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# Load and Revenue Forecast

### 2 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:

- 8 1. Residential;
- 9 2. General Service less than 50 kW;
- 10 3. General Service 50 999 kW;
- 11 4. General Service 1,000 4,999 kW;
- 12 5. Unmetered Scattered Load (USL);
- 13 6. Sentinel Lighting; and
- 14 7. Street Lighting.
- 15 WNP does not anticipate any changes in its customer classes.
- 16
- 17 This exhibit also describes WNP's load and customer forecasts. The load forecast methodology
- and assumptions are described in detail within this Exhibit.
- 19
- 20 The evidence herein is organized according into the following topics;
- 1) Revenue and Load Forecast;
- 22 2) Accuracy of Load Forecast and Variance Analysis, and
- 23 3) Other Revenues.
- 24

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

Table 3.1 below shows estimated revenues from WNP's current 2015 distribution charges 2 applying the 2016 Test Year load forecast. Distribution Revenues are derived through a 3 combination of fixed monthly charges and volumetric charges applied to the utility's proposed 4 Load Forecast. Fixed rate revenues are determined by applying the current fixed monthly 5 charge to the number of customers or connections in each of the customer classes in each 6 month. Variable rate revenue is based on a volumetric rate applied to metered consumption or 7 demand volume. WNP's 2016 forecasted revenues recovered through its currently approved 8 distribution rates are projected at \$2,333,709 (exclusive of all rate riders). The revenues at 9 proposed distribution rates are presented at Exhibit 6 (Exhibit 6 / Tab 1 / Schedule 6.) 10

11

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#### Table 3.1: Revenues at Current Rates

Test Year								
			Test Year Proj	ected Revenue f	rom Existing Va	riable 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
<u>Test Year</u>	[		Test Year Pr	ojected Revenue	from Current F	ixed Charges		
Containing Class Name	Fixed	Customers	Fixed Charge	Variable	TOTAL	% Fixed	% Variable	% Total
Customer Class Name	Rate	(Connections)	Revenue	Revenue	TOTAL	Revenue	Revenue	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			

13

- 1 WNP is proposing a total Service Revenue Requirement of \$2,743,188 for the 2016 Test Year.
- 2 This amount includes a Base Revenue Requirement of \$2,592,599 plus revenue offsets of
- 3 \$150,588 to be recovered through Other Distribution Revenue.

4 Table 3.2 below summarizes WNP distribution revenue, by rate class and Other Operating

- 5 Revenue from the 2012 Board Approved amounts through to the 2016 Test Year:
- 6

Table 3.2:	Distribution	Revenues -	Actual	and	Projected
------------	--------------	------------	--------	-----	-----------

Distribution Revenue	2012 Board Approved	2012 Actual	2013 Actual	2013         2014         2015           Actual         Actual         Bridge Year           1,197,086         \$1,216,804         \$1,202,398         \$           ;484,205         \$472,915         \$423,140         \$           ;310,308         \$294,553         \$270,690         \$           ;341,406         \$364,426         \$340,213         \$           \$332         \$351         \$261         \$           \$3,121         \$3,079         \$3,099         \$           \$93,334         \$94,101         \$93,908         \$           2,429,792         \$2,446,230         \$2,333,709         \$           \$52,799         \$52,388         \$58,115         \$           \$26,086         \$26,748         \$27,012         \$           \$48,873         \$48,162         \$60,751         \$           \$326         \$27,459         \$2,000         \$         \$           \$326         \$27,459         \$2,000         \$         \$           \$326         \$27,459         \$         \$         \$           \$326         \$         \$         \$         \$         \$           \$326         \$         \$         \$	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

7

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.

8

9 Table 3.3 below presents the actual and forecast trends for customer/connection counts, kWh

10 consumption and billed kW demand.

11

12

Wellington North Rower Inc. We	ather Norm	al Load Fore	cast for 2016	Pate Applic	ation							
EP 2015 0140	auter Norm	ai Load Fore	Cast IOI 2010	Rate Applic	auon							
EB-2010-0110											2045	2040
	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 4 9 0	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

#### Table 3.3: Customer and Volume Trend Table

Wellington North Power Inc. EB-2015-0110 Exhibit 3 – Revenues Filed: October 2015

#### 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.

13

The methodology proposed in this application predicts wholesale consumption using a 14 regression analysis that relates historical monthly wholesale kWh usage to monthly historical 15 16 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 17 temperature. The most readily available heating degree days come with a base temperature of 18 18°C. Cooling degree-day figures also come with a base temperature, and provide a measure of 19 how much, and for how long, the outside temperature was above that base temperature. For 20 degree days, daily observations as reported at Environment Canada's weather station at Mount 21 Forest (latitude: 43°59'00.000" N; longitude: 80°45'00.000" W, elevation 414.50 metres) are 22 used. For employment levels, monthly full-time employment for the Kitchener-Waterloo-Barrie 23 area, as reported in Statistics Canada's Monthly Labour Force Survey (CANSIM) has been used. 24 The regression model also uses other variables which are tested to see their relationship and 25 contribution to the fluctuating wholesale purchases. Each variable is discussed in detail later in 26 this section. 27

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

- 2 The following section outlines details of the proposed Load Forecast:
- 3

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

5 WNP is projecting customer numbers to steadily increase (growth) in the residential class and

6 virtually no change in all customer classes as illustrated in the table below:

- 7
- 8

#### Table 3.4: Customer / Connection Projections

	Yearly Average Customer / Connection Count											
		2010	2011	2012	2013	2014	5 year Average	2015	2016			
Customer Class		Actual	Actual	Actual	Actual	Actual	Average	Forecast	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%			

9 10

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."

24

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 16 decade, reflecting a broader industry trend evident in other Ontario regions. It also reflects the 17 challenges faced in most parts of rural Ontario and Canada with its relatively narrow economic 18 base and concentration in slow growing or declining industries. Its younger residents are 19 increasingly drawn to larger urban centers leaving a relatively older population. In WNP's 20 opinion, the service area has seen the customer base for General Service 50-999 kW and 21 General Service 1,000 to 4,999 kW remaining steady over the past few years, as reflected in 22 Table 3.4. The three manufacturing customers (consisting of 5 accounts in Table 3.4) in the 23 General Service 1,000 to 4,999 kW were affected by the 2008/2009 Economic downturn in the 24 global economy, affecting their production levels and shift-patterns. WNP has observed these 25 customers load patterns steadily increasing, to the extent that one of the customers is seeking 26 an increase in their kW demand at their plant. This customer's specific demand increase is 27 referenced in a letter to the utility and included in WNP's 2015 Distribution System Plan in 28 Exhibit 2 as Appendix 2A:"Stakeholder Letters supporting the second feeder" to the town of 29 Mount Forest (Appendix 5E of the DSP). 30

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

2 WNP purchases its power from the Independent Electricity Systems Operator (IESO). The

- <sup>3</sup> following tables summarize the unadjusted monthly kWh wholesale purchases:
- 4

```
5
```

#### 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 vear-over-vear		0.6%	2.2%	-1.4%	-7.1%	9.8%	2.9%	2.6%	1.7%	1.8%





' 8

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



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11

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.

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

3



#### Table 3.7: 2014 Customer Billed kWh (without Losses)

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



10

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 <u>no</u> (0) Wholesale Market Participant (WMP) customers so there were no wholesale adjustments required for this customer class
- 7 Table 3.9 below summarizes the kWh generated from WNP's MicroFIT and FIT customers:
- 8

Table 3.9: MicroFIT / FIT Generated kWh Volumes

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

9

- <sup>10</sup> 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:
- 12

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

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

4

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

- 6 The "Adjusted kWh Wholesale Purchases" represented in the above table were used in WNP's 7 regression analysis.
- 8 On reviewing WNP's "Adjusted kWh Wholesale Purchases" for the latest five-year period 2011
- 9 to 2014, there are external factors that have influenced the kWh values for some of the months.

10

5

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

kWh Purchased						
		2010	2011	2012	2013	2014
Ja	an	9,555,507	9,903,572	9,972,298	10,233,667	10,802,165
Fe	eb	8,513,222	9,131,887	9,271,454	9,386,329	9,713,837
М	lar	8,793,380	9,830,569	9,419,790	9,844,444	10,411,368
A	hpr	7,779,667	8,007,602	8,532,736	8,384,378	9,211,204
Ma	ay	8,100,891	7,978,404	8,628,741	8,924,156	9,045,768
Ju	un	7,984,499	7,956,701	8,655,297	8,570,390	8,608,785
J	Jul	8,350,976	8,305,370	8,786,351	8,833,492	8,511,532
Au	ug	8,692,122	8,892,663	9,221,561	8,921,170	8,969,486
Se	ер	8,099,938	8,391,725	8,467,393	8,528,477	8,920,999
C	Oct	8,501,578	8,952,307	9,163,547	9,317,564	9,412,613
N	ov	8,832,882	8,881,318	9,022,713	9,567,660	9,376,999
Di	ес	9,403,627	9,393,581	9,269,936	9,802,333	9,435,758
Tot	tal	102,608,289	105,625,698	108,411,817	110,314,060	112,420,512

11

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:

<u>2011 Jan – Mar:</u> 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.

