operating Income	-$150	-$7,459	-$7,309	4872.45%
4395	4395-Rate-Payer Benefit Including Interest	$0	$0	$0	
4398	4398-Foreign Exchange Gains and Losses, Including Amortization	$0	$0	$0	
4405	4405-Interest and Dividend Income	-$9,818	-$21,481	-$11,663	118.80%
	Total	-$149,992	-$156,599	-$6,606	4.40%
	Specific Service Charges	-$57,043	-$55,389	$1,654	2.90%
	Late Payment Charges	-$26,047	-$28,204	-$2,157	8.28%
	Other Distribution/Operating Revenues	-$49,937	-$49,043	$895	1.79%
	Other Income or Deductions	-$16,965	-$23,963	-$6,998	41.25%
	Total	-$149,992	-$156,599	-$6,606	4.40%

Between 2012 Board Approved and 2012 Actual, Account 4082 and 4084 show a decrease of 21% and 43% respectively. This reflects a decrease in the number of retailer contracts.

For 4325, and 4330 there are also large variations. Some confusion existed as to what was to be allocated to these accounts and the 4375 and 4380 accounts. As a result, in 2013 and onward all revenue was allocated to the 4375 and 4380 accounts. When a temporary

contracted person was in place to cover for a maternity leave, an anomaly occurred in 2012 and 2013 with the 4375 and 4380 accounts. Instead of expenses to earn the Non-Utility income being allocated to 4380, some were assigned directly to the 4375 income accounts. This left the balances in these accounts very low. The correct values are recorded in the detailed breakdown of the 4375 and 4380 accounts in table 3.48 and the difference between income and expenses is equal.

The 4390 account is the income from scrap sales, which saw a very large increase in 2012. Interest revenue from account 4405 was also high due to bank and regulatory account balances.

Table 3.54: Variance Analysis of Other Operating Revenues – 2013 to 2012

	Reporting Basis	CGAAP	CGAAP	Var Analysis	Var Analysis
		2012	2013	$	%
	USoA Description				
4235	**4235-Miscellaneous Service Revenues**	-$55,389	-$52,799	$2,590	4.68%
4225	**4225-Late Payment Charges**	-$28,204	-$26,086	$2,118	7.51%
4082	4082-Retail Services Revenues	-$6,867	-$6,317	$550	8.01%
4084	4084-Service Transaction Requests (STR) Revenues	-$113	-$49	$64	56.64%
4086	4086-SSS Administration Revenue	-$13,722	-$13,822	-$100	0.73%
4205	4205-Interdepartmental Rents	$0	$0	$0	
4210	4210-Rent from Electric Property	-$28,341	-$28,685	-$344	1.22%
4215	4215-Other Utility Operating Income	$0	$0	$0	
4220	4220-Other Electric Revenues	$0	$0	$0	
4240	4240-Provision for Rate Refunds	$0	$0	$0	
4245	4245-Government Assistance Directly Credited to Income	$0	$0	$0	
		$0	$0	$0	
4305	4305-Regulatory Debits	$0	$0	$0	
4310	4310-Regulatory Credits	$0	$0	$0	
4315	4315-Revenues from Electric Plant Leased to Others	$0	$0	$0	
4320	4320-Expenses of Electric Plant Leased to Others	$0	$0	$0	
4324	4324-Special Purpose Charge Recovery	$0	$0	$0	
4325	4325-Revenues from Merchandise Jobbing, Etc.	-$31,749	-$50	$31,699	99.84%
4330	4330-Costs and Expenses of Merchandising Jobbing, Etc.	$19,730	-$185	-$19,915	100.94%
4335	4335-Profits and Losses from Financial Instrument Hedges	$0	$0	$0	
4340	4340-Profits and Losses from Financial Instrument Investments	$0	$0	$0	
4345	4345-Gains from Disposition of Future Use Utility Plant	$0	$0	$0	
4350	4350-Losses from Disposition of Future Use Utility Plant	$0	$0	$0	
4355	4355-Gain on Disposition of Utility and Other Property	-$123	-$5,000	-$4,877	3965.04%
4360	4360-Loss on Disposition of Utility and Other Property	$5,076	$21,426	$16,350	322.07%
4365	4365-Gains from Disposition of Allowances for Emission	$0	$0	$0	
4370	4370-Losses from Disposition of Allowances for Emission	$0	$0	$0	
4375	4375-Revenues from Non-Utility Operations	-$22,691	-$40,716	-$18,025	79.44%
4375	4375-Sub-account Generation Facility Revenues	$0	$0	$0	
4380	4380-Expenses of Non-Utility Operations	$34,732	$42,658	$7,926	22.82%
4380	4380-Sub-account Generation Facility Expenses	$0	$0	$0	
4385	4385-Non-Utility Rental Income	$0	$0	$0	
4390	4390-Miscellaneous Non-Operating Income	-$7,459	-$135	$7,323	98.19%
4395	4395-Rate-Payer Benefit Including Interest	$0	$0	$0	
4398	4398-Foreign Exchange Gains and Losses, Including Amortization	$0	$0	$0	
4405	4405-Interest and Dividend Income	-$21,481	-$18,325	$3,156	14.69%
	Total	-$156,599	-$128,084	$28,514	18.21%
	Specific Service Charges	-$55,389	-$52,799	$2,590	4.68%
	Late Payment Charges	-$28,204	-$26,086	$2,118	7.51%
	Other Distribution/Operating Revenues	-$49,043	-$48,873	$170	0.35%
	Other Income or Deductions	-$23,963	-$326	$23,637	98.64%
	Total	-$156,599	-$128,084	$28,514	18.21%

- Between 2012 and 2013 retailer contracts decreased and resulted in an 8% decrease in 4082 revenue.
- The amounts in 4084 are very small which result in large percentage changes, even though the dollar amounts are negligible.
- For 4325, and 4330 there are also large variations due to the fact that the 4375 and 4380 accounts are being used instead. As a result of fixed asset purchases and retirements there was very large variations in the 4355 and 4360 accounts, but this income and expense are not controllable.
- When a temporary contracted person was in place to cover for a maternity leave, an anomaly occurred in 2012 and 2013 with the 4375 and 4380 accounts. Instead of expenses

to earn the Non-Utility income being allocated to 4380, they were assigned directly to the 4375 income accounts. This left the balances in these accounts very low. The correct values are recorded in the detailed breakdown of the 4375 and 4380 accounts in table 3.49 and the difference between income and expenses is equal so there is no net effect because of this problem.

- The 4390 account is the income from scrap sales, and returned to normal levels from the high values of 2012.
- Interest revenue from account 4405 dropped almost 15% due to the disposition of regulatory balances.

Table 3.55: Variance Analysis of Other Operating Revenues – 2014 to 2013

	Reporting Basis	CGAAP	CGAAP	Var Analysis	Var Analysis
		2013	2014	$	%
	USoA Description				
4235	**4235-Miscellaneous Service Revenues**	-$52,799	-$52,388	$411	0.78%
4225	**4225-Late Payment Charges**	-$26,086	-$26,748	-$662	2.54%
4082	4082-Retail Services Revenues	-$6,317	-$5,960	$357	5.65%
4084	4084-Service Transaction Requests (STR) Revenues	-$49	-$72	-$23	45.92%
4086	4086-SSS Administration Revenue	-$13,822	-$13,923	-$101	0.73%
4205	4205-Interdepartmental Rents	$0	$0	$0	
4210	4210-Rent from Electric Property	-$28,685	-$28,208	$478	1.66%
4215	4215-Other Utility Operating Income	$0	$0	$0	
4220	4220-Other Electric Revenues	$0	$0	$0	
4240	4240-Provision for Rate Refunds	$0	$0	$0	
4245	4245-Government Assistance Directly Credited to Income	$0	$0	$0	
		$0	$0	$0	
4305	4305-Regulatory Debits	$0	$0	$0	
4310	4310-Regulatory Credits	$0	$0	$0	
4315	4315-Revenues from Electric Plant Leased to Others	$0	$0	$0	
4320	4320-Expenses of Electric Plant Leased to Others	$0	$0	$0	
4324	4324-Special Purpose Charge Recovery	$0	$0	$0	
4325	4325-Revenues from Merchandise Jobbing, Etc.	-$50	$0	$50	100.00%
4330	4330-Costs and Expenses of Merchandising Jobbing, Etc.	-$185	$0	$185	100.00%
4335	4335-Profits and Losses from Financial Instrument Hedges	$0	$0	$0	
4340	4340-Profits and Losses from Financial Instrument Investments	$0	$0	$0	
4345	4345-Gains from Disposition of Future Use Utility Plant	$0	$0	$0	
4350	4350-Losses from Disposition of Future Use Utility Plant	$0	$0	$0	
4355	4355-Gain on Disposition of Utility and Other Property	-$5,000	-$17,500	-$12,500	250.00%
4360	4360-Loss on Disposition of Utility and Other Property	$21,426	$17,006	-$4,420	20.63%
4365	4365-Gains from Disposition of Allowances for Emission	$0	$0	$0	
4370	4370-Losses from Disposition of Allowances for Emission	$0	$0	$0	
4375	4375-Revenues from Non-Utility Operations	-$40,716	-$133,253	-$92,537	227.27%
4375	4375-Sub-account Generation Facility Revenues	$0	$0	$0	
4380	4380-Expenses of Non-Utility Operations	$42,658	$128,838	$86,179	202.02%
4380	4380-Sub-account Generation Facility Expenses	$0	$0	$0	
4385	4385-Non-Utility Rental Income	$0	$0	$0	
4390	4390-Miscellaneous Non-Operating Income	-$135	-$1,512	-$1,377	1017.68%
4395	4395-Rate-Payer Benefit Including Interest	$0	$0	$0	
4398	4398-Foreign Exchange Gains and Losses, Including Amortization	$0	$0	$0	
4405	4405-Interest and Dividend Income	-$18,325	-$21,037	-$2,713	14.80%
	Total	-$128,084	-$154,757	-$26,672	20.82%
	Specific Service Charges	-$52,799	-$52,388	$411	0.78%
	Late Payment Charges	-$26,086	-$26,748	-$662	2.54%
	Other Distribution/Operating Revenues	-$48,873	-$48,162	$711	1.46%
	Other Income or Deductions	-$326	-$27,459	-$27,132	8311.61%
	Total	-$128,084	-$154,757	-$26,672	20.82%

- Between 2013 and 2014 retailer contracts decreased and resulted in a 5.7% decrease in 4082 revenue.
- The amounts in 4084 are very small which result in large percentage changes, even though the dollar amounts are negligible.
- The accounts 4235, 4225, 4086 and 4210 all remain quite stable from year to year. Accounts 4325 and 4330 are no longer used.
- As a result of fixed asset purchases and retirements there was very large variations in the 4355 and 4360 accounts, but this income and expense are not controllable.
- Losses on fixed assets are mostly due to the high rate of failure for smart meters.

- In 2014, Non-Utility Income and expenses (4375 and 4380) were recorded correctly and though this represents a large increase in this year, the amounts are much more in line with the board approved values for these accounts.
- The 4390 account is the income from scrap sales, and though the percentage increase is large, it is not a controllable factor.
- Interest revenue from account 4405 increased almost 15% due to high bank balances during the year. A couple of loans were received late in 2013 and the capital projects that this money funded were not completed until late in 2014.

Table 3.56: Variance Analysis of Other Operating Revenues – 2015 Bridge Year to 2014

	Reporting Basis	CGAAP	MIFRS	Var Analysis	Var Analysis
		2014	2015	$	%
	USoA Description				
4235	**4235-Miscellaneous Service Revenues**	-$52,388	-$58,115	-$5,726	10.93%
4225	**4225-Late Payment Charges**	-$26,748	-$27,012	-$265	0.99%
4082	4082-Retail Services Revenues	-$5,960	-$5,943	$16	0.28%
4084	4084-Service Transaction Requests (STR) Revenues	-$72	-$55	$17	23.78%
4086	4086-SSS Administration Revenue	-$13,923	-$14,017	-$94	0.68%
4205	4205-Interdepartmental Rents	$0	$0	$0	
4210	4210-Rent from Electric Property	-$28,208	-$27,870	$337	1.20%
4215	4215-Other Utility Operating Income	$0	$0	$0	
4220	4220-Other Electric Revenues	$0	$0	$0	
4240	4240-Provision for Rate Refunds	$0	$0	$0	
4245	4245-Government Assistance Directly Credited to Income	$0	-$12,865	-$12,865	
		$0	$0	$0	
4305	4305-Regulatory Debits	$0	$0	$0	
4310	4310-Regulatory Credits	$0	$0	$0	
4315	4315-Revenues from Electric Plant Leased to Others	$0	$0	$0	
4320	4320-Expenses of Electric Plant Leased to Others	$0	$0	$0	
4324	4324-Special Purpose Charge Recovery	$0	$0	$0	
4325	4325-Revenues from Merchandise Jobbing, Etc.	$0	$0	$0	
4330	4330-Costs and Expenses of Merchandising Jobbing, Etc.	$0	$0	$0	
4335	4335-Profits and Losses from Financial Instrument Hedges	$0	$0	$0	
4340	4340-Profits and Losses from Financial Instrument Investments	$0	$0	$0	
4345	4345-Gains from Disposition of Future Use Utility Plant	$0	$0	$0	
4350	4350-Losses from Disposition of Future Use Utility Plant	$0	$0	$0	
4355	4355-Gain on Disposition of Utility and Other Property	-$17,500	-$2,500	$15,000	85.71%
4360	4360-Loss on Disposition of Utility and Other Property	$17,006	$12,000	-$5,006	29.44%
4365	4365-Gains from Disposition of Allowances for Emission	$0	$0	$0	
4370	4370-Losses from Disposition of Allowances for Emission	$0	$0	$0	
4375	4375-Revenues from Non-Utility Operations	-$133,253	-$135,000	-$1,747	1.31%
4375	4375-Sub-account Generation Facility Revenues	$0	$0	$0	
4380	4380-Expenses of Non-Utility Operations	$128,838	$130,000	$1,162	0.90%
4380	4380-Sub-account Generation Facility Expenses	$0	$0	$0	
4385	4385-Non-Utility Rental Income	$0	$0	$0	
4390	4390-Miscellaneous Non-Operating Income	-$1,512	-$1,500	$12	0.79%
4395	4395-Rate-Payer Benefit Including Interest	$0	$0	$0	
4398	4398-Foreign Exchange Gains and Losses, Including Amortization	$0	$0	$0	
4405	4405-Interest and Dividend Income	-$21,037	-$5,000	$16,037	76.23%
	Total	-$154,757	-$147,878	$6,879	4.45%
	Specific Service Charges	-$52,388	-$58,115	-$5,726	10.93%
	Late Payment Charges	-$26,748	-$27,012	-$265	0.99%
	Other Distribution/Operating Revenues	-$48,162	-$60,751	-$12,589	26.14%
	Other Income or Deductions	-$27,459	-$2,000	$25,459	92.72%
	Total	-$154,757	-$147,878	$6,879	4.45%

- Between 2014 and 2015 Account 4235 is projected to increase 11% based on increased activity.
- The amounts in 4084 are very small which result in large percentage changes, even though the dollar amounts are negligible.
- The accounts 4082, 4225, 4086, and 4210 all remained quite stable from the previous year.
- Account 4245 is being used now to record the deferred revenue allocations. This is new for MIFRS.
- As a result of fixed asset purchases and retirements there were large variations in the 4355 and 4360 accounts, but this income and expense are not controllable. Losses on fixed

assets are mostly due to the high rate of failure for smart meters. Though it never is really certain what chargeable jobs will occur.