<u>2012 Apr – Aug:</u> 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 11 averages. On April 12th and 13th, a major Ice Storm caused power outages in WNP's 12 service area of Mount Forest and Holstein with an outage from 3:00am to 9:20pm (18 hours) 13 due to downed Hydro One 44KV power line that supplies these communities. There were 14 numerous tree related issues in WNP's system, largely on the secondary side; however, 15 WNP was fairly fortunate given the severity of the storm. There was another power outage 16 on December 22nd in WNP's service area of Arthur caused by another winter ice-storm -17 this outage lasted three hours. 18

<u>2014 Jan – Apr</u>: 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-bymonth over the 5-year period:







#### 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;
- 6 b) Number of days per month;
- 7 c) Number of Peak Hours;
- a) 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.
- <sup>15</sup> Specifics relating to each variable used in the regression analysis are presented at the next <sup>16</sup> section.
- 17

#### 18 a) Heating and Cooling:

In order to determine the relationship between observed weather and energy consumption, 19 monthly weather observations describing the extent of heating or cooling required within the 20 21 month are necessary. Environment Canada publishes monthly observations on heating degree days (HDD) and cooling degree days (CDD) for selected weather stations across Canada. 22 Heating degree-days for a given day are the number of Celsius degrees that the mean 23 temperature is below 18°C. Cooling degree-days for a given day are the number of Celsius 24 degrees that the mean temperature is above 18°C. For WNP, the monthly HDD and CDD as 25 reported at Environment Canada's weather station at Mount Forest (latitude: 43°59'00.000" N; 26 longitude: 80°45'00.000" W, elevation 414.50 metres) was used. 27

28

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.

7

#### 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		1	1 '	1	1	1		1 '	14.70	2.40	0.00 '	0.00	
	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	0.34	0.26	12.07 8.94	40.56 35.87	68.02 59.02	48.40 43.93	14.79	1.60	0.00	0.00	

#### b) Number of days per month: 1

WNP also used a "Days per month" variable because this identifies seasonal peaks and 2 3 less/more days in calendar months.

4

#### 5 c) Number of Peak Hours:

Peak hours refers to the times highest electricity use over the course of the day. WNP 6 calculated this by multiplying 16 hours by the number of business day in any given month 7 (excluding weekends and holidays.) 8

9

#### d) Employment Factor: 10

In order to measure the change in economic activity, a data series must be chosen which 11 represents, as much as possible, regional economic activity. WNP used the monthly full-time 12 employment levels for the economic region of Kitchener-Waterloo-Barrie in Ontario as reported 13 in Statistics Canada's Monthly Labour Force Survey (CANSIM). This variable was included 14 because, as per the Economic Outlook in Exhibit 3 / Tab 1 Schedule 6, the Township of 15 Wellington North has a lower percentage of people of working age (15 to 64) when compared 16 to the national average and the level of employment is a good indicator of growth in a region. 17

18 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. 19

#### 20

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

#### 1 e) Sensitive customers:

Lastly, WNP also used a "Sensitive Customers" variable which consists of the two 2 manufacturing customers comprising of three accounts (in the rate class of GS 1000-4999kW.) 3 These customers energy usage make-up a significant portion of WNP's total annual billed 4 volumes; for example these accounts in 2014 kWh billed (without losses) was 38,287,673 with 5 WNP's 2014 kWh billed for the whole year being 104,009,438, meaning these customers 6 accounted for 37% of the annual kWh total.) These customers are also "sensitive" to economic 7 climate, as demonstrated in the 2008/2009 Global Recession when they altered their load and 8 shift patterns. 9

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:

19

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

20 21

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

- 2 Scenarios.
- 3

4 To project the adjusted wholesale purchases for the 2015 Bridge Year and 2016 Test Year, the

5 model uses for the following mathematical conventions:

6

	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.

7 <u>Note:</u>

8 Regarding variable (e) Sensitive customers, WNP used a 10 year trend of the actual monthly

<sup>9</sup> 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.

1 2

#### Table 3.17: Comparison of applying 10-year Trend and 10-year Average to Two "Sensitive"

#### Customers Purchased kWh Purchased Variable

	1	1	Maria I. a. a. f.	Number	1	Constitute		1
	Heating	Cooling	Number of	Number	Regional	Sensitive		
	Degree Day	Degree Day	Days in	of Peak	Employment	Customers	Predicted Purchases	
	begree buy	begree buy	Month	Hours	Employment	(Purchased kWh)		
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 /3	8 / 12 3/9	
Aug 15	606.20	0.00	29	304	620.40	1,300,333.43	9 450 016	
Aug-15	030.20	0.00	20	304	033.40	1,270,027.30	0,455,010	
Sep-15	095.00	0.00	31	352	027.00	1,599,507.15	0,230,010	
Oct-15	736.00	0.00	30	320	623.90	1,681,721.41	8,869,351	0045 T . I
Nov-15	698.00	0.00	31	320	622.70	1,481,788.71	8,967,661	2015 I otal
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	2,335,305.37	8 794 346	
Nov 16	608.00	0.00	31	320	641.60	2,170,410.20	9.042.666	2016 Total
Dec 16	090.00	0.00	20	320	641.00	2,343,004.32	9,042,000	105 0C4 177
Dec-16	299.10	1.40		352	007.20	2,300,950.20	9,370,209	105,964,177
						10 yr Average		
						0.14		
	Heating	Coolina	Number of	Number	Regional	Sensitive		
	Degree Day	Degree Day	Days in	of Peak	Employment	Customers	Predicted Purchases	
	begree buy	begree buy	Month	Hours	Employment	(Purchased kWh)		
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	
Son-15	273.20	1.00	30	352	681.80	2 456 376 39	8 687 029	
Oct 15	1/9 20	24.00	21	320	601.00	2,430,370.33	0,007,023	
Nev 15	140.ZU	24.00	24	200	604.00	2,300,009.04	0,400,044	2015 Tatal
Dec 45	55.Z3	10.70	31	200	094.90	2,419,501.23	3,402,011	2010 10(81
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			30					1
201.10	148 20	24 00	31	336	682 00	2 386 869 04	9,136,339	
Nov-16	148.20	24.00	31	336 352	682.00 678.50	2,386,869.04	9,136,339	2016 Total
Nov-16	148.20 55.23 12.70	24.00 18.70 89.70	31 31 30	336 352 304	682.00 678.50 671.90	2,386,869.04 2,419,561.23 2,444,891,81	9,136,339 9,557,815	2016 Total
Nov-16 Dec-16	148.20 55.23 12.70	24.00 18.70 89.70	31 31 30	336 352 304	682.00 678.50 671.90	2,386,869.04 2,419,561.23 2,444,891.81	9,136,339 9,557,815 10,114,283	2016 Total 111,517,168

- 1 The table below shows the sources of data used for the variables used in WNP's Load
- 2 Forecast:
- 3

#### Table 3.18: Origin of Variables:

	Variable	Contention Applied to Bridge and Test Year						
a)	Heating and Cooling Days:	Environment Canada ( <u>http://climate.weather.gc.ca/</u> ) 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 ( <u>http://www5.statcan.gc.ca/cansim/a47</u> ) using CANSIM Table 282-01222 for the region of "Kitchener- Waterloo-Barrie, Ontario"						
e)	Sensitive customers:	Used utility actual data						

- 4 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*];
- 7 b) GDP this was also excluded because the variable did not yield particularly significant results
- 8 although it did slightly improve the R Square [*Scenario* 6]; and
- 9 c) CDM this was excluded because the variable a positive coefficient of 0.78; this variable
- 10 should yield a negative coefficient since CDM should reduce usage [Scenario 7].

11 The eight scenarios tested by the WNP and their outcomes can be found in Appendix 3B -

12 "Regression Scenarios Performed."

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

- 2 Table 3.19 below presents the regression results used to determine the load forecast:
- 3
- 4

Table 3.19:	<b>Correlation/Regression Results</b>
-------------	---------------------------------------

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 Day	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 Ho	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

- 1 The resulting regression equation yields an adjusted R-squared of 88.68%. When actual annual
- 2 wholesale values are compared to annual values predicted by the regression equation, the
- 3 mean absolute percentage error (MAPE) is 1.54%.
- 4 The prediction formula has the following statistical results:
- 5

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
<li>f) Regional Employment</li>	3.884
<ul> <li>g) Sensitive Customers</li> </ul>	9.947

Table 3.20: Regression Results

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:





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

3

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	

Table 3.22: Actual Purchased kWh versus Adjusted kWh

4

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.

- 1 The tables below illustrate the effect on the 2016 Test Year Load Forecast by using a 10 year
- 2 average, a 20 year average and a 20-year trend to weather normalized wholesale purchases is
- 3 presented in the Tables below:
- 4

5

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	1
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

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7

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

#### 8

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#### 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

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#### 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.

	Resid	dential	General Ser	vice < 50 kW	General Servi 999	ice > 50 kW - kW	General Servi 499	ce > 1000 kW 9 kW	Street	Lights	Sentine	el Lights	Unmetered S	cattered Load	Total Custo	mers
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
																L
Geomean		1.0119		1.0026		0.9964		1.0000		0.9956		1.0221		0.7650		1.0071
																L
2015	3,228		474		38		5		901			29		1	4,647	L
2016	3,267		476		38		5		897			29		1	4,682	
In the section belo	ow, LDCs can	adjust the co	omputed cust	omer count f	for the Bridge	and Test Yea	ar for special	circumstance	such as new	subdivision	or loss of cus	tomer or othe	r utility speci	fic reasons.		
Adjusted															Adjuste	d
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 co	mputes an ave	erage custome	r count. Utility	may chose to	o overwrite the	customer/con	nection count i	f a year end co	unt is more ap	opropriate.						
						FINAL AD	JUSTED NUM	IBERS							Adjuste	d
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

#### Table 3.26: Customer Forecast

3 <u>Note:</u>

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

4 5

2

#### 1 **Residential Customers:**

WNP have observed that that customer numbers in the Residential class steadily increasing at 2 an average of just below 1% (0.94%) from 2010 to 2014, as illustrated in the above Table 3.4 3 "Customer / Connection Projections". However, in the table above, Table 3.26, "Customer 4 Forecast", using the 10-tyear geomean of 1.0194 would result in customer projections of 3,228 5 and 3,267 for the 2015 Bridge Year and 2016 Test Year respectively, an increase of 1.19%. In 6 WNP's opinion, this increase is slightly high and therefore WNP proposes that the geomean for 7 8 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 9 revised growth numbers in its Load Forecast. 10

#### 11 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.

#### 15 **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.

#### 19 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 22 for this customer class.

#### 23 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.

#### 1 Sentinel Lights:

- 2 WNP has used the geomean average of 1.0221 derived from the ten year actuals (2005 to
- <sup>3</sup> 2014) and proposes no revisions to the customer growth projections shown in Table 3.26 above
- 4 for this customer class.