- Non-Utility Income and expenses in 4375 and 4380 are relatively stable.
- Interest revenue from account 4405 is projected to decrease dramatically, due to much lower bank and regulatory balances as well as a lower interest rate.

Table 3.57: Variance Analysis of Other Operating Revenues – 2015 Bridge Year to 2016 Test Year

	Reporting Basis	MIFRS 2015	MIFRS 2016	Var Analysis $	Var Analysis %
	USoA Description				
4235	**4235-Miscellaneous Service Revenues**	-$58,115	-$60,474	-$2,360	4.06%
4225	**4225-Late Payment Charges**	-$27,012	-$27,012	$0	0.00%
4082	4082-Retail Services Revenues	-$5,943	-$5,948	-$5	0.08%
4084	4084-Service Transaction Requests (STR) Revenues	-$55	-$49	$5	9.63%
4086	4086-SSS Administration Revenue	-$14,017	-$14,113	-$96	0.68%
4205	4205-Interdepartmental Rents	$0	$0	$0	
4210	4210-Rent from Electric Property	-$27,870	-$27,826	$45	0.16%
4215	4215-Other Utility Operating Income	$0	$0	$0	
4220	4220-Other Electric Revenues	$0	$0	$0	
4240	4240-Provision for Rate Refunds	$0	$0	$0	
4245	4245-Government Assistance Directly Credited to Income	-$12,865	-$14,165	-$1,300	10.10%
		$0	$0	$0	
4305	4305-Regulatory Debits	$0	$0	$0	
4310	4310-Regulatory Credits	$0	$0	$0	
4315	4315-Revenues from Electric Plant Leased to Others	$0	$0	$0	
4320	4320-Expenses of Electric Plant Leased to Others	$0	$0	$0	
4324	4324-Special Purpose Charge Recovery	$0	$0	$0	
4325	4325-Revenues from Merchandise Jobbing, Etc.	$0	$0	$0	
4330	4330-Costs and Expenses of Merchandising Jobbing, Etc.	$0	$0	$0	
4335	4335-Profits and Losses from Financial Instrument Hedges	$0	$0	$0	
4340	4340-Profits and Losses from Financial Instrument Investments	$0	$0	$0	
4345	4345-Gains from Disposition of Future Use Utility Plant	$0	$0	$0	
4350	4350-Losses from Disposition of Future Use Utility Plant	$0	$0	$0	
4355	4355-Gain on Disposition of Utility and Other Property	-$2,500	-$2,000	$500	20.00%
4360	4360-Loss on Disposition of Utility and Other Property	$12,000	$12,500	$500	4.17%
4365	4365-Gains from Disposition of Allowances for Emission	$0	$0	$0	
4370	4370-Losses from Disposition of Allowances for Emission	$0	$0	$0	
4375	4375-Revenues from Non-Utility Operations	-$135,000	-$140,000	-$5,000	3.70%
4375	4375-Sub-account Generation Facility Revenues	$0	$0	$0	
4380	4380-Expenses of Non-Utility Operations	$130,000	$134,000	$4,000	3.08%
4380	4380-Sub-account Generation Facility Expenses	$0	$0	$0	
4385	4385-Non-Utility Rental Income	$0	$0	$0	
4390	4390-Miscellaneous Non-Operating Income	-$1,500	-$1,500	$0	0.00%
4395	4395-Rate-Payer Benefit Including Interest	$0	$0	$0	
4398	4398-Foreign Exchange Gains and Losses, Including Amortization	$0	$0	$0	
4405	4405-Interest and Dividend Income	-$5,000	-$4,000	$1,000	20.00%
	Total	-$147,878	-$150,588	-$2,710	1.83%
	Specific Service Charges	-$58,115	-$60,474	-$2,360	4.06%
	Late Payment Charges	-$27,012	-$27,012	$0	0.00%
	Other Distribution/Operating Revenues	-$60,751	-$62,102	-$1,351	2.22%
	Other Income or Deductions	-$2,000	-$1,000	$1,000	50.00%
	Total	-$147,878	-$150,588	-$2,710	1.83%

- The amounts in 4084 are very small which result in large percentage changes, even though the dollar amounts are negligible.
- The accounts 4235, 4082, 4225, 4086, and 4210 all remained quite stable from the previous year.
- Account 4245 is being used now to record the deferred revenue allocations under MIFRS and this will change based on increases in deferred revenue received.
- As a result of fixed asset purchases and retirements there is some variations in the 4355 and 4360 accounts, but this income and expense are not controllable. Losses on fixed

assets are mostly due to the high rate of failure for smart meters. Though it never is really certain what chargeable jobs will occur.

- Non-Utility Income and expenses in 4375 and 4380 are estimated to be relatively stable.
- Interest revenue from account 4405 is projected to stay low, due to much lower bank and regulatory balances as well as a lower interest rate.

Ex.3/Tab 4/Sch.3 – Proposed Specific Service Charges

WNP proposes to change the current monthly Service Charge for the utility's MicroFIT customer class. WNP incurs a $10.00 monthly fee per MicroFIT meter point from the utility's settlement provider, UtiliSmart. This $10.00 per month per MicroFIT meter point settlement fee pays for the collation of daily interval 15-minute data and calculating the total kWh generated that needs to be deducted from IESO kWh purchases. WNP is invoiced each month for settlement calculation and validation activities performed by the provider; and one line item included in the invoice is represents the number of MicroFIT meters x $10 per MicroFIT meter point.

As the settlement cost is a recoverable expense, in WNP's opinion, the cost for this specific charge associate with MicroFIT data should be recovered directly from the MicroFIT rate class.

Furthermore, in St. Thomas Energy Inc.'s Rate Order (reference EB-2014-0113) dated December 18th 2014, the Board approved the Applicant's request to adjust the MicroFIT service charge to $10.00.

WNP proposes that this charge should be passed onto the utility's MicroFIT customers effective from May 1, 2016 or when the Applicant's 2016 distribution rates are approved by the Board. WNP has provided for this increase in revenue in the Applicant's 2016 revenue offsets.

With the exception of the MicroFIT monthly service charge described above, WNP proposes no other changes to the current Specific Service Charges.

Appendix

List of Appendices

Appendix 3A	Load Forecast – Predicted Purchases for 2005 to 2014
Appendix 3B	Regression Scenarios Performed
Appendix 3C	IESO Final Results Report for Wellington North Power Inc. (CDM) for 2011- 2014

Appendix 3A – Load Forecast – Predicted Purchases for 2005 to 2014

	Unadjusted Wholesale Purchases (kWh)	Generation (MicroFIT and FIT) kWh	Revised Wholesale Purchases kWh	Heating Degree Day	Cooling Degree Day	Number of Days in Month	Number of Peak Hours	Regional Employment	Sensitive Customers (Purchased	Predicted Purchases
Jan-05	9,511,622	0	9,511,622	829.30	0.00	31	320	629.80	2,182,079.51	9,331,210
Feb-05	8,356,417	0	8,356,417	691.00	0.00	28	320	631.30	1,993,852.22	8,473,261
Mar-05	8,891,064	0	8,891,064	708.10	0.00	31	352	628.70	2,205,155.03	9,171,034
Apr-05	7,665,148	0	7,665,148	357.60	0.20	30	336	631.70	2,114,231.86	8,009,171
May-05	7,570,243	0	7,570,243	244.50	0.60	31	336	639.30	2,253,270.25	7,979,599
Jun-05	7,982,091	0	7,982,091	26.90	98.50	30	352	648.60	2,281,683.61	8,223,329
Jul-05	7,604,890	0	7,604,890	13.60	85.30	31	320	653.60	2,007,717.02	7,911,963
Aug-05	8,306,210	0	8,306,210	11.80	62.10	31	352	655.80	2,642,121.67	8,294,697
Sep-05	7,686,742	0	7,686,742	68.20	22.60	30	336	652.30	2,443,235.02	7,770,504
Oct-05	8,151,171	0	8,151,171	273.60	9.40	31	320	649.70	2,551,306.60	8,309,640
Nov-05	8,457,765	0	8,457,765	445.50	0.00	30	352	643.80	2,348,014.98	8,539,677
Dec-05	8,994,173	0	8,994,173	721.80	0.00	31	320	644.50	1,979,573.80	9,008,034
Jan-06	9,308,926	0	9,308,926	626.30	0.00	31	336	643.20	2,472,593.80	9,143,993
Feb-06	8,675,458	0	8,675,458	693.70	0.00	28	320	642.40	2,310,390.59	8,754,095
Mar-06	9,235,190	0	9,235,190	613.60	0.00	31	368	640.80	1,992,557.34	8,934,443
Apr-06	7,771,829	0	7,771,829	328.40	0.00	30	304	643.50	2,226,305.74	7,926,256
May-06	8,018,637	0	8,018,637	176.50	21.20	31	352	652.40	2,485,845.04	8,274,195
Jun-06	7,829,938	0	7,829,938	59.70	29.30	30	352	659.90	2,396,645.86	7,893,980
Jul-06	7,512,883	0	7,512,883	8.60	96.50	31	320	664.50	1,843,098.63	7,949,793
Aug-06	7,987,541	0	7,987,541	39.90	35.30	31	350	666.40	2,395,514.72	8,047,705
Sep-06	7,570,669	0	7,570,669	145.00	2.80	30	320	663.90	2,221,638.26	7,664,817
Oct-06	8,459,920	0	8,459,920	351.80	0.00	31	336	666.20	2,363,022.39	8,493,563
Nov-06	8,646,179	0	8,646,179	420.90	0.00	30	352	665.40	2,449,494.29	8,673,986
Dec-06	8,709,606	0	8,709,606	569.80	0.00	31	304	666.50	2,072,506.43	8,729,597
Jan-07	9,471,440	0	9,471,440	729.30	0.00	31	352	660.70	2,589,945.47	9,673,527
Feb-07	8,867,908	0	8,867,908	793.80	0.00	28	320	654.80	2,252,054.43	9,055,609
Mar-07	9,202,851	0	9,202,851	593.10	0.00	31	352	650.20	2,516,371.78	9,203,319
Apr-07	8,276,828	0	8,276,828	424.30	0.00	30	320	645.10	2,339,264.04	8,336,313
May-07	8,110,169	0	8,110,169	170.30	16.10	31	352	644.40	1,984,082.33	7,841,859
Jun-07	8,194,020	0	8,194,020	55.50	46.30	30	336	649.60	2,548,909.59	7,980,754
Jul-07	7,703,200	0	7,703,200	34.00	43.40	31	336	657.20	2,218,405.13	7,860,510
Aug-07	8,380,226	0	8,380,226	26.30	57.20	31	352	659.20	2,709,923.62	8,358,088
Sep-07	7,710,376	0	7,710,376	83.90	29.40	30	304	657.80	2,380,020.99	7,709,621
Oct-07	8,336,948	0	8,336,948	189.20	15.20	31	352	659.20	2,409,926.87	8,251,677
Nov-07	8,743,245	0	8,743,245	525.90	0.00	30	352	662.80	2,296,535.83	8,834,559
Dec-07	8,907,988	0	8,907,988	696.20	0.00	31	304	664.00	1,866,637.68	8,912,677
Jan-08	9,724,722	0	9,724,722	693.80	0.00	31	352	656.30	2,456,376.39	9,466,512
Feb-08	9,282,696	0	9,282,696	736.00	0.00	29	320	651.20	2,386,869.04	9,096,313
Mar-08	9,335,764	0	9,335,764	698.00	0.00	31	304	642.30	2,419,561.23	9,142,382
Apr-08	8,210,709	0	8,210,709	299.10	1.40	30	352	642.30	2,444,891.81	8,220,031
May-08	7,883,595	0	7,883,595	263.10	0.30	31	336	642.50	2,238,850.97	8,036,396
Jun-08	7,787,375	0	7,787,375	50.30	44.80	30	336	648.20	2,213,271.07	7,728,600
Jul-08	7,815,607	0	7,815,607	19.40	55.10	31	352	653.50	1,931,221.32	7,782,696
Aug-08	7,810,492	0	7,810,492	32.23	28.40	31	320	656.20	2,204,584.23	7,644,411
Sep-08	7,677,287	0	7,677,287	98.80	4.50	30	336	658.80	1,694,540.21	7,258,846
Oct-08	8,247,980	0	8,247,980	329.80	0.00	31	352	661.50	2,236,505.91	8,399,742
Nov-08	8,166,427	0	8,166,427	516.60	0.00	30	304	664.70	1,816,145.52	8,285,187
Dec-08	8,567,606	0	8,567,606	733.60	0.00	31	336	662.10	1,318,681.40	8,793,753
Jan-09	8,778,546	0	8,778,546	901.40	0.00	31	336	651.40	1,386,993.43	9,212,923
Feb-09	7,661,282	0	7,661,282	679.40	0.00	28	304	639.40	1,278,827.90	7,953,848
Mar-09	8,189,544	0	8,189,544	597.00	0.00	31	352	627.60	1,599,507.15	8,479,517
Apr-09	7,376,418	0	7,376,418	361.70	0.00	30	320	623.90	1,681,721.41	7,614,678
May-09	6,711,504	0	6,711,504	219.60	2.00	31	320	622.70	1,481,788.71	7,247,747
Jun-09	6,849,734	0	6,849,734	99.10	15.50	30	352	632.10	1,480,617.89	7,120,311
Jul-09	6,821,425	0	6,821,425	61.20	10.30	31	352	637.90	1,533,239.47	7,175,833
Aug-09	7,581,948	0	7,581,948	43.00	48.10	31	320	643.00	1,842,378.49	7,515,728
Sep-09	7,570,598	0	7,570,598	110.20	7.50	30	336	643.30	2,152,613.22	7,514,707
Oct-09	8,346,682	0	8,346,682	345.30	0.00	31	336	644.90	2,250,006.43	8,271,923
Nov-09	8,386,159	0	8,386,159	396.20	0.00	30	320	642.20	2,214,423.39	8,163,642
Dec-09	9,141,543	0	9,141,543	698.60	0.00	31	352	639.10	1,953,856.93	9,047,142
Jan-10	9,555,507	0	9,555,507	791.50	0.00	31	320	633.60	2,212,166.71	9,274,848
Feb-10	8,513,222	0	8,513,222	680.10	0.00	28	304	630.50	1,973,695.14	8,351,618
Mar-10	8,793,380	0	8,793,380	504.70	0.00	31	368	627.50	2,333,569.57	8,787,644
Apr-10	7,779,667	0	7,779,667	273.20	1.00	30	320	631.60	2,176,410.28	7,758,650
May-10	8,100,891	0	8,100,891	148.20	24.00	31	320	641.50	2,343,664.32	7,913,093
Jun-10	7,984,499	0	7,984,499	55.23	18.70	30	352	657.20	2,300,956.26	7,717,796
Jul-10	8,350,976	0	8,350,976	12.70	89.70	31	336	669.80	2,325,624.35	8,326,248
Aug-10	8,692,122	0	8,692,122	19.30	82.00	31	336	672.00	2,526,907.88	8,425,437
Sep-10	8,099,924	0	8,099,924	137.00	15.50	30	336	665.10	2,397,723.77	7,943,153
Oct-10	8,501,568	0	8,501,568	301.00	0.00	31	320	657.20	2,469,206.23	8,298,540
Nov-10	8,832,882	0	8,832,882	439.27	0.00	30	336	655.20	2,399,218.98	8,551,763
Dec-10	9,403,627	0	9,403,627	744.30	0.00	31	368	653.30	2,171,049.35	9,470,590
Jan-11	9,903,507	65	9,903,572	866.50	0.00	31	336	649.30	2,435,983.55	9,788,804
Feb-11	9,130,223	1,664	9,131,887	720.40	0.00	28	304	651.20	2,335,707.17	8,819,877
Mar-11	9,825,256	5,312	9,830,569	660.10	0.00	31	368	657.10	2,656,453.53	9,587,714
Apr-11	8,000,503	7,099	8,007,602	379.30	0.00	30	320	666.40	2,129,747.43	8,213,437
May-11	7,972,210	6,194	7,978,404	168.10	12.80	31	336	671.50	2,308,697.27	8,111,957
Jun-11	7,947,472	9,229	7,956,701	64.10	16.40	30	352	681.80	2,359,470.27	7,912,028
Jul-11	8,282,741	22,629	8,305,370	3.70	104.30	31	320	691.50	2,118,772.13	8,345,219
Aug-11	8,881,989	10,674	8,892,663	13.60	53.30	31	368	694.90	2,641,947.90	8,544,072
Sep-11	8,383,667	8,059	8,391,725	106.33	20.70	30	336	688.60	2,553,254.91	8,150,358
Oct-11	8,946,252	6,054	8,952,307	276.60	0.30	31	320	682.20	2,742,885.93	8,568,461
Nov-11	8,876,428	4,891	8,881,318	399.40	0.00	30	352	677.00	2,504,778.86	8,724,852
Dec-11	9,391,756	1,825	9,393,581	609.80	0.00	31	336	676.60	2,369,546.70	9,239,611