#### 5 **Unmetered Scattered Load:**

- 6 WNP has used the geomean average of 0.7650 derived from the ten year actuals (2005 to
- 7 2014) and proposes no revisions to the customer growth projections shown in Table 3.26 above
- 8 for this customer class.

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#### 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 2 related to moving the forecast to a weather normal basis. This difference will be assigned to 3 those rate classes that are weather sensitive. WNP used the weather normalization work 4 completed by Hydro One for WNP for its' 2007 Cost Allocation Study as a starting point and has 5 shown its weather sensitivity by rate class below in Table 3-27. WNP has applied a weather 6 sensitivity factor of 83%, which is the mid-point between the 100% HONI reported for these two 7 8 classes and the GS 50-999KW sensitivity factor of 65%. None of the other rate classes were assumed to be weather sensitive. 9

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#### 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%						

11 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-N	ormalized We	ather Billed Ene	rgy Foreca	st (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
			Adjustm	ent 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 V	Veather Billed Er	nergy Fore	cast (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.

2 There are four rate classes that charge volumetric distribution on per a kW basis. These include

- 3 GS >50-999 kW, GS >1000-4999 kW, Street Lighting, and Sentinel Lighting. As a result, the
- 4 energy forecast for these classes needs to be converted to a kW basis for rate setting purposes.
- 5 The forecast of kW for these rate classes is based on an average analysis of the historical ratio
- <sup>6</sup> of kW to kWhs and applying this ratio to the forecasted kWh to produce the required KW. Table
- 7 3-29 summarizes the historical annual demand units by applicable rate class:
- 8

Table 3.29:	Historic	Annual	kW b	y Class
-------------	----------	--------	------	---------

	Year	General Service 50 to 999 kW	General Service 1000 to 4,999 kW	Street Lights	Sentinel Lights	Total
	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
LW.	2009	64,960	72,545	2,026	93	139,624
KVV	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

9

10 WNP has adopted the average analysis approach to provide a forecast of kW for the applicable

11 rate classes as shown in Table 3-30:

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

		General Service	General Service	Street	Sentinel	Total
	Year	50 to 999 kW	1000 to 4,999 kW	Lights	Lights	
	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
LIM.	2009	64,960	72,545	2,026	93	139,624
KVV	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
	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
KVVh	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
	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%	
kvv / kvvh	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 vea	r Average	0.28%	0.25%	0 27%	0.28%	
4 yea	r 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	
22.5.5.000 . Cui		.0,.00,014	50,0.0,200	. 20,002	20,.20	

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;

8

#### 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 2016 Test Year	kW kW	44,272 41,588	109,361 108,301	1,988 1,995	68 65

9

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.

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

- 2 Table 3.32 below illustrates the historical and projected weather normalized Load Forecast by customer class.
- 3

Wellington North Power Inc. We	ather Norm	al Load Fore	cast for 2016	Rate Applic	ation							
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

#### Table 3.32: Final Load Forecast (not CDM adjusted)

# Impact and Persistence from Historical CDM Programs

#### 2 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.

10 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 Yea	ar (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

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		6	Vear (2015-2020				
•		U	Tear (2013-2020	N KVVII Taiget.			
			5,900,0	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%
			kW	h			
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

Weight	Factor for Incl	usion in CDM A	djustment to 20	014 Load Foreca	ast		
	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	Full year	Full year	Default is 0,	Default is 0,	Full year	Only 50% of	
selection rationale.	persistence	persistence of	but one	but one	impact of	2016 CDM	
	of 2011 CDM	2012 CDM	option is for	option is for	persistence of	programs are	
	programs on	programs on	full year	full year	2015	assumed to	
	2015 load	2015 load	impact of	impact of	programs on	impact the 2016	
	forecast.	forecast. Full	persistence of	persistence of	2015 load	load forecast	
	Full impact	impact	2013 CDM	2014 CDM	forecast.	based on the	
	assumed	assumed	programs on	programs on	2015 CDM	"half-year" rule.	
	because of	because of	2015 load	2014 load	program		
	50% impact	50% impact in	forecast, but	forecast, but	impacts are		
	in 2011 (first	2012 (first	50% impact in	50% impact in	not in the		
	year) but full	year) but full	base forecast	base forecast	base		
	year	year	(first year	(first year	forecast.		
	persistence	persistence	impact of	impact of			
	impact on	impact on	2013 CDM	2014 CDM			
	2012 and	2013, and	programs on	programs on			
	2013, and	thus reflected	2013 load	2014 actuals,			
	thus	in base	forecast,	which is part			
	reflected in	forecast	which is part	of the data			

#### Table 3.35: Weight Factor Applied to 2014 due to CDM

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#### 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%		<b>,</b>	· ·	,		-
Manual Adjustment for 2016 Load Forecast (system purchased basis)	-	-	-	172,199.76	1,047,842.03	523,921.02	1,743,962.81

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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 2<sup>nd</sup> 2015 and the Q4 results are presented as an appendix to this Exhibit.

7

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

2 WNP's CDM target is 5,900,000 between 2015 to 2020 which at a 16.67 target rate per year 3 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.
- 8 [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.

11 [1⁄2 x 323,197kWh + 983,333 + 1⁄2 x 983,333 = 1,636,599 kWh]

12

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.

17

	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 Yea	nr CDM Adj	ustment to Lo	ad Forecast	
2016 Test Yea	ar CDM Adj	ustment to Loa CDM kWh Target	ad Forecast Adjusted kWh	Final Adjuste
2016 Test Yea	Share	CDM kWh Target 413,670	ad Forecast Adjusted kWh 26,419,136	Final Adjuste kWh 26,005,466
2016 Test Yea Residential General Service < 50 kW	r CDM Adji Share 25% 12%	CDM kWh Target 413,670 188,581	ad Forecast Adjusted kWh 26,419,136 12,043,794	Final Adjuster kWh 26,005,466 11,855,213
2016 Test Yea Residential General Service < 50 kW General Service 50 to 999 kW	ar CDM Adji Share 25% 12% 13%	CDM kWh Target 413,670 188,581 215,359	ad Forecast Adjusted kWh 26,419,136 12,043,794 13,705,273	Final Adjuste kWh 26,005,466 11,855,213 13,489,914 0
2016 Test Yea Residential General Service < 50 kW General Service 50 to 999 kW General Service 1000 to 4,999 kW	r CDM Adj Share 25% 12% 13% 50%	CDM kWh Target 413,670 188,581 215,359 818,988	Adjusted kWh 26,419,136 12,043,794 13,705,273 51,432,197	Final Adjuste kWh 26,005,466 11,855,213 13,489,914 0 50,613,209
2016 Test Yea Residential General Service < 50 kW General Service 50 to 999 kW General Service 1000 to 4,999 kW Street Lights	ar CDM Adji Share 25% 12% 13% 50% 0%	ustment to Loa CDM kWh Target 413,670 188,581 215,359 818,988 0	ad Forecast Adjusted kWh 26,419,136 12,043,794 13,705,273 51,432,197 725,392	Final Adjuste kWh 26,005,466 11,855,213 13,489,914 0 50,613,209 725,392
2016 Test Yea Residential General Service < 50 kW General Service 50 to 999 kW General Service 1000 to 4,999 kW Street Lights Sentinel Lights	ar CDM Adji Share 25% 12% 13% 50% 0%	ustment to Loa CDM kWh Target 413,670 188,581 215,359 818,988 0 0 0	ad Forecast Adjusted kWh 26,419,136 12,043,794 13,705,273 51,432,197 725,392 23,128	Final Adjuste kWh 26,005,466 11,855,213 13,489,914 0 50,613,209 725,392 23,128
2016 Test Yea Residential General Service < 50 kW General Service 50 to 999 kW General Service 1000 to 4,999 kW Street Lights Sentinel Lights Unmetered Loads	ar CDM Adji Share 25% 12% 13% 50% 0% 0% 0%	ustment to Loa CDM kWh Target 413,670 188,581 215,359 818,988 0 0 0 0	ad Forecast Adjusted kWh 26,419,136 12,043,794 13,705,273 51,432,197 725,392 23,128 3,024	Final Adjuste kWh 26,005,466 11,855,213 13,489,914 0 50,613,209 725,392 23,128 3,024

### Table 3.37: CDM adjustments to Load Forecast

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

2 Table 3.38 below provides details of the Final Customer and Volume Load Forecast for each of

- 3 the years. This summary of the billing determinants by rate class will be used to develop WNP's
- 4 proposed rates.
- 5
- 6

#### Table 3.38: Final Customer and Volume Load Forecast

Wellington North Power Inc. We	ather Norm	al Load Fore	cast for 2016	Rate Applic	ation							
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 Predicted kWh Purchases after CDM						0	0	0	0	0	(698,121) 110,616,779	(1,748,974) 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 kWh	2,869 25,217,181	2,923 25,227,824	2,959 25,023,794	3,002 25,142,788	3,037 25,158,787	3,073 25,200,723	3,103 25,802,534	3,126 24,795,447	3,161 25,357,835	3,190 25,941,256	3,220 25,595,036	3,251 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

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

3 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

5 by rate class and total system load in kWh and variances.

6

### 7 **Distribution Revenues:**

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

9

			Number of	-	Test Year Co	onsumption	E	xisting Rate	Devenues at	
Rate Class	Customers/ Connections	Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volun	netric	Exisitng Rates Rates
								kWh k1		
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	57.12 \$7.928		\$93,139.17
Total										\$ 2,340,433

10

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

12

#### Table 3.40: 2016 Test Year Revenue on Proposed Rates

Rate Class			Number of		Test Year Co	onsumption	P	roposed Ra	tes	
	Customers/ Connections	Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volum	netric	Revenues at Proposed Rates
								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	30 \$ 7.231		\$61,122.99
Total										\$ 2,600,149

- 1 Table 3.41 below compares the customer / connection numbers, kWh and kW volumes as well as distribution revenue from the 2012 Board
- 2 Approved date through to the 2016 Test Year.
- 3

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

		2012 Board	2012 Actual	Variance 2012 Actu	between Ial versus	2013 Actual	Variance b 2013 Actua	oetween al versus	2014 Actual	Variance b 2014 Actua	oetween al versus	2015 Bridge	Variance betv Bridge Yea	veen 2015 r versus	2016 Test	Variance 2016 Te	between st Year
		Approved		Board A	pproved		2012 A	ctual		2013 A	ctual	rear	2014 Ad	tual	Year	versus 20*	15 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 k	W 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%
lotal																	
1	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 fr	rom 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%

5 Notes:

4

7

9

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).

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

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

3

			Re	esidential C	ass					
Year	Customers	# Change	% Change	kWh	% Change		Average kWh per Customer per month	 	Distribution Revenue	% Change
2005	2,869			25,217,181		ļ	733	1		
2006	2,923	55	1.91%	25,227,824	0.04%	, I	719	1		
2007	2,959	35	1.21%	25,023,794	-0.81%	, I	705	I		
2008	3,002	43	1.47%	25,142,788	0.48%	, I	698	I		
2009	3,037	35	1.17%	25,158,787	0.06%	, I	690	1		
2010	3,073	36	1.17%	25,200,723	0.17%	, I	683	1		
2011	3,103	30	0.99%	25,802,534	2.39%	, I	693	1		
2012	3,126	23	0.74%	24,795,447	-3.90%	ļ	661	17	\$1,204,974	í
2013	3,161	34	1.09%	25,357,835	2.27%	ļ	669	L I	\$1,197,086	-0.7%
2014	3,190	30	0.95%	25,941,256	2.30%		678	17	\$1,216,804	1.6%
2015 - Bridge Year	3,220	30	0.94%	25,595,036	-1.33%		662	, I	\$1,202,398	-1.2%
2016 - Test Year	3,251	30	0.94%	26,005,466	1.60%	, I	667	, I	\$1,376,020	14.4%

#### Table 3.42: Residential Variance

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 8 the age of 64, a lower percentage of people of working age (15 to 64) and lower percentage of 9 children (aged 14 or under) when compared to the national average. WNP believes this 10 population composite is a fair reflection in the service territory that the utility manages within the 11 Township of Wellington North. Over the past five years, there has been an increase in the 12 number of private gated retirement communities and fewer new-build residential properties on 13 vacant land. There is anticipation of growth and new sub-divisions being planned as discussed 14 in Exhibit 2 Appendix 2A - WNP's 2015 Distribution System Plan - section 5.2.2.4: 15 "Consultations with Municipal Planning Office" whose reports suggest the area will see 16 population growth between now and 2041. Residential customer count is expected to grow by 17 30 in 2015 and 30 in 2016. 18

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-torevenue ratios for this customer class (as discussed in Exhibit 7) as well as projected additional 30 residential customers in this year.

6

7 Table 3.43 below shows the yearly change in consumption and distribution revenue for the

8 General Service <50 kW class.

9

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%	

#### Table 3.43: General Service <50kW Variance

10

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 1 customer per month increased in 2013 and 2014 compared to 2012 as a result of a colder and

2 longer winter periods as illustrated in Table 1.12 and discussed on pages 13 and 14.

3 Distribution Revenue for the General Service <50kW class has fluctuated from 2012 to 2014.

4 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

6 average usage per customer per month.

7 Table 3.44 below shows the yearly change in consumption and distribution revenue for the

8 General Service 50-999kW class.

9

				Gener	al Service 5	50 - 9	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		1	63,193	1 [	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	ς,	-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%	1	48,281	1 [	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%

#### Table 3.44: General Service 50-999kW Variance

10

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.

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

2
J

4

				General	Service 10	00 -	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%

#### Table 3.45: General Service 1000-4999kW Variance

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).

1 Street Lighting and Sentinel Lighting rate class show that connections have also been

- 2 historically stable as depicted in the tables below, with WNP predicting no connection growth for
- 3 these classes:

4

					Street Lig	hts						
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%

#### Table 3.46: Street Lights Variance

5

Distribution revenue in 2012 is lower than compared to 2013 due to WNP's 2012 Cost of
Service applications rates being implemented on October 1<sup>st</sup> 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).

11

#### Table 3.47: Sentinel Lights Variance

					Sentinel Li	ghts					
Year	Connection	# Change	% Change	kWh	% Change		Average kWh per Month	kW		Distribution Revenue	% Change
2005	23			39,379		1	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	1	\$3,099	0.7%
2016 - Test Year	29	1	2.21%	23,128	-4.72%	1	1.927	1.995		\$5,560	79.4%

12

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

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

3

			Unmete	ered Scatte	red 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%

**Table 3.48: Unmetered Scattered Load** 

#### 4

5 WNP agrees with the model projections which predict no growth in connections for either the 6 2015 Bridge Year of 2016 Test Year. Distribution revenues for this rate class have been 7 inconsistent between 2012 to 2014 corresponding fluctuations in energy consumption. The 2016 8 Test Year decrease is due to updating the cost-to-revenue ratios for this customer class (as 9 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.

6 WNP anticipates the General Service 1000-4999kW class energy consumption to level-out as 7 customers and not to increase at the dramatic rate experienced in 2012 and 2013. WNP is 8 engaged with the customers concerning future energy conservation (CDM) programs which 9 support the slight reduction in kWh in the 2016 Test Year when compared to the 2015 Bridge 10 Year.

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

12

		2015 Bridge	2016 Test	%
		Year	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 3.49: Variance Analysis by Class

Wellington North Power Inc. EB-2015-0110 Exhibit 3 – Revenues Filed: October 2015

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.

7

	Residential Class General Ser <50kW		eneral Service <50kW 50 - 999kW		General Service 1000 - 4999kW		Street Lights		Sentinel Lights		Unmetered Scattered Load			
	per Customer	per	per Customer	per	per Customer	per	per Customer	per	Average		Average		per	per
	per month	Customer	per month	Customer	per month	Customer	per month	Customer	kWh per	kW	kWh per	kW	Connection	Connection
	kWh	kW	kWh	kW	kWh	kW	kWh	kW	month		month		kWh	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: Average per Customer / Connection

8

9 Table 3.50 on the following page is an extract from the Board's Chapter 2 Filing Requirements -

10 Appendix 2-IA and highlights the variances between Actual and Forecast data.

Appendix 2-IA											
	Summary an	d Variances	of Actual ar	nd Forecast	Data						
	2012 Board	2012	2013	2014	2015 Bridge	2016 Test					
Rate Class - Residential	Approved										
# 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		4.070/	0.000/	0.000/	4.0400	0.070/					
# of Customers		-1.07%	0.02%	0.96%	1.91%	2.87%					
kW		0.00%	0.00%	0.00%	0.00%	0.00%					
Rate Class - General Service	e <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		2 30%	3.02%	3.25%	3.01%	2 76%					
# of Customers		9.40%	-3.02 %	-5.25%	9.25%	-2.76%					
kW		0.00%	0.00%	0.00%	0.00%	0.00%					
	50										
# of Customore	e 50 - 999 kW	20	20	20	20	20					
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	ľ	32.19%	5.40%	-6.46%	-13.16%	-18.42%					
Rate Class - General Service	e 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					
KVV Variance Analysis	97,926	89,307	103,015	110,732	109,361	108,301					
# of Customore		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%					
Data Class Stroot 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%					
kvv		1.98%[	2.76%[	3.02%[	3.29%	3.63%					
Rate Class - Sentinel Lights	17										
# of Connections	1/	28	28	28	29	29					
	29,201	20,093	26,093	25,476	24,275	23,120					
Variance Analysis	00	12	12		00	05					
# 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 Sca	ttered Load										
# of Connections	1	1	2	1	1	1					
kWh	3,969	7,563	5,733	5,733	4,164	3,024					
KVV Verience 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%					

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

# 1 Other Revenues

# 2 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.

- 7
- 8 Other Distribution Revenues includes items such as:
- 9 Specific Service Charges
- 10 Late Payment Charges
- Other Distribution Revenues
- Other Income and Expenses