Appendix 3A / Continued – Load Forecast – Predicted Purchases for 2005 to 2014

	Unadjusted Wholesale Purchases (kWh)	Generation (MicroFIT and FIT) kWh	Revised Wholesale Purchases kWh	Heating Degree Day	Cooling Degree Day	Number of Days in Month	Number of Peak Hours	Regional Employment	Sensitive Customers (Purchased	Predicted Purchases
Jan-12	9,969,659	2,638	9,972,298	694.60	0.00	31	336	670.90	2,658,660.21	9,614,799
Feb-12	9,266,795	4,659	9,271,454	611.40	0.00	29	304	668.70	2,606,185.77	8,944,111
Mar-12	9,409,618	10,173	9,419,790	388.70	3.40	31	352	666.00	2,834,712.33	8,997,761
Apr-12	8,519,455	13,281	8,532,736	399.00	0.00	30	304	667.40	2,633,017.88	8,522,825
May-12	8,612,164	16,576	8,628,741	123.80	17.40	31	352	672.10	2,706,007.48	8,369,237
Jun-12	8,638,914	16,383	8,655,297	56.40	57.10	30	336	678.40	2,685,182.69	8,336,340
Jul-12	8,769,534	16,817	8,786,351	0.40	94.00	31	336	682.00	2,558,192.63	8,554,765
Aug-12	9,201,513	20,048	9,221,561	22.50	50.70	31	352	678.50	2,997,631.91	8,601,099
Sep-12	8,451,029	16,364	8,467,393	134.70	15.30	30	304	671.90	2,565,639.12	7,936,316
Oct-12	9,155,016	8,530	9,163,547	292.20	0.00	31	352	672.80	2,767,217.13	8,714,884
Nov-12	9,016,280	6,433	9,022,713	505.72	0.00	30	336	676.80	2,460,499.18	8,899,184
Dec-12	9,266,738	3,199	9,269,936	590.90	0.00	31	304	682.70	2,224,568.01	8,983,493
Jan-13	10,228,961	4,706	10,233,667	703.37	0.00	31	352	681.60	2,663,296.85	9,781,773
Feb-13	9,383,922	2,407	9,386,329	699.60	0.00	28	304	682.60	2,593,943.36	9,126,246
Mar-13	9,829,034	15,410	9,844,444	649.00	0.00	31	320	683.60	3,306,865.10	9,918,769
Apr-13	8,360,602	23,775	8,384,378	414.20	0.00	30	336	685.40	3,534,194.59	9,408,286
May-13	8,890,829	33,327	8,924,156	160.67	18.70	31	352	690.30	3,535,885.33	9,127,100
Jun-13	8,539,244	31,146	8,570,390	67.40	35.00	30	320	696.70	3,252,316.21	8,592,151
Jul-13	8,808,585	24,908	8,833,492	19.60	75.90	31	352	702.80	3,233,445.78	9,100,022
Aug-13	8,890,441	30,729	8,921,170	33.90	34.50	31	336	701.40	3,561,254.67	8,931,750
Sep-13	8,502,958	25,519	8,528,477	133.10	17.20	30	320	698.40	3,380,656.66	8,714,494
Oct-13	9,300,423	17,141	9,317,564	270.69	0.00	31	352	698.40	3,717,267.32	9,432,438
Nov-13	9,558,856	8,804	9,567,660	557.37	0.00	30	272	700.00	3,481,016.53	9,539,816
Dec-13	9,800,086	2,247	9,802,333	767.20	0.00	31	320	695.40	3,058,379.41	10,140,778
Jan-14	10,799,725	2,439	10,802,165	899.70	0.00	31	352	689.40	3,591,070.46	10,947,441
Feb-14	9,710,845	2,992	9,713,837	820.97	0.00	28	304	682.30	3,355,558.67	9,937,285
Mar-14	10,397,444	13,924	10,411,368	767.16	0.00	31	336	680.20	3,697,221.50	10,536,432
Apr-14	9,186,100	25,104	9,211,204	423.07	0.00	30	320	679.40	3,495,242.65	9,294,333
May-14	9,013,757	32,010	9,045,768	185.60	7.60	31	336	690.00	3,735,523.09	9,155,471
Jun-14	8,560,168	48,617	8,608,785	36.00	44.00	30	336	704.40	3,380,283.50	8,787,929
Jul-14	8,459,289	52,243	8,511,532	59.10	25.70	31	352	715.10	3,371,786.38	8,963,280
Aug-14	8,922,514	46,971	8,969,486	40.50	32.40	31	320	718.70	3,631,166.43	9,009,052
Sep-14	8,881,019	39,980	8,920,999	117.20	12.40	30	336	719.30	3,632,293.75	9,000,933
Oct-14	9,391,767	20,846	9,412,613	292.40	0.00	31	352	723.50	3,765,533.17	9,675,446
Nov-14	9,369,360	7,638	9,376,999	548.07	0.00	30	304	721.00	2,869,683.61	9,398,213
Dec-14	9,427,476	8,282	9,435,758	623.73	0.00	31	336	714.30	2,503,707.24	9,595,551

Appendix 3B – Regression Scenarios Performed

Scenario 1 SUMMARY OUTPUT

Regression Statistics	
Multiple R	66.99%
R Square	44.88%
Adjusted R Square	43.94%
Standard Error	569336.1071
Observations	120

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	2	3.08787E+13	1.54394E+13	47.63125815	7.35842E-16
Residual	117	3.79248E+13	3.24144E+11		
Total	119	6.88035E+13			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	7682986.85	136291.5661	56.37	1.17694E-86	7413068.543	7952905.152	7413068.543	7952905.152
Heating Degree Day	2251.07	256.7685728	8.77	1.71151E-14	1742.553293	2759.586699	1742.553293	2759.586699
Cooling Degree Day	7948.68	2764.310932	2.88	0.00479457	2474.105755	13423.25165	2474.105755	13423.25165

Year	kWh Purchased	Adjusted	Purch. VS Adj.
2005	99,177,534.70	104,297,613.24	5.16%
2006	99,726,774.81	102,748,409.18	3.03%
2007	101,905,199.30	103,574,662.18	1.64%
2008	100,510,260.57	103,328,873.12	2.80%
2009	93,415,381.52	103,017,165.55	10.28%
2010	102,608,264.83	103,275,211.02	0.65%
2011	105,625,698.07	103,454,994.28	2.06%
2012	108,411,816.52	102,686,645.56	5.28%
2013	110,314,059.50	103,712,927.02	5.98%
2014	112,475,947.06	104,074,435.74	7.47%
Mean Average Percentage Error (Mape) :			**4.44%**
Median			**4.10%**

Year	kWh Forecasted Purchases	year over year
2015	126,838,075.87	12.77%
2016	128,629,728.10	1.41%

Scenario 2 SUMMARY OUTPUT

Regression Statistics	
Multiple R	70.64%
R Square	49.90%
Adjusted R Square	48.61%
Standard Error	545113.1196
Observations	120

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	3	3.43343E+13	1.14448E+13	38.51537089	2.39474E-17
Residual	116	3.44692E+13	2.97148E+11		
Total	119	6.88035E+13			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	1239324.00	1894048.397	0.65	0.514197379	-2512077.507	4990725.504	-2512077.507	4990725.504
Heating Degree Day	2334.19	247.0493374	9.45	4.66287E-16	1844.874561	2823.499244	1844.874561	2823.499244
Cooling Degree Day	7230.96	2655.055409	2.72	0.007458785	1972.285644	12489.62921	1972.285644	12489.62921
Number of Days in Month	211113.51	61907.1923	3.41	0.000893962	88498.51742	333728.507	88498.51742	333728.507

Year	kWh Purchased	Adjusted	Purch. VS Adj.
2005	99,177,534.70	104,195,103.23	5.06%
2006	99,726,774.81	102,683,346.96	2.96%
2007	101,905,199.30	103,517,355.66	1.58%
2008	100,510,260.57	103,547,524.42	3.02%
2009	93,415,381.52	103,064,867.02	10.33%
2010	102,608,264.83	103,183,286.52	0.56%
2011	105,625,698.07	103,393,066.98	2.11%
2012	108,411,816.52	102,777,024.32	5.20%
2013	110,314,059.50	103,687,320.58	6.01%
2014	112,475,947.06	104,122,041.19	7.43%
Mean Average Percentage Error (Mape) :			**4.43%**
Median			**4.04%**

Year	kWh Forecasted Purchases	year over year
2015	103,374,870.99	-8.09%
2016	103,585,984.50	0.20%

Scenario 3 SUMMARY OUTPUT

Regression Statistics	
Multiple R	71.18%
R Square	50.66%
Adjusted R Square	48.95%
Standard Error	543294.1424
Observations	120

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	4	3.48592E+13	8.71479E+12	29.52479129	6.84804E-17
Residual	115	3.39444E+13	2.95169E+11		
Total	119	6.88035E+13			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	1010415.35	1895517.804	0.53	0.595024101	-2744240.607	4765071.313	-2744240.607	4765071.313
Heating Degree Day	2376.21	248.2331631	9.57	2.56398E-16	1884.503229	2867.907472	1884.503229	2867.907472
Cooling Degree Day	7397.07	2649.12642	2.79	0.006131398	2149.658371	12644.47755	2149.658371	12644.47755
Number of Days in Month	174505.85	67532.72687	2.58	0.011017608	40736.51612	308275.1854	40736.51612	308275.1854
Number of Peak Hours	3974.16	2980.394918	1.33	0.185024397	-1929.426378	9877.751082	-1929.426378	9877.751082

Year	kWh Purchased	Adjusted	Purch. VS Adj.
2005	99,177,534.70	104,278,683.04	5.14%
2006	99,726,774.81	102,736,921.10	3.02%
2007	101,905,199.30	103,647,985.69	1.71%
2008	100,510,260.57	103,509,061.14	2.98%
2009	93,415,381.52	103,056,286.53	10.32%
2010	102,608,264.83	103,245,726.04	0.62%
2011	105,625,698.07	103,585,625.72	1.93%
2012	108,411,816.52	102,601,234.41	5.36%
2013	110,314,059.50	103,439,117.58	6.23%
2014	112,475,947.06	104,070,295.65	7.47%
Mean Average Percentage Error (Mape) :			**4.48%**
Median			**4.08%**

Year	kWh Forecasted Purchases	year over year
2015	103,382,192.52	-8.09%
2016	103,556,698.37	0.17%

Scenario 4 SUMMARY OUTPUT

Regression Statistics	
Multiple R	89.67%
R Square	80.40%
Adjusted R Square	79.54%
Standard Error	343923.7135
Observations	120