#### **OEB Appendix 2-F Other Operating Revenues** 1

- A detailed breakdown of Other Operating Revenue by USoA account is shown in Table 3.52 2
- below (derived from the Board's Filing Requirements Chapter 2 model Appendix 2-H) 3
- 4
- 5

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

		Δn	nendiv 2-	-								
	Other											
	Other	op	berating Re	eve	enue							
110-0#		204	2 Deced Anne	201	42 A	2042 Astus 12	<b>A</b> -	••••• V••••	D.:	daa Vaad	Т	-+ V
050A #		20	2012	20	2012	2013 Actuar-	AC	2014	DI	2015	Te	2016
	Reporting Basis		CGAAP		CGAAP	CGAAP				MIERS		MIERS
/235	Specific Service Charges	-5	57.0/3	s	55 389	-\$ 52.799	S	52 388	s	58 115	s	60.474
4200	Late Payment Charges	Ś	26 047	s	28 204	-\$ 26.086	s	26 748	s	27 012	s	27 012
4082	Retail Services Revenues	Ś	8 679	Ś	6 867	-\$ 6317	s	5 960	Ś	5 943	Ś	5 948
4084	4084-Service Transaction Requests (STR) Revenues	Ś	199	ŝ	113	-\$ 49	ŝ	72	ŝ	5,545	ŝ	49
4086	4086-SSS Administration Revenue	ŝ	13 792	ŝ	13 722	-\$ 13.822	ŝ	13 923	ŝ	14 017	ŝ	14 113
4205	4205-Interdepartmental Rents	ŝ		ŝ	10,722	\$ -	ŝ	10,020	ŝ	14,017	Š	
4210	4210-Rent from Electric Property	ŝ	27 267	-S	28 341	-\$ 28.685	-S	28 208	-S	27 870	-s	27 826
4245	4245-Government Assistance Directly Credited to Income	ŝ		ŝ	- 20,041	\$ -	ŝ		ŝ	12 865	ŝ	14 165
4325	4325-Revenues from Merchandise Jobbing. Etc.	ŝ	26 527	-s	31 749	-\$ 50	Š	-	ŝ		ŝ	
4330	4330-Costs and Expenses of Merchandising Jobbing, Etc.	Š	21,928	ŝ	19 730	-\$ 185	Š	-	ŝ	-	Š	-
4355	4355-Gain on Disposition of Utility and Other Property	ŝ		-S	123	-\$ 5,000	-S	17 500	-\$	2 500	-s	2 000
4360	4360-Loss on Disposition of Utility and Other Property	Š	-	ŝ	5 076	\$ 21,426	ŝ	17 006	ŝ	12,000	ŝ	12,500
4375	4375-Revenues from Non-Utility Operations	-s	141 661	-S	22 691	-\$ 40,716	-S	133 253	-\$	135 000	ŝ	140 000
4380	4380-Expenses of Non-Utility Operations	ŝ	139 262	Š	34 732	\$ 42,658	Š	128 838	ŝ	130 000	Š	134 000
4390	4390-Miscellaneous Non-Operating Income	-\$	150	-\$	7 459	-\$ 135	-\$	1.512	-\$	1 500	-s	1,500
4405	4405-Interest and Dividend Income	-\$	9,818	-S	21.481	-\$ 18.325	-S	21.037	-\$	5,000	ŝ	4.000
		-		Ť	,	•	Ť		-	-,	•	.,
Specific	Service Charges	-\$	57 043	-\$	55 389	-\$ 52 799	-\$	52 388	- <b>S</b>	58 115	-\$	60 474
Late Pay	ment Charges	-\$	26.047	-\$	28,204	-\$ 26,086	-\$	26,748	-\$	27.012	-\$	27.012
Other Or	perating Revenues	-\$	49 937	-\$	49 043	-\$ 48 873	-\$	48 162	-\$	60 751	-s	62 102
Other In	come or Deductions	-\$	16,965	-S	23,963	-\$ 326	-s	27,459	-\$	2,000	ŝ	1.000
Total		Š	140.002	C C	450,000	¢ 100.004	C C	154 757	Ś	147 878	č	160 600
Total [-\$ 149,992 [-\$					156 599	I-a IZO UO4		1.14 / 1/				1.10 .100
Total		-ψ	145,552	-0	156,599	-\$ 120,004	-0	154,757	-ψ	141,010	-0	150,500
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Accounts Reportin 4082-Ret 4084-Ser 4086-SSS	s 4082, 4084, 4086, 4210 4245 Revenue g Basis ail Service Revenues vice Transaction Requests (STR) Revenues S Administration Revenue	201 -\$ -\$ -\$	145,552 12 Board Appr. 2012 CGAAP 8,679 199 13,792	-5 20' -5 -5 -5	12 Actual 2012 CGAAP 6,867 113 13,722	2013 Actual <sup>2</sup> 2013 CGAAP -\$ 6,317 -\$ 49 -\$ 13,822	-5 Ac -5 -5 -5	tual Year <sup>2</sup> 2014 CGAAP 5,960 72 13,923	Bri -\$ -\$	dge Year <sup>2</sup> 2015 MIFRS 5,943 55 14,017	-9 Te -\$ -\$ -\$	est Year 2016 MIFRS 5,948 49 14,113
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Reportin           4082-Ret.           4086-SS2           4210-Rer           4245-Gov           Total (Ot           Account           4360-Los           4365-Gai           Total           Account           Account           Account           Account           Account           Account           Account	g Basis ail Service Revenues vice Transaction Requests (STR) Revenues S Administration Revenue t from Electrical Property 't and Other Assistance Directly Credited to Income ther Distribution/Operating Revenues) 4360,4365 Gains and Losses g Basis s on Disposition of Assets ns from Disposition of Assets 14405 - Interest and Dividend Income	201 -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$	145,332 12 Board Appr. 2012 CGAAP 8,679 199 13,792 27,267 - 49,937 12 Board Appr. 2012 CGAAP - - - 12 Board Appr. 2012	-3 20 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	12 Actual 2012 CGAAP 6,867 113 13,722 28,341 28,341 49,043 12 Actual 2012 CGAAP 123 5,076 4,953 12 Actual 2012	2013 Actual <sup>2</sup> 2013 CGAAP -\$ 6,317 -\$ 49 -\$ 13,822 -\$ 28,685 \$ - -\$ 48,873 2013 Actual <sup>2</sup> 2013 CGAAP -\$ 5,000 \$ 21,426 \$ 16,426 2013 Actual <sup>2</sup> 2013 Actual <sup>2</sup>	-3 -5 -5 -5 -5 -5 -5 -5 -5	tual Year <sup>2</sup> 2014 CGAAP 5,960 72 13,923 28,208 - 48,162 - 48,162 - 48,162 - 2014 CGAAP 17,500 17,006 494 - 17,500	Brit	dge Year <sup>2</sup> 2015 MIFRS 5,943 55 14,017 27,870 12,865 60,751 dge Year <sup>4</sup> 2015 MIFRS 2,500 12,000 9,500 dge Year <sup>2</sup> 2015	-> Te -> -> -> -> -> -> -> -> -> -> -> -> ->	est Year 2016 WIFRS 5,948 49 14,113 27,826 14,165 62,102 2016 WIFRS 2,000 12,500 10,500
Reportin           4082-Ret           4086-SEr           4086-SEr           4210-Ret           4245-Gov           Total (Ot           Account           4360-Los           4365-Gai           Total           Account           Reportin           4365-Gai           Account           Reportin	s 4082, 4084, 4086, 4210 4245 Revenue g Basis ail Service Revenues vice Transaction Requests (STR) Revenues S Administration Revenue t from Electrical Property 't and Other Assistance Directly Credited to Income ther Distribution/Operating Revenues) 4360,4365 Gains and Losses g Basis s on Disposition of Assets ns from Disposition of Assets 4405 - Interest and Dividend Income g Basis	201 -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$	12 Board Appr. 2012 CGAAP 8,679 13,792 27,267 - 49,937 12 Board Appr. 2012 CGAAP - - 2012 CGAAP - - - 2012 CGAAP	-3 20 -5 -5 -5 -5 -5 20 -5 5 5	12 Actual 2012 CGAAP 6,867 113 13,722 28,341 - 49,043 12 Actual 2012 CGAAP 123 5,076 4,953 12 Actual 2012 CGAAP	2013 Actual <sup>2</sup> 2013 CGAAP -\$ 6,317 -\$ 49 5 13,822 -\$ 28,685 \$ - -\$ 48,873 2013 Actual <sup>2</sup> 2013 CGAAP -\$ 5,000 \$ 21,426 \$ 16,426 2013 Actual <sup>2</sup> 2013 Actual <sup>2</sup>	-3 -3 -5 -5 -5 Ac	tual Year <sup>2</sup> 2014 CGAAP 5,960 72 13,923 28,208 - 48,162 2014 CGAAP 17,500 17,006 494 tual Year <sup>2</sup> 2014 CGAAP	Brit	dge Year <sup>2</sup> 2015 MIFRS 5,943 55 14,017 27,870 12,865 60,751 2015 MIFRS 2,500 12,000 9,500 dge Year <sup>2</sup> 2015 MIFRS 2015 MIFRS	-> Te \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	est Year 2016 WIFRS 5,948 49 14,113 27,826 14,165 62,102 2016 WIFRS 2,000 12,500 10,500 est Year 2016 MIFRS
Reportin           4082-Ret.           4082-Ret.           4084-Ser           4210-Ret.           4365-Gai           Total           Account           Reportin           Short-terr	s 4082, 4084, 4086, 4210 4245 Revenue  g Basis all Service Revenues vice Transaction Requests (STR) Revenues S Administration Revenue t from Electrical Property 't and Other Assistance Directly Credited to Income ther Distribution/Operating Revenues)  4360,4365 Gains and Losses  g Basis s on Disposition of Assets ns from Disposition of Assets 4405 - Interest and Dividend Income  g Basis n Investment Interest	201 -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$	12 Board Appr. 2012 CGAAP 8,679 199 13,792 27,267 - 49,937 12 Board Appr. 2012 CGAAP - - - 2012 CGAAP - - - -	-3 20 -5 -5 -5 -5 -5 -5 -5 20 -5 5 -5	12 Actual 2012 CGAAP 6,867 113 13,722 28,341 - 49,043 12 Actual 2012 CGAAP 123 5,076 4,953 12 Actual 2012 CGAAP 2012 CGAAP	2013 Actual <sup>2</sup> 2013 CGAAP -\$ 6,317 -\$ 49 -\$ 13,822 -\$ 28,685 \$ - -\$ 48,873 2013 Actual <sup>2</sup> 2013 Actual <sup>2</sup> 2014 Actual <sup>2</sup> 2015 Actual <sup>2</sup> 2015 Actual <sup>2</sup> 2015 Actual <sup>2</sup> 2015 A	-3 -3 -5 -5 -5 -5 -5 -5 -5 -5	tual Year <sup>2</sup> 2014 CGAAP 5,960 72 13,923 28,208 28,208 - 48,162 2014 CGAAP 17,500 17,006 494 tual Year <sup>2</sup> 2014 CGAAP 2014 CGAAP	Bri	dge Year <sup>2</sup> 2015 MIFRS 5,943 55 14,017 27,870 12,865 60,751 2015 MIFRS 2,500 12,000 9,500 dge Year <sup>2</sup> 2015 MIFRS 2015 MIFRS 2015 MIFRS 2015	-> Te -> -> -> -> -> -> -> -> -> -> -> -> ->	est Year 2016 WIFRS 5,948 49 14,113 27,826 14,165 62,102 est Year 2016 WIFRS 2,000 10,500 est Year 2016 WIFRS 2016
Accounts Reportin 4082-Ret 4084-Ser 4084-Ser 4084-Ser 4245-Gov Total (Ot Account Reportin 4360-Los 4365-Gai Total Account Reportin Short-terr Bank Der	g Basis ail Service Revenues yice Transaction Requests (STR) Revenues Administration Revenue t from Electrical Property 't and Other Assistance Directly Credited to Income ther Distribution/Operating Revenues) 4360,4365 Gains and Losses g Basis s on Disposition of Assets ns from Disposition of Assets 4405 - Interest and Dividend Income g Basis m Investment Interest posit Interest	20 -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$	145,352 12 Board Appr. 2012 CGAAP 8,679 199 13,792 27,267 - 49,937 12 Board Appr. 2012 CGAAP - - 12 Board Appr. 2012 CGAAP - - - - - - - - - - - - -	-3 20 -5 -5 -5 -5 20 -5 5 20 -5 -5	12 Actual 2012 CGAAP 6,867 113 13,722 28,341 - 49,043 12 Actual 2012 CGAAP 123 5,076 4,953 12 Actual 2012 CGAAP 123 5,076 4,953	2013 Actual <sup>2</sup> 2013 CGAAP -\$ 6,317 -\$ 49 -\$ 13,822 -\$ 28,685 \$ - -\$ 48,873 2013 Actual <sup>2</sup> 2013 CGAAP -\$ 5,000 \$ 21,426 \$ 16,426 2013 Actual <sup>2</sup> 2013 Actual <sup>2</sup> 2014 Actual <sup>2</sup> 2015 Actual <sup>2</sup> 2015 Actual <sup>2</sup> 2017 Actual <sup>2</sup> 2017 Actual <sup>2</sup> 2017 Actual <sup>2</sup> 2017 Actual <sup>2</sup> 2017 Actual <sup>2</sup> 2018 Actual <sup>2</sup> 2018 Actual <sup>2</sup> 2018 Actual <sup>2</sup> 2018 Actual <sup>2</sup> 2019 Actual <sup>2</sup>	-3 -3 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	tual Year <sup>2</sup> 2014 CGAAP 5,960 72 13,923 28,208 - 48,162 tual Year <sup>2</sup> 2014 CGAAP 17,500 17,006 494 tual Year <sup>2</sup> 2014 CGAAP 2014 CGAAP 17,500 17,006 494	Bri 	dge Year <sup>a</sup> 2015 MIFRS 5,943 55 14,017 27,870 12,865 60,751 2,865 60,751 dge Year <sup>a</sup> 2015 MIFRS 2,500 12,000 9,500 dge Year <sup>a</sup> 2015 MIFRS 2,500 12,000 9,500	-> Te -> -> -> -> -> -> -> -> -> -> -> -> ->	est Year 2016 MIFRS 5,948 49 14,113 27,826 14,165 62,102 est Year 2016 MIFRS 2,000 12,500 10,500 est Year 2016 MIFRS 270 2,500
Accounts Reportin 4082-Ret 4084-Ser 4086-SSS 4210-Ren 4245-Gov Total (Ot Account Acc	g Basis g Basis g Basis additional and the provided and t	20 <sup>-</sup> -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$ -\$	145,352 12 Board Appr. 2012 CGAAP 8,679 199 13,792 27,267 - 49,937 12 Board Appr. 2012 CGAAP - - 12 Board Appr. 2012 CGAAP - - - - - - - - - - - - -	-3 20 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	12 Actual 2012 CGAAP 6,867 113 13,722 28,341 - 49,043 12 Actual 2012 CGAAP 123 5,076 4,953 12 Actual 2012 CGAAP 123 5,076 4,953 12 Actual 2012 CGAAP 6,868 4,953	2013 Actual <sup>2</sup> 2013 CGAAP -\$ 6,317 5 49 -\$ 13,822 -\$ 28,685 \$ - -\$ 48,873 2013 Actual <sup>2</sup> 2013 Actual <sup>2</sup> 2013 CGAAP -\$ 5,000 \$ 21,426 \$ 16,426 2013 Actual <sup>2</sup> 2013 Actual <sup>2</sup> 2013 Actual <sup>2</sup> 2013 Actual <sup>2</sup> 2013 Actual <sup>2</sup> 5, 3,59 -\$ 3,59 -\$ 9,210 -\$ 8,756	-3 -3 -3 -3 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	tual Year <sup>2</sup> 2014 CGAAP 5,960 72 13,923 28,208 - 48,162 tual Year <sup>2</sup> 2014 CGAAP 17,500 17,006 494 tual Year <sup>2</sup> 2014 CGAAP 17,500 17,006 494	Bri. 	dge Year <sup>a</sup> 2015 MIFRS 5,943 55 14,017 27,870 12,865 60,751 2,865 60,751 dge Year <sup>a</sup> 2015 MIFRS 2,500 12,000 9,500 dge Year <sup>a</sup> 2015 MIFRS 2,500 12,000 9,500		est Year 2016 MIFRS 5,948 49 14,113 27,826 14,165 62,102 est Year 2016 MIFRS 2,000 12,500 10,500 est Year 2016 MIFRS 2,000 10,500 2,500 1,230