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	5	5.53192E+13	1.10638E+13	93.53663995	1.09996E-38
Residual	114	1.34843E+13	1.18284E+11		
Total	119	6.88035E+13			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	(9617408.80)	1446656.512	(6.65)	1.07067E-09	-12483224.2	-6751593.389	-12483224.2	-6751593.389
Heating Degree Day	2611.65	159.1564671	16.51	5.14366E-32	2298.341657	2924.955143	2298.341657	2924.955143
Cooling Degree Day	6475.57	1678.450378	3.86	0.000189804	3150.572422	9800.566965	3150.572422	9800.566965
Number of Days in Month	116790.28	42975.16107	2.72	0.007601883	31656.8214	201923.7476	31656.8214	201923.7476
Number of Peak Hours	6754.98	1898.502265	3.56	0.000545646	2994.063438	10515.90017	2994.063438	10515.90017
Regional Employment	16951.59	1288.89975	13.15	1.3382E-24	14398.29029	19504.89125	14398.29029	19504.89125

Year	kWh Purchased	Adjusted	Purch. VS Adj.
2005	99,177,534.70	98,246,626.42	0.94%
2006	99,726,774.81	99,690,779.16	0.04%
2007	101,905,199.30	100,973,066.73	0.91%
2008	100,510,260.57	101,514,100.59	1.00%
2009	93,415,381.52	98,421,377.38	5.36%
2010	102,608,264.83	101,146,177.51	1.42%
2011	105,625,698.07	106,987,670.74	1.29%
2012	108,411,816.52	105,286,540.81	2.88%
2013	110,314,059.50	109,917,175.30	0.36%
2014	112,475,947.06	111,987,422.24	0.43%
Mean Average Percentage Error (Mape) :			**1.46%**
Median			**0.97%**

Year	kWh Forecasted Purchases	year over year
2015	111,552,566.75	-0.82%
2016	113,467,673.71	1.72%

Appendix 3B / Continued – Regression Scenarios Performed

Scenario 5 SUMMARY OUTPUT

Regression Statistics	
Multiple R	89.73%
R Square	80.51%
Adjusted R Square	79.47%
Standard Error	344514.5956
Observations	120

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	6	5.53915E+13	9.23192E+12	77.78160064	8.3081E-38
Residual	113	1.3412E+13	1.1869E+11		
Total	119	6.88035E+13			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	(10984498.15)	2273194.225	(4.83)	4.28397E-06	-15488105.9	-6480890.4	-15488105.9	-6480890.4
Heating Degree Day	2609.19	158.4595072	16.47	8.40545E-32	2295.252538	2923.126265	2295.252538	2923.126265
Cooling Degree Day	6807.39	1734.243202	3.93	0.000149302	3371.546155	10243.2433	3371.546155	10243.2433
Number of Days in Month	117033.42	43050.12196	2.72	0.007591539	31743.36818	202323.4804	31743.36818	202323.4804
Number of Peak Hours	6796.22	1902.497611	3.57	0.000521373	3027.026959	10565.40876	3027.026959	10565.40876
Regional Employment	15276.81	2504.101688	6.10	1.5158E-08	10315.73227	20237.88644	10315.73227	20237.88644
Customer / Connection Count	547.42	701.3118944	0.78	0.436687676	-842.0024904	1936.848211	-842.0024904	1936.848211

Year	kWh Purchased	Adjusted	Purch. VS Adj.
2005	99,177,534.70	97,870,866.08	1.32%
2006	99,726,774.81	99,293,903.67	0.43%
2007	101,905,199.30	100,769,826.42	1.11%
2008	100,510,260.57	101,593,565.48	1.08%
2009	93,415,381.52	98,729,962.77	5.69%
2010	102,608,264.83	101,496,421.68	1.08%
2011	105,625,698.07	106,979,093.96	1.28%
2012	108,411,816.52	105,455,568.31	2.73%
2013	110,314,059.50	109,931,291.30	0.35%
2014	112,475,947.06	112,050,437.22	0.38%
Mean Average Percentage Error (Mape) :			**1.54%**
Median			**1.10%**

Year	kWh Forecasted Purchases	year over year
2015	110,746,442.82	-1.54%
2016	112,484,123.02	1.57%

Scenario 6 SUMMARY OUTPUT

Regression Statistics	
Multiple R	89.79%
R Square	80.63%
Adjusted R Square	79.60%
Standard Error	343412.8064
Observations	120

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	6	5.54772E+13	9.2462E+12	78.40254458	5.80251E-38
Residual	113	1.33264E+13	1.17932E+11		
Total	119	6.88035E+13			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	(10353298.50)	1578257.145	(6.56)	1.68628E-09	-13480110.56	-7226486.441	-13480110.56	-7226486.441
Heating Degree Day	2597.96	158.3637991	16.41	1.13072E-31	2284.212803	2911.7073	2284.212803	2911.7073
Cooling Degree Day	6989.70	1733.832051	4.03	0.00010099	3554.666513	10424.73453	3554.666513	10424.73453
Number of Days in Month	117182.37	42912.65772	2.73	0.007333592	32164.65725	202200.0866	32164.65725	202200.0866
Number of Peak Hours	6823.82	1896.614809	3.60	0.000477401	3066.281395	10581.35341	3066.281395	10581.35341
Regional Employment	13999.47	2857.045414	4.90	3.22712E-06	8339.149683	19659.79421	8339.149683	19659.79421
GDP	19239.17	16623.48558	1.16	0.249570525	-13694.95539	52173.29089	-13694.95539	52173.29089

Year	kWh Purchased	Adjusted	Purch. VS Adj.
2005	99,177,534.70	97,727,390.48	1.46%
2006	99,726,774.81	99,400,532.98	0.33%
2007	101,905,199.30	101,340,929.80	0.55%
2008	100,510,260.57	101,848,280.39	1.33%
2009	93,415,381.52	98,516,612.07	5.46%
2010	102,608,264.83	100,934,294.89	1.63%
2011	105,625,698.07	106,615,174.10	0.94%
2012	108,411,816.52	105,513,056.17	2.67%
2013	110,314,059.50	109,930,620.90	0.35%
2014	112,475,947.06	112,344,045.11	0.12%
Mean Average Percentage Error (Mape) :			**1.48%**
Median			**1.13%**

Year	kWh Forecasted Purchases	year over year
2015	112,669,614.31	0.17%
2016	115,139,650.67	2.19%

Scenario 7 SUMMARY OUTPUT

Regression Statistics	
Multiple R	89.76%
R Square	80.58%
Adjusted R Square	79.54%
Standard Error	343903.0451
Observations	120

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	6	5.54391E+13	9.23985E+12	78.12551989	6.80832E-38
Residual	113	1.33644E+13	1.18269E+11		
Total	119	6.88035E+13			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	(8456080.71)	1850139.243	(4.57)	1.25058E-05	-12121540.24	-4790621.175	-12121540.24	-4790621.175
Heating Degree Day	2603.68	158.3446311	16.44	9.39176E-32	2289.975603	2917.39415	2289.975603	2917.39415
Cooling Degree Day	6814.27	1711.732085	3.98	0.000121725	3423.023739	10205.52371	3423.023739	10205.52371
Number of Days in Month	117874.35	42986.06539	2.74	0.007098699	32711.20492	203037.5019	32711.20492	203037.5019
Number of Peak Hours	6813.64	1899.281933	3.59	0.000494821	3050.819354	10576.45948	3050.819354	10576.45948
Regional Employment	15025.88	2306.359268	6.51	2.09716E-09	10456.56706	19595.19443	10456.56706	19595.19443
CDM	0.78	0.775269586	1.01	0.31616844	-0.755385584	2.31651217	-0.755385584	2.31651217

Year	kWh Purchased	Adjusted	Purch. VS Adj.
2005	99,177,534.70	98,034,506.15	1.15%
2006	99,726,774.81	99,204,286.82	0.52%
2007	101,905,199.30	100,615,594.58	1.27%
2008	100,510,260.57	101,257,679.07	0.74%
2009	93,415,381.52	98,901,251.00	5.87%
2010	102,608,264.83	101,568,379.92	1.01%
2011	105,625,698.07	106,871,031.51	1.18%
2012	108,411,816.52	105,516,545.88	2.67%
2013	110,314,059.50	109,972,997.59	0.31%
2014	112,475,947.06	112,228,664.37	0.22%
Mean Average Percentage Error (Mape) :			**1.50%**
Median			**1.08%**

Year	kWh Forecasted Purchases	year over year
2015	111,676,606.80	-0.71%
2016	113,337,914.44	1.49%

Scenario 8 SUMMARY OUTPUT

Regression Statistics	
Multiple R	94.47%
R Square	89.25%
Adjusted R Square	88.68%
Standard Error	255610.2042
Observations	120

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	6	6.13268E+13	1.02211E+13	156.4380253	2.46941E-52
Residual	113	7.38303E+12	65336576513		
Total	119	6.87098E+13			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	(3,588,861.84)	1277978.547	(2.81)	0.005870299	-6120767.841	-1056955.847	-6120767.841	-1056955.847
Heating Degree Day	2,626.86	117.5957243	22.34	2.92267E-43	2393.885657	2859.842336	2393.885657	2859.842336
Cooling Degree Day	8,088.43	1264.580622	6.40	3.72007E-09	5583.06381	10593.78839	5583.06381	10593.78839
Number of Days in Month	127,263.55	31975.41157	3.98	0.00012212	63914.49348	190612.6083	63914.49348	190612.6083
Number of Peak Hours	4,687.76	1425.236522	3.29	0.001340451	1864.109145	7511.410357	1864.109145	7511.410357
Regional Employment	6,161.97	1586.58174	3.88	0.00017364	3018.661971	9305.271134	3018.661971	9305.271134
Sensitive Customers (Purchased kWh)	0.65	0.065218188	9.95	4.01315E-17	0.519508898	0.777926884	0.519508898	0.777926884

Year	kWh Purchased	Predicted	Difference
2005	99,177,534.70	101,022,119.00	1.86%
2006	99,726,774.81	100,486,423.95	0.76%
2007	101,905,199.30	102,018,514.07	0.11%
2008	100,510,260.57	99,854,869.43	0.65%
2009	93,415,381.52	95,317,999.79	2.04%
2010	102,608,264.83	100,819,380.40	1.74%
2011	105,625,698.07	104,006,389.36	1.53%
2012	108,411,816.52	104,474,814.18	3.63%
2013	110,314,059.50	111,813,624.29	1.36%
2014	112,420,511.95	114,301,367.31	1.67%
Mean Average Percentage Error (Mape) :			**1.54%**
Median			**1.60%**

Year	kWh Forecasted Purchases	year over year
2015	111,314,900.28	-0.98%
2016	111,517,167.98	0.18%

Appendix 3C – IESO Final Results Report for WNP (CDM)

saveONenergy

Message from the Vice President:

The IESO is pleased to provide the enclosed 2011-2014 Final Results Report. This report is designed to help populate LDC Annual Reports that will be submitted to the Ontario Energy Board (OEB) in September 2015.

2011-2014 Conservation Framework Highlights:

- LDCs have made significant achievements against dual energy and peak demand savings targets. Collectively, the LDCs have achieved 109% of the energy target and 70% of the peak demand target.
- Momentum has built as we transition to the Conservation First Framework. 2014 demonstrated an achievement of over 1 TWh of net incremental energy savings, positioning us well for average net incremental energy savings of 1.2 TWh required in the new framework to meet our 2020 CDM targets.
- Throughout the past framework, program results have become more predictable year over year as noted in the increasingly smaller variance between quarterly preliminary results and verified final results.
- Customer engagement continued to increase in both the Consumer and Business Programs. Between 2011 - 2014 consumers have purchased over 10 million energy efficient products through the saveONenergy COUPONS program. Customers in RETROFIT continue to declare a positive experience participating in the program with 86% likely to recommend.
- saveONenergy has seen a steady and significant increase in unaided brand awareness by 33% from 2011-2014
- Conservation is becoming even more cost-effective as programs become more efficient and effective. 2014 proved early investments in long lead time projects will pay off with the high savings now being realized in programs like PROCESS & SYSTEMS and RETROFIT. Within 4 cents per kWh, Conservation programs continue to be a valuable and cost effective resource for customers across the province.

The 2011-2014 Final Results within this report vary from the Draft 2011-2014 Final Results Report for the following reasons:

- Savings from Time of Use pricing are included in the Final Results Report. Overall the province saved 55 MWs from Time-of-Use pricing in 2014, or 0.73% of residential summer peak demand.
- Between August 4th and August 28th, the IESO and LDCs have worked collaboratively to reconcile projects from 2011-2014 Final Results Report to ensure every eligible project was captured and accurately reported.
- Verified savings from Innovation Fund pilots are also included for participating LDCs.

All results will be considered final for the 2011-2014 Conservation Framework. Any additional program activity not captured in the 2011-2014 Final Results Report will not be included as part of a future adjustment process.

Please continue to monitor saveONenergy Eblasts for future updates and should you have any other questions or comments please contact LDC.Support@ieso.ca.

We appreciate your collaboration and cooperation throughout the reporting and evaluation process and we look forward to the success ahead in the Conservation First Framework.

Sincerely,

Terry Young

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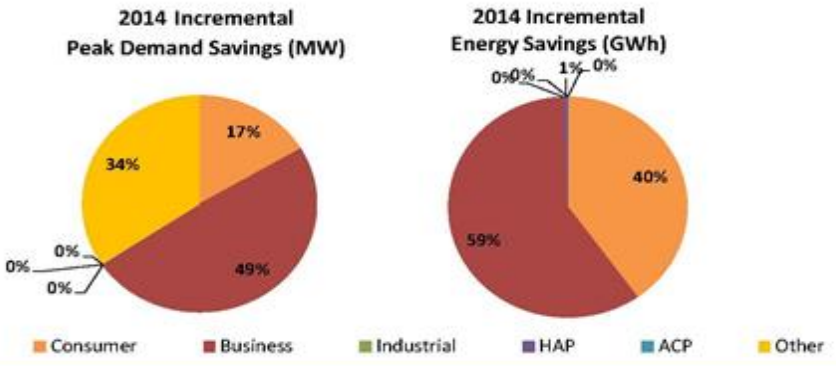
IESO-Contracted Province-Wide CDM Programs: 2011-2014 Final Results Report

LDC: Wellington North Power Inc.