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

2 3

1

Appendix 2-H												
Other	Ор	erating Re	eve	enue								
Account 4390 - Misc Non-operating Income												
	201	2 Board Appr.	20	12 Actual	201	3 Actual <sup>2</sup>	Ac	tual Year <sup>2</sup>	Br	idge Year <sup>2</sup>	Te	est 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 1275 New Date Desculated Devenue												
2012 Board Appr. [2012 Actual [2013 Actual <sup>2</sup> [Actual Year <sup>2</sup> ] Bridge Year <sup>2</sup> ] 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							_					
	201	2 Board Appr.	20'	12 Actual	201	3 Actual <sup>2</sup>	Ac	tual Year <sup>2</sup>	Br	idge Year <sup>2</sup>	Te	est 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
A												
Account 4325,4330 Revenue & Expenses	204		204	12 4 - 4 1	204	2 A - 4 12		4	D-		т.	-
	201	2 Board Appr.	20	12 Actual	201	3 Actual*	AC	tual Year	BL	idge Year	16	est Year
Denertine Desis	┢──	2012		2012		2013		2014		2010		2016
Reporting Dasis	C	CGAAP	-	24 740		JGAAP		CGAAP	C.	MIEKS	-	MIFKS
4325-Revenues from Merchandice Jobbing Etc.	-0 C	26,527	-3 c	31,749	-0 C	105	3 C	-	ф с	-	3 C	-
4550-Expenses of Merchandice Jobbling Etc.	ð e	21,928	4	19,730	-0	165	3	-	3	-	3	-
10131		/ FOO	14	and (1910)	1 54	- 1 4 6	<b>N</b>	-	1.5	-	<b>N</b> .	

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

- 2 Tables 3.53 to 3.57 below presents year over year variances of other operating revenues:
- 3
- 4
- 5

# 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%

6

7 Between 2012 Board Approved and 2012 Actual, Account 4082 and 4084 show a decrease of

8 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 3 being allocated to 4380, some were assigned directly to the 4375 income accounts. This left the 4 balances in these accounts very low. The correct values are recorded in the detailed 5 breakdown of the 4375 and 4380 accounts in table 3.48 and the difference between income and 6 expenses is equal.

7 The 4390 account is the income from scrap sales, which saw a very large increase in 2012.

- 8 Interest revenue from account 4405 was also high due to bank and regulatory account balances.
- 9

	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	44.000/
4405	4405-Interest and Dividend Income	-\$21,481	-\$18,325	\$3,156	14.69%
	Total	- <mark>\$1</mark> 56,599	-\$128,084	\$28,514	18.21%
	Caralle Cardin Channel	¢55,290	¢£0,700	¢0.00	4 600/
	ate Development Charges	-900,009	-202,199	⊋∠,590 ¢2,440	4.00%
	Cale Fayment Charges	-\$20,204	-920,000 ¢40,070	⊋∠,110 €470	1.01%
	Other Income or Deductions	-949,043	-040,0/3	0/10 \$22,627	0.35%
		-923,903 \$156,500	-9320 ¢120.004	¢∠3,037 €28,544	30.04% 12.010/
	Total	-\$156,599	-\$128,084	\$28,514	18.21%

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

2

- 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 7 high values of 2012.
- Interest revenue from account 4405 dropped almost 15% due to the disposition of regulatory
   balances.
- 10

	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	- <b>\$1</b> 28,084	-\$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%

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

2

- 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.

	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	650 200	CE0 446	¢£ 700	10.029/
	Specific Service Charges	-052,300	-000,115	-95,726	10.93%
	Other Distribution/Operating Devenues	-\$20,740	-921,012	-9205 C10 500	0.99%
	Other Income or Deductions	-\$40,162		-012,569	20.14%
	Total	-721,459	-92,000 ¢147.070	¢∠0,459 ¢¢ 070	JZ.12%
	TOTAL	i -0104./5/1	-3147.070	30.0/9	4.45%

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

2

- 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
- 2 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
- 5 lower bank and regulatory balances as well as a lower interest rate.
- 6

#### Table 3.57: Variance Analysis of Other Operating Revenues

1 2

#### - 2015 Bridge Year to 2016 Test Year

	Reporting Basis	MIFRS	MIFRS	Var Analysis	Var Analysis
		2015	2016	\$	%
	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%
1005		\$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	\$U ©0	\$U	\$U	
4324	4324-Special Purpose Charge Recovery	\$U ©0	\$U ©0	\$U ©0	
4325	4320 Costs and Evenness of Merchandising Johning. Etc.		3U CO	<u>۵</u> 0	
4330	4330-Costs and Expenses of Merchandising Jobbing, Etc.	\$U ©0	\$U ©0	\$U ©0	
4335	4335-Profits and Losses from Financial Instrument Investments				
4340	4346 Gains from Disposition of Future Lise Utility Plant	00 00			
4345	4345-Gains from Disposition of Future Use Utility Plant	30 \$0		30 \$0	
4356	4355-Coin 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	4.1770
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%

3

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
- 5 regulatory balances as well as a lower interest rate.
- 6

Wellington North Power Inc. EB-2015-0110 Exhibit 3 – Revenues Filed: October 2015

# 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.
- 12

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

16

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.

20

21 With the exception of the MicroFIT monthly service charge described above, WNP proposes no 22 other changes to the current Specific Service Charges.

# Appendix

# 2 List of Appendices

3	Appendix 3A	Load Forecast – Predicted Purchases for 2005 to 2014
	Appendix 3B	Regression Scenarios Performed
4	Appendix 3C	IESO Final Results Report for Wellington North Power Inc.
5		(CDM) for 2011- 2014
6		
0		
7		

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# Appendix 3A – Load Forecast – Predicted 1 Purchases for 2005 to 2014 2

	Unadjusted Wholesale	Generation	Revised Wholesale	Heating Degree	Cooling Degree	Number of Days	Number of	Regional	Sensitive Customers	Predicted
	Purchases (kWh)	(MicroFIT and FIT) kWh	Purchases kWh	Day	Day	in Month	Peak Hours	Employment	(Purchased	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 Mar 05	8,356,417	0	8,356,417	691.00	0.00	28	320	631.30	1,993,852.22	8,4/3,261
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
Oct-05	8 151 171	0	8 151 171	273.60	9.40	31	320	649 70	2,443,235.02	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	613.60 328.40	0.00	31	368	640.80	1,992,557.34	8,934,443
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
Oct-06	8 459 920	0	8 459 920	351.80	0.00	31	336	666.20	2,221,030.20	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 Mor 07	8,867,908	0	8,867,908	793.80	0.00	28	320	654.80	2,252,054.43	9,055,609
Apr-07	8 276 828	0	8 276 828	424 30	0.00	30	352	645 10	2,510,371.78	8,205,519
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
Oct-07	8 336 948	0	8 336 948	189.20	15 20	31	352	659.20	2,380,020.35	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 Mar 08	9,282,696	0	9,282,696	736.00	0.00	29	320	651.20	2,386,869.04	9,096,313
Apr-08	8 210 709	0	8 210 709	299.10	1 40	30	352	642.30	2,419,561.25	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 Sep-08	7,810,492	0	7,810,492	32.23	28.40	31	320	658.80	2,204,584.23	7,644,411
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
Mar-09	8 189 544	0	8 189 544	597.00	0.00	31	362	627.60	1,270,027.50	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
Sep-09	7,501,540	0	7,501,540	110 20	7 50	30	336	643.30	2 152 613 22	7,515,726
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 Feb-10	9,555,507	0	9,555,507	791.50	0.00	31 28	320	633.60	2,212,166.71	9,274,848
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 Aug. 10	8,350,976	0	8,350,976	12.70	89.70	31	336	669.80	2,325,624.35	8,326,248
Sep-10	8 099 924	0	8 099 924	137.00	15.50	30	336	665 10	2,320,307.00	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 Feb-11	9,903,507	1 664	9,903,572	866.50 720.40	0.00	31 28	336	649.30	2,435,983.55	9,788,804
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 Aug. 11	8,282,741	22,629	8,305,370	3.70	104.30	31	320	691.50	2,118,772.13	8,345,219
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

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	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

Wellington North Power Inc. EB-2015-0110 Exhibit 3 – Revenues Filed: October 2015