Final 2014 Achievement Against Targets	2014 Incremental	2011-2014 Achievement Against Target	% of Target Achieved
Net Annual Peak Demand Savings (MW)	0.2	0.5	**51.7%**
Net Energy Savings (GWh)	0.3	3.3	**73.2%**

Unless otherwise noted, results are presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Achievement by Sector



Comparison: LDC Achievement vs. LDC Community Achievement (Progress to Target)

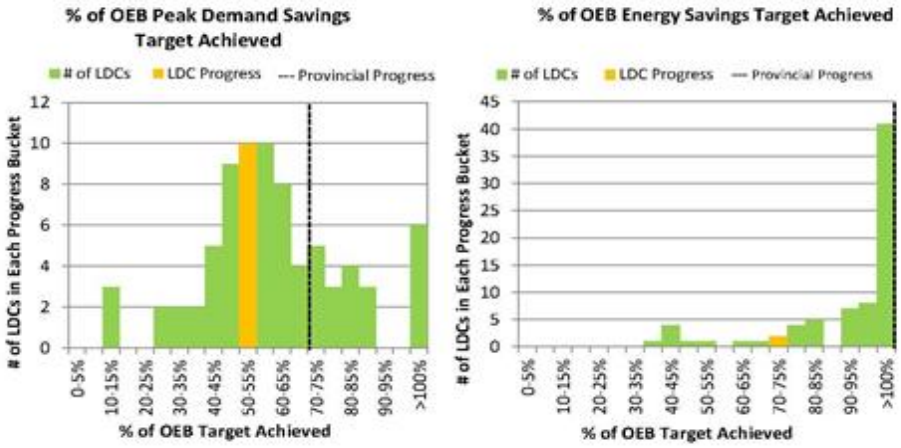


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Table 1: Wellington North Power Inc. Initiative and Program Level Net Savings by Year

Initiative	Unit	Incremental Activity (new program activity occuring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
														2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program															
Appliance Retirement	Appliances	59	94	43	50	3	5	3	3	24,052	38,126	18,331	21,442	15	275,893
Appliance Exchange	Appliances	2	15	9	1	0	2	0	0	350	4,034	0	369	3	13,822
HVAC Incentives	Equipment	27	31	24	25	10	9	6	6	28,522	16,329	11,502	11,945	31	145,926
Conservation Instant Coupon Booklet	Items	319	20	220	674	1	0	0	1	11,756	884	4,875	18,952	3	77,776
Bi-Annual Retailer Event	Items	602	471	598	3,051	1	1	1	5	16,584	16,938	10,468	77,700	8	224,419
Retailer Co-op	Items	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Demand Response	Devices	0	0	0	6	0	0	0	2	0	0	0	0	2	0
Residential Demand Response (IHD)	Devices	0	0	0	6	0	0	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Consumer Program Total						15	17	10	18	76,866	76,312	45,573	129,738	61	754,836
Business Program															
Retrofit	Projects	1	7	5	5	1	91	13	10	2,232	306,399	47,697	98,761	114	1,159,919
Direct Install Lighting	Projects	31	19	9	17	29	26	7	24	74,943	106,963	24,201	92,723	78	736,760
Building Commissioning	Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Audit	Audits	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Commercial Demand Response	Devices	0	0	0	1	0	0	0	1	0	0	0	0	1	0
Small Commercial Demand Response (IHD)	Devices	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Business Program Total						29	117	21	35	77,175	413,362	71,898	191,483	213	1,899,659
Industrial Program															
Process & System Upgrades	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Manager	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retrofit	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industrial Program Total						0	0	0	0	0	0	0	0	0	0
Home Assistance Program															
Home Assistance Program	Homes	0	9	57	1	0	1	5	0	0	9,813	55,484	1,976	6	141,297
Home Assistance Program Total						0	1	5	0	0	9,813	55,484	1,976	6	141,297
Aboriginal Program															
Home Assistance Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aboriginal Program Total						0	0	0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High Performance New Construction	Projects	0	0	0	0	0	0	0	0	277	69	0	0	0	1,316
Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDC Custom Programs	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011 Total						0	0	0	0	277	69	0	0	0	1,316
Other															
Program Enabled Savings	Projects	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Time-of-Use Savings	Homes	0	0	0	n/a	0	0	0	38	0	0	0	0	38	0
LDC Pilots	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Total						0	0	0	38	0	0	0	0	38	0
Adjustments to 2011 Verified Results							0	0	0		1,330	0	0	0	5,320
Adjustments to 2012 Verified Results								26	2			160,936	8,720	28	588,862
Adjustments to 2013 Verified Results									135				526	135	1,851
Energy Efficiency Total						45	135	36	180	153,510	499,556	193,835	323,197	315	2,795,308
Demand Response Total (Scenario 1)						0	0	0	3	0	0	0	0	3	0
Adjustments to Previous Years' Verified Results Total						0	0	26	137	0	1,330	160,936	9,253	163	595,363
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						45	134	62	320	153,510	500,886	353,871	332,451	481	3,390,671
														Full OEB Target:	900	4,520,000
														% of Full OEB Target Achieved to Date (Scenario 1):	53.7%	73.2%

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively)

*Includes adjustments after Final Reports were issued

Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

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Table 2: Adjustments to Wellington North Power Inc. Net Verified Results due to Variances

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011 *	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
														2014	2014
Appliance Retirement	Appliances	0	0	0		0	0	0		0	0	0		0	0
Appliance Exchange	Appliances	0	0	0		0	0	0		0	0	0		0	0
HVAC Incentives	Equipment	-2	0	1		-1	0	0		-1,010	5	511		0	-3,004
Conservation Instant Coupon Booklet	Items	5	0	1		0	0	0		174	0	15		0	727
Bi-annual Retailer Event	Items	52	0	0		0	0	0		1,381	0	0		0	5,524
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response (HID)	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential New Construction	Homes	0	0	0		0	0	0		0	0	0		0	0
Consumer Program Total						**-1**	**0**	**0**		**545**	**5**	**526**		**0**	**3,247**
Retrofit	Projects	0	1	0		0	26	0		0	154,111	0		26	462,333
Direct Install Lighting	Projects	1	1	0		0	2	0		785	6,820	0		2	23,599
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	0	0	0		0	0	0		0	0	0		0	0
Energy Audit	Audits	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (HID)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Business Program Total						**0**	**26**	**0**		**785**	**160,931**	**0**		**26**	**485,932**
Process & System Upgrades	Projects	0	0	0		0	0	0		0	0	0		0	0
Monitoring & Targeting	Projects	0	0	0		0	0	0		0	0	0		0	0
Energy Manager	Projects	0	0	0		0	0	0		0	0	0		0	0
Retrofit	Projects	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Industrial Program Total						**0**	**0**	**0**		**0**	**0**	**0**		**0**	**0**
Home Assistance Program	Homes	0	1	0		0	2	0		0	8,729	0		2	26,184
Home Assistance Program Total						**0**	**2**	**0**		**0**	**8,729**	**0**		**2**	**26,184**
Home Assistance Program	Homes	0	0	0		0	0	0		0	0	0		0	0
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Aboriginal Program Total						**0**	**0**	**0**		**0**	**0**	**0**		**0**	**0**
Electricity Retrofit Incentive Program	Projects	0	0	0		0	0	0		0	0	0		0	0
High Performance New Construction	Projects	0	0	0		0	0	0		0	0	0		0	0
Toronto Comprehensive	Projects	0	0	0		0	0	0		0	0	0		0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011 Total						**0**	**0**	**0**		**0**	**0**	**0**		**0**	**0**
Program Enabled Savings	Projects	0	0	1		0	0	135		0	0	0		135	0
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
LDC Pilots	Projects	0	0	0		0	0	0		0	0	0		0	0
Other Total						**0**	**0**	**135**		**0**	**0**	**0**		**135**	**0**
Adjustments to 2011 Verified Results						**0**				**1,330**				**0**	**5,320**
Adjustments to 2012 Verified Results							**28**				**169,644**			**28**	**508,992**
Adjustments to 2013 Verified Results								**135**				**526**		**135**	**1,051**
Total Adjustments to Previous Years' Verified Results						**0**	**28**	**135**		**1,330**	**169,644**	**526**		**163**	**515,363**

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above is presented in the implementation year. Adjustments in Table 1 reflect persisted savings in the year in which that adjustment is verified.

Table 3: Wellington North Power Inc. Realization Rate & NTG

Initiative	Peak Demand Savings								Energy Savings							
	Realization Rate				Net-to-Gross Ratio				Realization Rate				Net-to-Gross Ratio			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program																
Appliance Retirement	1.00	1.00	n/a	n/a	0.52	0.47	0.42	0.42	1.00	1.00	n/a	n/a	0.52	0.47	0.44	0.44
Appliance Exchange	1.00	1.00	n/a	1.00	0.52	0.52	n/a	0.53	1.00	1.00	n/a	1.00	0.52	0.52	n/a	0.53
HVAC Incentives	1.00	1.00	n/a	1.00	0.60	0.49	0.48	0.51	1.00	1.00	n/a	1.00	0.60	0.48	0.48	0.51
Conservation Instant Coupon Booklet	1.00	1.00	1.00	1.00	1.14	1.00	1.11	1.68	1.00	1.00	1.00	1.00	1.11	1.05	1.13	1.71
Bi-Annual Retailer Event	1.00	1.00	1.00	1.00	1.13	0.91	1.04	1.74	1.00	1.00	1.00	1.00	1.10	0.92	1.04	1.75
Retailer Co-op	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential New Construction	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Business Program																
Retrofit	0.93	0.93	1.02	1.03	0.75	0.70	0.72	0.72	1.35	0.96	1.11	0.99	0.76	0.70	0.72	0.72
Direct Install Lighting	1.08	0.68	0.81	0.78	0.93	0.94	0.94	0.94	0.90	0.85	0.84	0.83	0.93	0.94	0.94	0.94
Building Commissioning	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
New Construction	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Energy Audit	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Small Commercial Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Small Commercial Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Demand Response 3	0.76	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Industrial Program																
Process & System Upgrades	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monitoring & Targeting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Energy Manager	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Retrofit																
Demand Response 3	0.84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Home Assistance Program																
Home Assistance Program	n/a	1.10	0.92	0.98	n/a	1.00	1.00	1.00	n/a	1.03	0.76	0.72	n/a	1.00	1.00	1.00
Aboriginal Program																
Home Assistance Program	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Direct Install Lighting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
High Performance New Construction	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50
Toronto Comprehensive	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Multifamily Energy Efficiency Rebates	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Custom Programs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other																
Program Enabled Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Time-of-Use Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Pilots	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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Summary Achievement Against CDM Targets

Results are recognized using current IESO reporting policies. Energy efficiency resources persist for the duration of the effective useful life. Any upcoming code changes are taken into account. Demand response resources persist for 1 year (Scenario 1). Please see methodology tab for more detailed information.

Table 4: Net Peak Demand Savings at the End User Level (MW) (Scenario 1)

Implementation Period	Annual			
	2011	2012	2013	2014
2011 - Verified	0.0	0.0	0.0	0.0
2012 - Verified†	0.0	0.1	0.1	0.1
2013 - Verified†	0.0	0.0	0.1	0.1
2014 - Verified†	0.0	0.0	0.1	0.2
Verified Net Annual Peak Demand Savings Persisting in 2014:				0.5
Wellington North Power Inc. 2014 Annual CDM Capacity Target:				0.9
Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):				51.6%

Table 5: Net Energy Savings at the End User Level (GWh)

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011 - Verified	0.2	0.2	0.2	0.1	0.6
2012 - Verified†	0.0	0.5	0.5	0.5	1.5
2013 - Verified†	0.0	0.2	0.4	0.4	0.9
2014 - Verified†	0.0	0.0	0.01	0.3	0.4
Verified Net Cumulative Energy Savings 2011-2014:					3.3
Wellington North Power Inc. 2011-2014 Annual CDM Energy Target:					4.5
Verified Portion of Cumulative Energy Target Achieved in 2014 (%):					73.3%

†Includes adjustments to previous years' verified results

Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Table 6: Province-Wide Initiatives and Program Level Net Savings by Year (Scenario 1)

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
														2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program															
Appliance Retirement	Appliances	56,110	54,144	20,952	22,563	3,299	2,811	1,439	1,617	23,005,812	13,424,518	6,753,137	9,457,340	9,221	159,100,415
Appliance Exchange	Appliances	3,689	3,836	5,337	5,685	371	556	1,106	1,178	650,187	974,621	1,971,701	2,100,266	2,971	10,556,192
HVAC Incentives	Equipment	92,748	87,540	96,286	113,002	12,037	19,060	19,552	23,106	59,437,670	92,841,283	93,923,592	42,886,217	93,755	447,009,930
Conservation Instant Coupon Booklet	Items	567,678	30,491	947,946	1,308,108	1,344	230	537	2,440	21,211,537	1,396,302	7,707,579	32,602,537	4,531	137,258,436
Bi-Annual Retailer Event	Items	952,149	1,060,901	944,772	4,828,751	1,681	1,480	1,184	8,043	29,387,468	24,791,474	17,179,841	122,902,769	12,388	355,157,348
Retailer Co-op	Items	152	0	0	0	0	0	0	0	2,652	0	0	0	0	10,607
Residential Demand Response	Devices	19,550	98,388	175,793	241,381	10,947	49,038	93,076	117,513	24,870	259,408	390,303	8,379	117,513	782,960
Residential Demand Response (HD)	Devices	0	49,689	133,457	188,577	0	0	0	0	0	0	0	0	0	0
Residential New Construction	Homes	27	21	279	2,367	0	2	18	369	743	13,152	163,696	2,330,865	395	2,712,476
Consumer Program Total						**49,681**	**72,377**	**116,886**	**154,267**	**133,520,941**	**75,296,859**	**78,049,807**	**212,530,376**	**239,772**	**1,112,589,565**
Business Program															
Retrofit	Projects	2,828	6,481	8,746	10,915	24,467	61,147	59,670	70,662	136,002,258	314,922,468	345,346,008	462,903,571	215,499	2,431,401,223
Direct Install Lighting	Projects	20,741	18,491	17,833	23,764	23,724	15,264	18,708	25,419	61,876,701	57,365,798	64,315,558	84,503,302	73,306	654,196,658
Building Commissioning	Buildings	3	0	0	5	0	0	0	988	0	0	0	1,513,377	988	1,513,377
New Construction	Buildings	25	98	158	226	123	764	1,584	4,432	411,717	1,814,721	4,959,266	20,340,204	8,904	37,330,767
Energy Audit	Audits	222	357	589	473	0	1,450	2,611	4,323	0	7,049,351	15,455,795	10,074,399	13,503	82,934,042
Small Commercial Demand Response	Devices	132	294	1,211	3,652	84	187	773	2,116	157	1,069	373	319	2,116	1,914
Small Commercial Demand Response (HD)	Devices	0	0	378	820	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	145	151	179	180	14,218	19,389	23,706	23,980	633,421	201,823	146,659	0	23,980	1,261,903
Business Program Total						**64,617**	**98,221**	**107,261**	**131,319**	**198,124,253**	**381,415,230**	**430,423,659**	**600,176,125**	**332,760**	**3,358,699,887**
Industrial Program															
Process & System Upgrades	Projects	0	0	5	10	0	0	294	3,692	0	0	2,693,764	72,053,255	3,986	77,266,782
Monitoring & Targeting	Projects	0	1	3	5	0	0	0	103	0	0	0	502,517	103	502,517
Energy Manager	Projects	1	132	306	379	0	1,066	3,558	5,191	0	7,371,338	21,394,243	40,436,427	8,384	95,324,998
Retrofit	Projects	403	0	0	0	4,615	0	0	0	28,846,940	0	0	0	4,615	115,461,292
Demand Response 3	Facilities	134	185	281	306	52,484	74,054	142,543	166,982	3,000,737	1,764,752	4,369,560	0	166,982	3,174,609
Industrial Program Total						**57,099**	**75,141**	**146,395**	**181,066**	**31,847,577**	**9,136,820**	**28,907,187**	**112,992,199**	**185,168**	**291,725,188**
Home Assistance Program															
Home Assistance Program	Homes	46	5,920	23,658	25,424	2	566	2,361	2,466	39,283	5,442,232	20,967,275	19,582,658	5,378	77,532,571
Home Assistance Program Total						**2**	**566**	**2,361**	**2,466**	**39,283**	**5,442,232**	**20,967,275**	**19,582,658**	**5,378**	**77,532,571**
Aboriginal Program															
Home Assistance Program	Homes	0	0	717	1,125	0	0	267	549	0	0	1,689,393	3,331,287	816	6,319,993
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aboriginal Program Total						**0**	**0**	**267**	**549**	**0**	**0**	**1,689,393**	**3,331,287**	**816**	**6,319,993**
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	2,828	0	0	0	21,662	0	0	0	121,136,219	0	0	0	21,662	484,552,876
High Performance New Construction	Projects	182	73	19	1	5,098	3,251	772	134	26,185,591	11,901,944	3,522,240	688,738	9,255	148,181,415
Toronto Comprehensive	Projects	577	15	4	5	15,805	0	0	281	86,944,886	0	0	2,479,840	16,086	358,139,365
Multifamily Energy Efficiency Rebates	Projects	118	0	0	0	1,981	0	0	0	7,595,681	0	0	0	1,981	30,382,703
LDC Custom Programs	Projects	8	0	0	0	399	0	0	0	1,367,170	0	0	0	399	5,468,679
Pre-2011 Programs completed in 2011 Total						**44,945**	**3,251**	**772**	**415**	**243,251,550**	**11,901,944**	**3,522,240**	**3,168,578**	**49,382**	**1,018,825,038**
Other															
Program Enabled Savings	Projects	33	71	46	40	0	2,304	3,692	5,500	0	1,188,362	4,075,382	19,035,337	11,496	30,751,187
Time-of-Use Savings	Homes	0	0	0	n/a	0	0	0	54,795	0	0	0	0	54,795	0
LDC Pilots	Projects	0	0	0	1,174	0	0	0	1,170	0	0	0	5,061,522	1,170	5,061,522
Other Total						**0**	**2,304**	**3,692**	**61,466**	**0**	**1,188,362**	**4,075,382**	**24,096,859**	**67,462**	**35,812,709**
Adjustments to 2011 Verified Results							**1,486**	**841**	**1,418**		**10,689,881**	**1,736,381**	**7,319,857**	**3,215**	**110,143,550**
Adjustments to 2012 Verified Results								**6,260**	**9,221**			**41,947,848**	**37,800,235**	**15,481**	**230,788,633**
Adjustments to 2013 Verified Results									**24,391**				**150,705,808**	**24,391**	**296,665,251**
Energy Efficiency Total						**136,618**	**189,191**	**317,536**	**426,457**	**603,144,419**	**482,474,495**	**554,528,447**	**975,639,300**	**575,647**	**5,896,382,612**
Demand Response Total (Scenario 1)						**79,733**	**142,670**	**208,099**	**309,091**	**3,730,185**	**2,477,851**	**5,866,495**	**8,668**	**309,091**	**11,225,389**
Adjustments to Previous Years' Verified Results Total						**0**	**1,486**	**6,901**	**35,830**	**0**	**10,689,881**	**43,684,229**	**195,185,808**	**43,006**	**645,389,397**
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						**216,343**	**253,267**	**404,536**	**568,578**	**606,869,604**	**503,590,526**	**603,259,163**	**1,178,833,878**	**927,745**	**6,552,993,397**
													Full OEB Target:	**1,330,000**	**6,000,000,000**
													% of Full OEB Target Achieved to Date (Scenario 1):	**70%**	**109%**

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively)

*Includes adjustments after Final Reports were issued

Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Table 7: Adjustments to Province-Wide Net Verified Results due to Variances

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
														2014	2014
Appliance Retirement	Appliances	0	0	0		0	0	0		0	0	0		0	0
Appliance Exchange	Appliances	0	0	0		0	0	0		0	0	0		0	0
HVAC Incentives	Equipment	-16,039	2,319	4,705		-5,170	479	1,037		-9,707,002	955,512	1,830,488		-3,754	-22,284,656
Conservation Instant Coupon Booklet	Items	8,216	0	1,056		16	0	2		275,655	0	23,571		18	1,149,763
Bi-Annual Retailer Event	Items	81,817	0	0		108	0	0		2,183,191	0	0		108	8,733,563
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response (HD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential New Construction	Homes	20	2	199		1	1	72		14,617	985	441,930		74	945,497
Consumer Program Total						**-5,145**	**480**	**1,111**		**-7,233,298**	**956,497**	**2,301,917**		**-3,555**	**-25,644,895**
Retrofit	Projects	313	876	961		3,208	7,210	11,961		14,266,129	40,494,052	70,146,260		12,056	147,545,386
Direct Install Lighting	Projects	444	197	51		501	264	46		1,250,388	736,541	164,647		620	7,158,143
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	15	28	71		950	1,804	3,241		3,604,553	6,825,776	8,636,179		4,401	46,187,216
Energy Audit	Audits	119	77	270		404	439	1,303		2,348,189	2,145,367	13,100,635		3,424	44,418,129
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (HD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Business Program Total						**5,162**	**9,181**	**16,631**		**24,866,258**	**50,205,734**	**100,047,761**		**20,501**	**305,148,644**
Process & System Upgrades	Projects	0	0	2		0	0	324		0	0	968,659		324	3,937,318
Monitoring & Targeting	Projects	0	1	3		0	0	56		0	520,000	639,340		56	2,862,696
Energy Manager	Projects	1	86	101		27	1,067	2,395		241,515	8,266,841	25,814,853		4,341	81,859,489
Retrofit	Projects	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Industrial Program Total						**27**	**1,067**	**2,774**		**241,515**	**8,794,841**	**27,422,860**		**4,721**	**88,659,506**
Home Assistance Program	Homes	0	867	3,898		0	222	791		0	1,316,749	4,321,794		1,809	12,515,300
Home Assistance Program Total						**0**	**222**	**791**		**0**	**1,316,749**	**4,321,794**		**1,809**	**8,501,177**
Home Assistance Program	Homes	0	0	133		0	0	134		0	0	563,715		134	1,127,430
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Aboriginal Program Total						**0**	**0**	**134**		**0**	**0**	**563,715**		**134**	**1,127,430**
Electricity Retrofit Incentive Program	Projects	12	0	0		138	0	0		545,536	0	0		138	2,182,145
High Performance New Construction	Projects	37	4	15		1,507	363	-184		1,398,941	2,832,533	-993,596		1,686	16,104,175
Toronto Comprehensive	Projects	0	15	4		0	671	185		0	6,519,517	1,328,388		857	16,219,917
MultiFamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011 Total						**1,645**	**1,035**	**2**		**1,944,477**	**7,356,050**	**338,792**		**2,681**	**34,504,578**
Program Enabled Savings	Projects	33	55	33		1,776	3,712	2,020		7,727,573	11,481,687	10,688,544		7,509	86,732,481
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
LDC Pilots	Projects	0	0	0		0	0	0		0	0	0		0	0
Other Total						**1,776**	**3,712**	**2,020**		**7,727,573**	**11,481,687**	**10,688,544**		**7,509**	**86,732,481**
Adjustments to 2011 Verified Results						**1,645**				**27,186,535**				**1,215**	**118,143,550**
Adjustments to 2012 Verified Results							**15,697**				**80,113,550**			**15,481**	**238,788,637**
Adjustments to 2013 Verified Results								**23,463**				**145,679,403**		**24,391**	**296,465,213**
Adjustments to Previous Years' Verified Results Total						**1,645**	**15,697**	**23,463**		**27,186,535**	**80,113,550**	**145,679,403**		**41,086**	**645,389,397**

Activity and savings for Demand Response resource for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above is presented in the implementation year. Adjustments in Table 1 reflect persisted savings in the year in which that adjustment is verified.

Table 8: Province-Wide Realization Rate & NTG

Initiative	Peak Demand Savings								Energy Savings							
	Realization Rate				Net-to-Gross Ratio				Realization Rate				Net-to-Gross Ratio			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program																
Appliance Retirement	1.00	1.00	1.00	1.00	0.51	0.46	0.42	0.45	1.00	1.00	1.00	1.00	0.46	0.47	0.44	0.47
Appliance Exchange	1.00	1.00	1.00	1.00	0.51	0.52	0.53	0.53	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53
HVAC Incentives	1.00	1.00	1.00	1.00	0.60	0.50	0.48	0.48	1.00	1.00	1.00	1.00	0.50	0.49	0.48	0.48
Conservation Instant Coupon Booklet	1.00	1.00	1.00	1.00	1.14	1.00	1.11	1.69	1.00	1.00	1.00	1.00	1.00	1.05	1.13	1.73
Bi-Annual Retailer Event	1.00	1.00	1.00	1.00	1.12	0.91	1.04	1.74	1.00	1.00	1.00	1.00	0.91	0.92	1.04	1.75
Retailer Co-op	1.00	n/a	n/a	n/a	0.68	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential New Construction	1.00	3.65	0.78	1.03	0.41	0.49	0.63	0.63	3.65	7.17	3.09	0.62	0.49	0.49	0.63	0.63
Business Program																
Retrofit	1.06	0.93	0.92	0.84	0.72	0.75	0.73	0.71	0.93	1.05	1.01	0.98	0.75	0.76	0.73	0.72
Direct Install Lighting	1.08	0.69	0.82	0.78	1.08	0.94	0.94	0.94	0.69	0.85	0.84	0.83	0.94	0.94	0.94	0.94
Building Commissioning	n/a	n/a	n/a	1.97	n/a	n/a	n/a	1.00	n/a	n/a	n/a	1.16	n/a	n/a	n/a	1.00
New Construction	0.50	0.98	0.68	0.71	0.50	0.49	0.54	0.54	0.98	0.99	0.76	0.79	0.49	0.49	0.54	0.54
Energy Audit	n/a	n/a	1.02	0.96	n/a	n/a	0.66	0.68	n/a	n/a	0.97	1.00	n/a	n/a	0.66	0.67
Small Commercial Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Small Commercial Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Demand Response 3	0.76	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Industrial Program																
Process & System Upgrades	n/a	n/a	0.85	0.96	n/a	n/a	0.94	0.79	n/a	n/a	0.87	0.96	n/a	n/a	0.93	0.80
Monitoring & Targeting	n/a	n/a	n/a	0.59	n/a	n/a	n/a	1.00	n/a	n/a	n/a	0.36	n/a	n/a	n/a	1.00
Energy Manager	n/a	1.16	0.90	0.91	n/a	0.90	0.90	0.90	1.16	1.16	0.90	0.96	0.90	0.90	0.90	0.85
Retrofit	1.11	n/a	n/a	n/a	0.72	n/a	n/a	n/a	0.91	n/a	n/a	n/a	0.75	n/a	n/a	n/a
Demand Response 3	0.84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Home Assistance Program																
Home Assistance Program	1.00	0.32	0.26	0.49	0.70	1.00	1.00	1.00	0.32	0.99	0.88	0.78	1.00	1.00	1.00	1.00
Aboriginal Program																
Home Assistance Program	n/a	n/a	0.05	0.15	n/a	n/a	1.00	1.00	n/a	n/a	0.95	0.97	n/a	n/a	1.00	1.00
Direct Install Lighting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program	0.80	n/a	n/a	n/a	0.54	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
High Performance New Construction	1.00	1.00	1.00	n/a	0.49	0.50	0.50	0.50	1.00	1.00	1.00	n/a	0.50	0.50	0.50	0.50
Toronto Comprehensive	1.13	n/a	n/a	n/a	0.50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Multifamily Energy Efficiency Rebates	0.93	n/a	n/a	n/a	0.78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Custom Programs	1.00	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other																
Program Enabled Savings	n/a	1.06	1.00	0.86	n/a	1.00	1.00	1.00	n/a	2.26	1.00	0.98	n/a	1.00	1.00	1.00
Time-of-Use Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Pilots	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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Summary Provincial Progress Towards CDM Targets

Table 9: Province-Wide Net Peak Demand Savings at the End User Level (MW)

Implementation Period	Annual			
	2011	2012	2013	2014
2011	216.3	136.6	135.8	129.0
2012†	1.4	253.3	109.8	108.2
2013†	0.6	7.0	404.5	122.0
2014†	1.4	10.8	34.2	568.6
Verified Net Annual Peak Demand Savings in 2014:				927.7
2014 Annual CDM Capacity Target:				1,330
Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):				69.8%

Table 10: Province-Wide Net Energy Savings at the End-User Level (GWh)

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011	606.9	603.0	601.0	582.3	2,393.1
2012†	18.7	503.6	498.4	492.6	1,513.3
2013†	1.7	44.4	603.3	583.4	1,232.8
2014†	7.3	44.8	191.0	1,170.8	1,413.9
Verified Net Cumulative Energy Savings 2011-2014:					6,553.0
2011-2014 Cumulative CDM Energy Target:					6,000
Verified Portion of Cumulative Energy Target Achieved in 2014 (%):					109.2%

†Includes adjustments to previous years' verified results

Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

METHODOLOGY

All results are at the end-user level (not including transmission and distribution losses)

EQUATIONS	
Prescriptive Measures and Projects	**Gross Savings = Activity * Per Unit Assumption** **Net Savings = Gross Savings * Net-to-Gross Ratio** **All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed)**
Engineered and Custom Projects	**Gross Savings = Reported Savings * Realization Rate** **Net Savings = Gross Savings * Net-to-Gross Ratio** **All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed)**
Demand Response	**Peak Demand: Gross Savings = Net Savings = contracted MW at contributor level * Provincial contracted to ex ante ratio** **Energy: Gross Savings = Net Savings = provincial ex post energy savings * LDC proportion of total provincial contracted MW** **All savings are annualized (i.e. the savings are the same regardless of the time of year a participant began offering DR)**
Adjustments to Previous Years' Verified Results	All variances from the Final Annual Results Reports from prior years will be adjusted within this report. Any variances with regards to projects counts, data lag, and calculations etc., will be made within this report. Considers the cumulative effect of energy savings.

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Consumer Program			
Appliance Retirement	Includes both retail and home pickup stream. Retail stream allocated based on average of 2008 & 2009 residential throughput; Home pickup stream directly attributed by postal code or customer selection.	Savings are considered to begin in the year the appliance is picked up.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Appliance Exchange	When postal code information is provided by customer, results are directly attributed to the LDC. When postal code is not available, results allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year that the exchange event occurred.	
HVAC Incentives	Results directly attributed to LDC based on customer postal code.	Savings are considered to begin in the year that the installation occurred.	

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Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Conservation Instant Coupon Booklet	LDC-coded coupons directly attributed to LDC. Otherwise results are allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year in which the coupon was redeemed.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Bi-Annual Retailer Event	Results are allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year in which the event occurs.	
Retailer Co-op	When postal code information is provided by the customer, results are directly attributed. If postal code information is not available, results are allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year of the home visit and installation date.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Residential Demand Response	Results are directly attributed to LDC based on data provided to IESO through project completion reports and continuing participant lists.	Savings are considered to begin in the year the device was installed and/or when a customer signed a peaksaver PLUS™ participant agreement.	Peak demand savings are based on an ex ante estimate assuming a 1 in 10 weather year and represents the "insurance value" of the initiative. Energy savings are based on an ex post estimate which reflects the savings that occurred as a result of activations in the year and accounts for any "snapback" in energy consumption experienced after the event. Savings are assumed to persist for only 1 year, reflecting that savings will only occur if the resource is activated.

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Residential New Construction	Results are directly attributed to LDC based on LDC identified in application in the iCon system. Initiative was not evaluated in 2011, reported results are presented with forecast assumptions as per the business case.	Savings are considered to begin in the year of the project completion date.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Business Program			
Efficiency: Equipment Replacement	Results are directly attributed to LDC based on LDC identified at the facility level in the iCon system. Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see page for Building type to Sector mapping.	Savings are considered to begin in the year of the actual project completion date in the iCON system.	Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track).
	Additional Note: project counts were derived by filtering out invalid statuses (e.g. Post-Project Submission - Payment denied by LDC) and only including projects with an "Actual Project Completion Date" in 2014)		

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Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Direct Installed Lighting	Results are directly attributed to LDC based on the LDC specified on the work order.	Savings are considered to begin in the year of the actual project completion date.	Peak demand and energy savings are determined using the verified measure level per unit assumptions multiplied by the uptake of each measure accounting for the realization rate for both peak demand and energy to reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings take into account net-to-gross factors such as free-ridership and spillover for both peak demand and energy savings at the program level (net).
Existing Building Commissioning Incentive	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year of the actual project completion date.	Peak demand and energy savings are determined by the total savings for a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
New Construction and Major Renovation Incentive	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year of the actual project completion date.	
Energy Audit	Projects are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year of the audit date.	Peak demand and energy savings are determined by the total savings resulting from an audit as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).

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Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Commercial Demand Response (part of the Residential program schedule)	Results are directly attributed to LDC based on data provided to IESO through project completion reports and continuing participant lists	Savings are considered to begin in the year the device was installed and/or when a customer signed a peaksaver PLUS™ participant agreement.	Peak demand savings are based on an ex ante estimate assuming a 1 in 10 weather year and represents the "insurance value" of the initiative. Energy savings are based on an ex post estimate which reflects the savings that occurred as a result of activations in the year. Savings are assumed to persist for only 1 year, reflecting that savings will only occur if the resource is activated.
Demand Response 3 (part of the Industrial program schedule)	Results are attributed to LDCs based on the total contracted megawatts at the contributor level as of December 31st, applying the provincial ex ante to contracted ratio (ex ante estimate/contracted megawatts); Ex post energy savings are attributed to the LDC based on their proportion of the total contracted megawatts at the contributor level.	Savings are considered to begin in the year in which the contributor signed up to participate in demand response.	Peak demand savings are ex ante estimates based on the load reduction capability that can be expected for the purposes of planning. The ex ante estimates factor in both scheduled non-performances (i.e. maintenance) and historical performance. Energy savings are based on an ex post estimate which reflects the savings that actually occurred as a results of activations in the year. Savings are assumed to persist for 1 year, reflecting that savings will not occur if the resource is not activated and additional costs are incurred to activate the resource.
Industrial Program			
Process & System Upgrades	Results are directly attributed to LDC based on LDC identified in application.	Savings are considered to begin in the year in which the incentive project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).

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Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Monitoring & Targeting	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the incentive project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
Energy Manager	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the project was completed by the energy manager. If no date is specified the savings will begin the year of the Quarterly Report submitted by the energy manager.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).

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Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	Results are directly attributed to LDC based on LDC identified at the facility level in the saveONenergy CRM; Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see "Reference Tables" tab for Building type to Sector mapping.	Savings are considered to begin in the year of the actual project completion date on the iCON CRM system.	Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON CRM system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track).
Demand Response 3	Results are attributed to LDCs based on the total contracted megawatts at the contributor level as of December 31st, applying the provincial ex ante to contracted ratio (ex ante estimate/contracted megawatts); Ex post energy savings are attributed to the LDC based on their proportion of the total contracted megawatts at the contributor level.	Savings are considered to begin in the year in which the contributor signed up to participate in demand response.	Peak demand savings are ex ante estimates based on the load reduction capability that can be expected for the purposes of planning. The ex ante estimates factor in both scheduled non-performances (i.e. maintenance) and historical performance. Energy savings are based on an ex post estimate which reflects the savings that actually occurred as a results of activations in the year. Savings are assumed to persist for 1 year, reflecting that savings will not occur if the resource is not activated and additional costs are incurred to activate the resource.

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Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Home Assistance Program			
Home Assistance Program	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the measures were installed.	Peak demand and energy savings are determined using the measure level per unit assumption multiplied by the uptake of each measure (gross), taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Aboriginal Program			
Aboriginal Program	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the measures were installed.	Peak demand and energy savings are determined using the measure level per unit assumption multiplied by the uptake of each measure (gross), taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.

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Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Pre-2011 Programs completed in 2011			
Electricity Retrofit Incentive Program	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 2012, 2013 or 2014 assumptions as per 2010 evaluation.	Savings are considered to begin in the year in which a project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported. A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). If energy savings are not available, an estimate is made based on the kWh to kW ratio in the provincial results from the 2010 evaluated results (http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports).
High Performance New Construction	Results are directly attributed to LDC based on customer data provided to the OPA from Enbridge; Initiative was not evaluated in 2011, 2012, 2013 or 2014, assumptions as per 2010 evaluation.	Savings are considered to begin in the year in which a project was completed.	
Toronto Comprehensive	Program run exclusively in Toronto Hydro-Electric System Limited service territory; Initiative was not evaluated in 2011, 2012, 2013 or 2014, assumptions as per 2010 evaluation.		

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Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Multifamily Energy Efficiency Rebates	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 2012, 2013 or 2014, assumptions as per 2010 evaluation.	Savings are considered to begin in the year in which a project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). If energy savings are not available, an estimate is made based on the kWh to kW ratio in the provincial results from the 2010 evaluated results (http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports).
Data Centre Incentive Program	Program run exclusively in PowerStream Inc. service territory; Initiative was not evaluated in 2011, assumptions as per 2009 evaluation.		
EnWin Green Suites	Program run exclusively in ENWIN Utilities Ltd. service territory; Initiative was not evaluated in 2011 or 2012, assumptions as per 2010 evaluation.		

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Consumer Program Allocation Methodology

Results can be allocated based on average of 2008 & 2009 residential throughput for each LDC (below) when additional information is not available. Source: OEB Yearbook Data 2008 & 2009

Local Distribution Company	Allocation
Algoma Power Inc.	0.2%
Atikokan Hydro Inc.	0.0%
Attawapiskat Power Corporation	0.0%
Bluewater Power Distribution Corporation	0.6%
Brant County Power Inc.	0.2%
Brantford Power Inc.	0.7%
Burlington Hydro Inc.	1.4%
Cambridge and North Dumfries Hydro Inc.	1.0%
Canadian Niagara Power Inc.	0.5%
Centre Wellington Hydro Ltd.	0.1%
Chapleau Public Utilities Corporation	0.0%
COLLUS Power Corporation	0.3%
Cooperative Hydro Embrun Inc.	0.0%
E.L.K. Energy Inc.	0.2%
Enersource Hydro Mississauga Inc.	3.9%
ENTEGRUS	0.6%
ENWIN Utilities Ltd.	1.6%
Erie Thames Powerlines Corporation	0.4%
Espanola Regional Hydro Distribution Corporation	0.1%
Essex Powerlines Corporation	0.7%
Festival Hydro Inc.	0.3%
Fort Albany Power Corporation	0.0%
Fort Frances Power Corporation	0.1%
Greater Sudbury Hydro Inc.	1.0%
Grimsby Power Inc.	0.2%
Guelph Hydro Electric Systems Inc.	0.9%
Haldimand County Hydro Inc.	0.4%
Halton Hills Hydro Inc.	0.5%
Hearst Power Distribution Company Limited	0.1%
Horizon Utilities Corporation	4.0%
Hydro 2000 Inc.	0.0%
Hydro Hawkesbury Inc.	0.1%
Hydro One Brampton Networks Inc.	2.8%
Hydro One Networks Inc.	30.0%
Hydro Ottawa Limited	5.6%
Innisfil Hydro Distribution Systems Limited	0.4%
Kashechewan Power Corporation	0.0%
Kenora Hydro Electric Corporation Ltd.	0.1%
Kingston Hydro Corporation	0.5%
Kitchener-Wilmot Hydro Inc.	1.6%
Lakefront Utilities Inc.	0.2%

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Lakeland Power Distribution Ltd.	0.2%
London Hydro Inc.	2.7%
Middlesex Power Distribution Corporation	0.1%
Midland Power Utility Corporation	0.1%
Milton Hydro Distribution Inc.	0.6%
Newmarket - Tay Power Distribution Ltd.	0.7%
Niagara Peninsula Energy Inc.	1.0%
Niagara-on-the-Lake Hydro Inc.	0.2%
Norfolk Power Distribution Inc.	0.3%
North Bay Hydro Distribution Limited	0.5%
Northern Ontario Wires Inc.	0.1%
Oakville Hydro Electricity Distribution Inc.	1.5%
Orangeville Hydro Limited	0.2%
Orillia Power Distribution Corporation	0.3%
Oshawa PUC Networks Inc.	1.2%
Ottawa River Power Corporation	0.2%
Parry Sound Power Corporation	0.1%
Peterborough Distribution Incorporated	0.7%
PowerStream Inc.	6.6%
PUC Distribution Inc.	0.9%
Renfrew Hydro Inc.	0.1%
Rideau St. Lawrence Distribution Inc.	0.1%
Sioux Lookout Hydro Inc.	0.1%
St. Thomas Energy Inc.	0.3%
Thunder Bay Hydro Electricity Distribution Inc.	0.9%
Tillsonburg Hydro Inc.	0.1%
Toronto Hydro-Electric System Limited	12.8%
Veridian Connections Inc.	2.4%
Wasaga Distribution Inc.	0.2%
Waterloo North Hydro Inc.	1.0%
Welland Hydro-Electric System Corp.	0.4%
Wellington North Power Inc.	0.1%
West Coast Huron Energy Inc.	0.1%
Westario Power Inc.	0.5%
Whitby Hydro Electric Corporation	0.9%
Woodstock Hydro Services Inc.	0.3%

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Reporting Glossary

Annual: the peak demand or energy savings that occur in a given year (includes resource savings from new program activity and resource savings persisting from previous years).

Cumulative Energy Savings: represents the sum of the annual energy savings that accrue over a defined period (in the context of this report the defined period is 2011 - 2014). This concept does not apply to peak demand savings.

End-User Level: resource savings in this report are measured at the customer level as opposed to the generator level (the difference being line losses).

Free-ridership: the percentage of participants who would have implemented the program measure or practice in the absence of the program.

Incremental: the new resource savings attributable to activity procured in a particular reporting period based on when the savings are considered to 'start'.

Initiative: a Conservation & Demand Management offering focusing on a particular opportunity or customer end-use (i.e. Retrofit, Fridge & Freezer Pickup).

Net-to-Gross Ratio: The ratio of net savings to gross savings, which takes into account factors such as free-ridership and spillover

Net Energy Savings (MWh): energy savings attributable to conservation and demand management activities net of free-riders, etc.

Net Peak Demand Savings (MW): peak demand savings attributable to conservation and demand management activities net of free-riders, etc.

Program: a group of initiatives that target a particular market sector (e.g. Consumer, Industrial).

Realization Rate: A comparison of observed or measured (evaluated) information to original reported savings which is used to adjust the gross savings estimates.

Settlement Account: the grouping of demand response facilities (contributors) into one contractual agreement

Spillover: Reductions in energy consumption and/or demand caused by the presence of the energy efficiency program, beyond the program-related gross savings of the participants. There can be participant and/or non-participant spillover.

Unit: for a specific initiative the relevant type of activity acquired in the market place (i.e. appliances picked up, projects completed, coupons redeemed).

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Table 11: Wellington North Power Inc. Initiative and Program Level Gross Savings by Year

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement**	Appliances	7	5	6	7	49,282	38,126	39,050	45,546
Appliance Exchange**	Appliances	0	2	0	0	679	4,034	0	702
HVAC Incentives	Equipment	17	18	13	13	34,489	33,692	24,473	24,970
Conservation Instant Coupon Booklet	Items	1	0	0	1	10,669	839	4,327	10,427
Bi-Annual Retailer Event	Items	1	1	1	3	17,012	16,481	16,398	44,432
Retailer Co-op	Items	0	0	0	0	0	0	0	0
Residential Demand Response	Devices	0	0	0	2	0	0	0	0
Residential Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	0	0	0	0	0	0	0
Consumer Program Total		**26**	**26**	**20**	**27**	**112,131**	**95,173**	**79,257**	**126,078**
Business Program									
Retrofit	Projects	1	136	20	42	2,921	452,006	98,729	134,623
Direct Install Lighting	Projects	27	35	0	25	80,710	126,559	25,725	98,197
Building Commissioning	Buildings	0	0	0	0	0	0	0	0
New Construction	Buildings	0	0	0	0	0	0	0	0
Energy Audit	Audits	0	0	0	0	0	0	0	0
Small Commercial Demand Response	Devices	0	0	0	1	0	0	0	0
Small Commercial Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	0	0	0	0	0	0	0	0
Business Program Total		**28**	**171**	**20**	**68**	**83,631**	**580,559**	**124,454**	**232,860**
Industrial Program									
Process & System Upgrades	Projects	0	0	0	0	0	0	0	0
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0
Energy Manager	Projects	0	0	0	0	0	0	0	0
Retrofit	Projects	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	0	0	0	0	0	0	0	0
Industrial Program Total		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Home Assistance Program									
Home Assistance Program	Homes	0	1	5	0	0	9,542	55,484	1,976
Home Assistance Program Total		**0**	**1**	**5**	**0**	**0**	**9,542**	**55,484**	**1,976**
Aboriginal Program									
Home Assistance Program	Homes	0	0	0	0	0	0	0	0
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0
Aboriginal Program Total		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	0	0	0	0	0	0	0	0
High Performance New Construction	Projects	0	0	0	0	554	138	0	0
Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0
MultiFamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0
LDC Custom Programs	Projects	0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011 Total		**0**	**0**	**0**	**0**	**554**	**138**	**0**	**0**
Other									
Program-Enabled Savings	Projects	0	0	0	0	0	0	0	0
Time-of-Use Savings	Homes	0	0	0	30	0	0	0	0
LDC Pilots	Projects	0	0	0	0	0	0	0	0
Other Total		**0**	**0**	**0**	**30**	**0**	**0**	**0**	**0**
Adjustments to 2011 Verified Results			**1**	**0**	**0**		**837**	**0**	**0**
Adjustments to 2012 Verified Results				**42**	**2**			**250,882**	**8,720**
Adjustments to 2013 Verified Results					**136**				**1,103**
Energy Efficiency Total		**53**	**198**	**53**	**130**	**196,316**	**685,413**	**258,194**	**361,113**
Demand Response Total		**0**	**0**	**0**	**3**	**0**	**0**	**0**	**0**
Adjustments to Previous Years' Verified Results Total		**0**	**1**	**42**	**137**	**0**	**837**	**250,882**	**9,830**
OPA-Contracted LDC Portfolio Total (inc. Adjustments)		**53**	**197**	**95**	**270**	**196,316**	**686,250**	**517,076**	**370,944**

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

*Includes adjustments after Final Reports were issued

Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results

**Net results substituted for gross results due to unavailability of data

Table 12: Adjustments to Wellington North Power Inc. Gross Verified Results due to Variances

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement	Appliances	0	0	0		0	0	0	
Appliance Exchange	Appliances	0	0	0		0	0	0	
HVAC Incentives	Equipment	-1	0	1		-1,672	11	1,090	
Conservation Instant Coupon Booklet	Items	0	0	0		162	0	13	
Bi-Annual Retailer Event	Items	0	0	0		1,501	0	0	
Retailer Co-op	Items	0	0	0		0	0	0	
Residential Demand Response	Devices	0	0	0		0	0	0	
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0	
Residential New Construction	Homes	0	0	0		0	0	0	
Consumer Program Total		**-1**	**0**	**1**		**-9**	**11**	**1,103**	
Business Program									
Retrofit	Projects	0	40	0		0	251,632	0	
Direct Install Lighting	Projects	0	2	0		845	7,239	0	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	0	0	0		0	0	0	
Energy Audit	Audits	0	0	0		0	0	0	
Small Commercial Demand Response	Devices	0	0	0		0	0	0	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Business Program Total		**0**	**42**	**0**		**845**	**258,872**	**0**	
Industrial Program									
Process & System Upgrades	Projects	0	0	0		0	0	0	
Monitoring & Targeting	Projects	0	0	0		0	0	0	
Energy Manager	Projects	0	0	0		0	0	0	
Retrofit	Projects	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Industrial Program Total		**0**	**0**	**0**		**0**	**0**	**0**	
Home Assistance Program									
Home Assistance Program	Homes	0	0	0		0	8,728	0	
Home Assistance Program Total		**0**	**0**	**0**		**0**	**8,728**	**0**	
Aboriginal Program									
Home Assistance Program	Homes	0	0	0		0	0	0	
Direct Install Lighting	Projects	0	0	0		0	0	0	
Aboriginal Program Total		**0**	**0**	**0**		**0**	**0**	**0**	
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	0	0	0		0	0	0	
High Performance New Construction	Projects	0	0	0		0	0	0	
Toronto Comprehensive	Projects	0	0	0		0	0	0	
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0	
LDC Custom Programs	Projects	0	0	0		0	0	0	
Pre-2011 Programs completed in 2011 Total		**0**	**0**	**0**		**0**	**0**	**0**	
Other									
Program Enabled Savings	Projects	0	0	135		0	0	0	
Time-of-Use Savings	Homes	0	0	0		0	0	0	
LDC Pilots	Projects	0	0	0		0	0	0	
Other Total		**0**	**0**	**135**		**0**	**0**	**0**	
Adjustments to 2011 Verified Results		**-1**				**837**			
Adjustments to 2012 Verified Results			**42**				**267,610**		
Adjustments to 2013 Verified Results				**136**				**1,103**	
Total Adjustments to Previous Years' Verified Results		**-1**	**42**	**136**		**837**	**267,610**	**1,103**	

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results

Table 13: Province-Wide Initiatives and Program Level Gross Savings by Year

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement**	Appliances	6,750	2,011	3,151	3,579	45,975,427	13,414,510	18,414,219	20,315,770
Appliance Exchange**	Appliances	718	556	2,131	2,239	875,531	974,621	3,746,106	3,990,372
HVAC Incentives	Equipment	53,209	38,346	40,419	40,467	59,413,400	44,929,213	71,375,017	90,274,414
Conservation Instant Coupon Booklet	Items	1,184	231	864	1,442	13,192,453	1,925,898	6,842,344	13,000,258
Bi-Annual Retailer Event	Items	1,504	1,472	1,142	4,626	26,899,265	29,221,870	16,441,329	70,254,471
Retailer Co-op	Items	0	0	0	0	3,917	0	0	0
Residential Demand Response	Devices	10,390	49,038	93,076	117,513	23,597	359,408	395,303	8,379
Residential Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	1	29	587	1,813	4,804	259,826	2,499,786
Consumer Program Total		**73,757**	**91,895**	**140,380**	**170,452**	**197,379,610**	**112,248,615**	**117,521,084**	**207,543,846**
Business Program									
Retrofit	Projects	34,201	78,969	82,696	98,849	184,870,265	347,817,248	476,403,896	642,515,421
Direct Install Lighting	Projects	22,155	20,469	19,007	24,794	65,777,197	68,896,046	68,160,249	69,524,509
Building Commissioning	Buildings	0	0	0	988	0	0	0	3,353,377
New Construction	Buildings	247	1,596	2,934	13,911	823,434	3,755,869	9,183,826	37,742,970
Energy Audit	Audits	0	1,450	4,293	9,367	0	7,049,351	21,366,238	46,013,517
Small Commercial Demand Response	Devices	55	187	771	2,316	131	1,048	979	319
Small Commercial Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	21,390	19,389	23,706	23,388	833,421	181,823	346,658	0
Business Program Total		**78,048**	**122,056**	**138,398**	**171,405**	**251,304,448**	**467,801,436**	**579,468,111**	**817,313,113**
Industrial Program									
Process & System Upgrades	Projects	0	0	313	11,267	0	0	2,799,766	90,463,617
Monitoring & Targeting	Projects	0	0	0	192	0	0	0	592,517
Energy Manager	Projects	0	1,014	1,953	5,767	0	7,067,535	24,408,070	44,929,364
Retrofit	Projects	6,372	0	0	0	38,812,869	0	0	0
Demand Response 3	Facilities	176,180	74,894	142,540	166,092	4,243,998	1,784,712	4,309,340	0
Industrial Program Total		**182,552**	**75,908**	**144,809**	**183,238**	**43,056,866**	**8,852,247**	**31,546,976**	**135,895,498**
Home Assistance Program									
Home Assistance Program	Homes	4	1,777	2,361	2,466	56,119	5,524,230	20,987,275	19,582,658
Home Assistance Program Total		**4**	**1,777**	**2,361**	**2,466**	**56,119**	**5,524,230**	**20,987,275**	**19,582,658**
Aboriginal Program									
Home Assistance Program	Homes	0	0	267	549	0	0	1,609,393	3,181,267
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0
Aboriginal Program Total		**0**	**0**	**267**	**549**	**0**	**0**	**1,609,393**	**3,181,267**
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	40,458	0	0	0	273,956,393	0	0	0
High Performance New Construction	Projects	10,197	6,501	772	268	52,375,183	21,693,888	3,522,240	1,377,478
Toronto Comprehensive	Projects	33,467	0	0	602	174,670,574	0	0	7,085,257
Multifamily Energy Efficiency Rebates	Projects	2,553	0	0	0	9,774,792	0	0	0
LDC Custom Programs	Projects	536	0	0	0	649,140	0	0	0
Pre-2011 Programs completed in 2011 Total		**87,369**	**6,501**	**772**	**1,870**	**460,822,879**	**21,693,888**	**3,522,240**	**8,462,735**
Other									
Program Enabled Savings	Projects	0	2,177	3,692	5,500	0	525,851	4,075,382	13,035,337
Time-of-Use Savings	Homes	0	0	0	54,795	0	0	0	0
LDC Pilots	Projects	0	0	0	1,170	0	0	0	5,061,522
Other Total		**0**	**2,177**	**3,692**	**60,296**	**0**	**525,851**	**4,075,382**	**18,035,337**
Adjustments to 2011 Verified Results			**13,266**	**845**	**1,601**		**48,705,294**	**28,581**	**6,878**
Adjustments to 2012 Verified Results				**8,632**	**13,449**			**54,301,893**	**59,098,998**
Adjustments to 2013 Verified Results					**34,727**				**206,413,150**
Energy Efficiency Total		**213,515**	**156,735**	**148,581**	**209,384**	**947,317,530**	**616,320,385**	**753,083,966**	**1,210,875,694**
Demand Response Total		**208,015**	**142,670**	**260,090**	**309,893**	**4,001,187**	**2,477,811**	**5,046,495**	**8,698**
Adjustments to Previous Years' Verified Results Total		**0**	**13,266**	**9,277**	**49,777**	**0**	**48,705,294**	**54,322,474**	**265,518,175**
OPA-Contracted LDC Portfolio Total (inc. Adjustments)		**421,530**	**312,671**	**417,948**	**568,052**	**947,318,646**	**667,452,690**	**813,052,934**	**1,476,452,566**

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results.
**Net results substituted for gross results due to unavailability of data.

Table 14: Adjustments to Province-Wide Gross Verified Results due to Variances

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement	Appliances	0	0	0		0	0	0	
Appliance Exchange	Appliances	0	0	0		0	0	0	
HVAC Incentives	Equipment	-8,759	1,091	2,157		-16,241,086	1,952,473	3,873,449	
Conservation Instant Coupon Booklet	Items	15	0	1		255,975	0	20,668	
Bi-Annual Retailer Event	Items	117	0	0		2,373,616	0	0	
Retailer Co-op	Items	0	0	0		0	0	0	
Residential Demand Response	Devices	0	0	0		0	0	0	
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0	
Residential New Construction	Homes	1	1	115		330,093	2,009	701,488	
Consumer Program Total		**-8,628**	**1,092**	**2,273**		**-13,281,402**	**1,954,483**	**4,595,605**	
Business Program									
Retrofit	Projects	4,511	10,114	16,584		22,046,931	58,528,789	108,677,566	
Direct Install Lighting	Projects	541	217	49		1,346,618	781,858	174,460	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	3,287	2,679	4,151		11,323,593	9,884,305	15,992,924	
Energy Audit	Audits	656	488	3,631		2,391,744	2,386,374	19,822,524	
Small Commercial Demand Response	Devices	0	0	0		0	0	0	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Business Program Total		**8,996**	**13,491**	**24,414**		**37,108,886**	**71,581,326**	**144,667,473**	
Industrial Program									
Process & System Upgrades	Projects	0	0	426		0	0	1,232,785	
Monitoring & Targeting	Projects	0	0	54		0	528,000	639,348	
Energy Manager	Projects	29	1,071	2,687		0	8,968,007	28,893,596	
Retrofit	Projects	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Industrial Program Total		**29**	**1,071**	**3,168**		**0**	**9,496,007**	**30,765,729**	
Home Assistance Program									
Home Assistance Program	Homes	0	222	791		0	1,316,749	4,321,794	
Home Assistance Program Total		**0**	**222**	**791**		**0**	**1,316,749**	**4,321,794**	
Aboriginal Program									
Home Assistance Program	Homes	0	0	134		0	0	563,715	
Direct Install Lighting	Projects	0	0	0		0	0	0	
Aboriginal Program Total		**0**	**0**	**134**		**0**	**0**	**563,715**	
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	266	0	0		1,049,108	0	0	
High Performance New Construction	Projects	13,072	727	405		23,905,663	5,665,066	1,535,048	
Toronto Comprehensive	Projects	0	1,920	529		0	12,924,335	3,783,965	
Multi-Family Energy Efficiency Rebates	Projects	0	0	0		0	0	0	
LDC Custom Programs	Projects	0	0	0		0	0	0	
Pre-2011 Programs completed in 2011 Total		**13,337**	**2,647**	**934**		**24,954,771**	**18,589,400**	**5,319,013**	
Other									
Program Enabled Savings	Projects	1,776	3,712	2,020		1,673,712	11,481,687	10,688,564	
Time-of-Use Savings	Homes	0	0	0		0	0	0	
LDC Pilots	Projects	0	0	0		0	0	0	
Other Total		**1,776**	**3,712**	**2,020**		**1,673,712**	**11,481,687**	**10,688,564**	
Adjustments to 2011 Verified Results		**15,511**				**50,455,967**			
Adjustments to 2012 Verified Results			**22,295**				**114,419,652**		
Adjustments to 2013 Verified Results				**33,734**				**200,921,892**	
Adjustments to Previous Years' Verified Results Total		**15,511**	**22,295**	**33,734**		**50,455,967**	**114,419,652**	**200,921,892**	

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

*Includes adjustments after Final Reports were issued

Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results