# Appendix 3B – Regression Scenarios Performed

Scenario 1													
-	SUMMARY OUTPUT									Year	kWh Purchased	Adjusted	Purch. VS Adj.
										2005	99 177 534 70	104 297 613 24	5 16%
	Peoression Statistics									2006	99 726 774 81	102 748 409 18	3.03%
	Multiple D	66.009/								2000	101 005 100 20	102,740,403.10	1 649/
	Nulliple K	44.000/								2007	101,505,155.50	103,374,002.10	0.000/
	K Square	44.00%								2000	100,510,200.57	103,320,073.12	2.00%
	Adjusted R Square	43.94%								2009	93,415,301.52	103,017,105.55	10.20%
	Observations	505550.1071								2010	102,000,204.03	103,275,211.02	0.05%
	Observations	120								2011	105,025,090.07	103,454,994.20	2.00%
										2012	108,411,816.52	102,686,645.56	5.28%
	ANOVA									2013	110,314,059.50	103,712,927.02	5.98%
		df	SS	MS	F	Significance F				2014	112,475,947.06	104,074,435.74	7.47%
	Regression	2	3.08787E+13	1.54394E+13	47.63125815	7.35842E-16				Mean Av	erage Percentage Error (Mape) :		4.44%
	Residual	117	3.79248E+13	3.24144E+11						Median			4.10%
	Total	119	6.88035E+13										
		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%	Year	kWh Forecasted Purchases	year over year	
	Intercent	7682986.85	136291 5661	56.37	1 17694E-86	7413068 543	7952905 152	7413068 543	7952905 152	2015	126 838 075 87	12 77%	
	Heating Degree Day	2251.07	256 7685728	8 77	1 71151E-14	1742 553293	2759 586699	1742 553293	2759 586699	2016	128 629 728 10	1.41%	
	Cooling Degree Day	7948.68	2764 310932	2.88	0.00479457	2474 105755	13423 25165	2474 105755	13423 25165	2010	120,020,120.10	1.4170	
	Cooling Degree Day	7340.00	2104.310332	2.00	0.00413431	2414.103133	13423.23103	2414.103133	13423.23103				
										N.			
Scenario 2	SUMMARY OUTPUT									Year	kWh Purchased	Adjusted	Purch. VS Adj.
										2005	99,177,534.70	104,195,103.23	5.06%
	Regression Statistics									2006	99,726,774.81	102,683,346.96	2.96%
	Multiple R	70.64%								2007	101,905,199.30	103,517,355.66	1.58%
	R Square	49.90%								2008	100,510,260.57	103,547,524.42	3.02%
	Adjusted R Square	48.61%								2009	93,415,381.52	103,064,867.02	10.33%
	Standard Error	545113.1196								2010	102,608,264.83	103,183,286.52	0.56%
	Observations	120								2011	105,625,698.07	103,393,066.98	2.11%
										2012	108,411 816 52	102,777,024 32	5.20%
	ANOVA									2012	110 314 059 50	103.687 320 58	6.01%
	110111	df	22	MS	F	Significance E				2013	112 475 947 06	104 122 041 19	7.43%
	Pegranaian	u/ 2	2 42242E+12	1 14440E+12	20 51527000	2 20474E 17				Lloop Av	arage Bereentage Error (Mane)	104,122,041.15	4 4 29/
	Desidual	116	2.44600E+13	2.07149E+11	30.51557005	2.334746*17				Median	erage Fercentage Litor (mape) .		4.4376
	Tesidual	110	5.44032ET13	2.57 1400 + 11						Median			4.04%
	lotal	119	6.88035E+13										
		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%	Year	kWh Forecasted Purchases	year over year	
	Intercept	1239324.00	1894048.397	0.65	0.514197379	-2512077.507	4990725.504	-2512077.507	4990725.504	2015	103,374,870.99	-8.09%	
	Heating Degree Day	2334.19	247.0493374	9.45	4.66287E-16	1844.874561	2823.499244	1844.874561	2823.499244	2016	103,585,984.50	0.20%	
	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				
Scenario 3	SUMMARY OUTPUT									Year	kWh Purchased	Adjusted	Purch, VS Adi,
										2005	99 177 534 70	104 278 683 04	5 1/1%
	Desmasion Statistics									2005	00 726 774 94	109,270,003.04	2.039/
	Regression statistics	71 100/								2000	101.005.100.20	102,730,321.10	3.02.70
	Nulliple K	71.10%								2007	101,305,133.30	103,047,305.03	1.7170
	R Square	0.00%								2000	100,510,260.57	103,509,061.14	2.30%
	Adjusted R Square	48.95%								2009	91415 181 57	103.056.266.53	10.32%
	Standard Error	C ( D D D ) ( 1 ( D )								2040	400,000,004,00	100.045.700.04	0.000/
		543294.1424								2010	102,608,264.83	103,245,726.04	0.62%
	Observations	543294.1424 120								2010 2011	102,608,264.83 105,625,698.07	103,245,726.04 103,585,625.72	0.62% 1.93%
	Observations	543294.1424 120								2010 2011 2012	102,608,264.83 105,625,698.07 108,411,816.52	103,245,726.04 103,585,625.72 102,601,234.41	0.62% 1.93% 5.36%
	Observations ANOVA	543294.1424 120								2010 2011 2012 2013	102,608,264.83 105,625,698.07 108,411,816.52 110,314,059.50	103,245,726.04 103,585,625.72 102,601,234.41 103,439,117.58	0.62% 1.93% 5.36% 6.23%
	Observations ANOVA	543294.1424 120 df	SS	MS	F	Significance F				2010 2011 2012 2013 2014	102,608,264.83 105,625,698.07 108,411,816.52 110,314,059.50 112,475,947.06	103,245,726.04 103,585,625.72 102,601,234.41 103,439,117.58 104,070,295.65	0.62% 1.93% 5.36% 6.23% 7.47%
	Observations ANOVA Regression	543294.1424 120 df 4	SS 3.48592E+13	MS 8.71479E+12	F 29.52479129	Significance F 6.84804E-17				2010 2011 2012 2013 2014 Mean Ave	102,608,264.83 105,625,698.07 108,411,816.52 110,314,059.50 112,475,947.06 erage Percentage Error (Mape) :	103,245,726.04 103,585,625.72 102,601,234.41 103,439,117.58 104,070,295.65	0.62% 1.93% 5.36% 6.23% 7.47% 4.48%
	ANOVA Regression Residual	543294.1424 120 df 4 115	SS 3.48592E+13 3.39444E+13	MS 8.71479E+12 2.95169E+11	F 29.52479129	Significance F 6.84804E-17				2010 2011 2012 2013 2014 Mean Ave Median	102.608.264.83 105.625.638.07 108.411.816.52 110.314.059.50 112.475.947.06 erage Percentage Error (Mape) :	103,245,726.04 103,585,625.72 102,601,234.41 103,439,117.58 104,070,295.65	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	ANOVA Regression Residual Total	543294.1424 120 df 4 115 119	SS 3.48592E+13 3.39444E+13 6.88035E+13	MS 8.71479E+12 2.95169E+11	F 29.52479129	Significance F 6.84804E-17				2010 2011 2012 2013 2014 Mean Ave Median	102.608.264.83 105.625.598.07 108.411.816.52 110.314.059.50 112.475.947.06 erage Percentage Error (Mape) :	103,245,726.04 103,585,625.72 102,601,234.41 103,439,117.58 104,070,295.65	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	Observations ANOVA Regression Residual Total	543294.1424 120 df 4 115 119	SS 3.48592E+13 3.39444E+13 6.88035E+13	MS 8.71479E+12 2.95169E+11	F 29.52479129	Significance F 6.84804E-17				2010 2011 2012 2013 2014 Mean Avi Median	102,608,264,83 105,625,698,07 108,411,816,52 110,314,059,50 112,475,947,06 erage Percentage Error (Mape) :	103,245,726.04 103,585,625.72 102,601,234.41 103,439,117.58 104,070,295.65	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	Observations ANOVA Regression Residual Total	543294.1424 120 df 4 115 119 Coefficients	SS 3.46592E+13 3.39444E+13 6.88035E+13 Standard Error	MS 8.71479E+12 2.95169E+11 t Stat	F 29.52479129 P-value	Significance F 6.84804E-17 Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%	2010 2011 2012 2013 2014 Mean Av Median	102.608.264.83 105.625.698.07 108.411.816.52 110.314.059.37.06 erage Percentage Error (Mape) : KWh Forecasted Purchases	103,245,726.04 103,585,625.72 102,601,234.41 103,439,117.58 104,070,295.65	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	Observations ANOVA Regression Residual Total	543294.1424 120 df 4 115 119 Coefficients 1010415.35	SS 3.48592E+13 3.39444E+13 6.88035E+13 Standard Error 1895517.804	MS 8.71479E+12 2.95169E+11 t Stat 0.53	F 29.52479129 P-value 0.595024101	Significance F 6.84804E-17 Lower 95% -2744240.607	Upper 95% 4765071.313	Lower 95.0% -2744240.607	Upper 95.0% 4765071.313	2010 2011 2012 2013 2014 Mean Avv Median Year 2015	102.608.254.33 105.625.658 07 108.411.816.52 110.314.055.60 erage Percentage Error (Mape) : W/h Forecasted Purchases 103.382.192.52	103,245,726.04 103,585,625,72 102,601,234.41 103,439,117.58 104,070,295.65 year over year -8.09%	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	Observations ANOVA Regression Residual Total Intercept Heating Degree Day	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2376.21	SS 3.48592E+13 3.3944E+13 6.88035E+13 Standard Error 1895517.804 248.2331631	<u>MS</u> 8.71479E+12 2.95169E+11 <u>t Stat</u> 0.53 9.57	F 29.52479129 P-value 0.595024101 2.56398E-16	Significance F 6.84804E-17 Lower 95% -2744240.607 1884.503229	Upper 95% 4765071.313 2867.907472	Lower 95.0% -2744240.607 1884.503229	Upper 95.0% 4765071.313 2867.907472	2010 2011 2012 2013 2014 Mean Ave Median Year 2015 2015 2016	102.088.254.83 105.625.698.07 108.411.816.52 110.314.059.50 112.475.947.00 erage Percentage Error (Mape) : kWh Forecasted Purchases 103.382,192.52 103.365.688.37	103,245,726.04 103,585,625,72 102,601,234.41 103,439,117.58 104,070,295.65 year over year -8.09% 0.17%	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	Observations ANOVA Regression Regression Resolutal Total Intercept Heating Degree Day Cooling Degree Day	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2376.21 7397.07	SS 3.46592E+13 3.39444E+13 6.88035E+13 Standard Error 1895517.804 248.2331631 2649.12642	MS 8.71479E+12 2.95169E+11 <i>t Stat</i> 0.53 9.57 2.79	F 29.52479129 0.595024101 2.56398E-16 0.006131398	Significance F 6.84804E-17 Lower 95% -2744240.607 1884.503229 2149.658371	Upper 95% 4765071.313 2867.907472 12644.47755	Lower 95.0% -2744240.607 1884.503229 2149.65831	Upper 95.0% 4765071.313 2867.907472 12644.47755	2010 2011 2012 2013 2014 Mean Avr Median Year 2015 2016	102,602,224,83 105,625,690,07 109,411,816,52 110,314,059,50 110,214,059,50 110,214,059,87 erage Percentage Error (Mape) : Wh Forecasted Purchases 103,362,192,52 103,566,680,37	103,245,726,04 103,585,625,72 102,601,234,41 103,439,117,58 104,070,295,65 <b>year over year</b> -8.09% 0.17%	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	Obsentations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Days in Month	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2376.21 7397.07 174505.85	SS 3.48592E+13 3.39444E+13 6.88035E+13 Standard Error 1896517.804 248.2331631 2649.12642 67532.72687	MS 8.71479E+12 2.95169E+11 t Stat 0.53 9.57 2.79 2.58	F 29.52479129 0.595024101 2.56398E-16 0.006131398 0.011017608	Significance F 6.84804E-17 Lower 95% -2744240.607 1884.503229 2149.658371 40736.51612	Upper 95% 4765071.313 2867.907472 12644.47755 308275.1854	Lower 95.0% -2744240.607 1884.503229 2149.658371 40736.51612	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016	102,002,254,83 105,625,680,07 108,411,816,52 110,314,059,50 112,247,547,06 errage Percentage Error (Mape) ; Whr Forecasted Purchases 103,362,192,52 103,566,698,37	103,245,726,04 103,685,625,72 102,601,234,41 103,439,117,58 104,070,295,65 year over year -8.09% 0.17%	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	Observations ANOVA Regression Regression Resolut Total Intercept Heating Degree Day Cooling Degree Day Number of Days in Month Number of Days in Month Number of Days	543294.1424 120 df 4 115 119 Coefficients 2376.21 7397.07 174505.85 3974.16	SS 3.48592E+13 3.39444E+13 6.88035E+13 Standard Error 1896517.804 248.2331631 2649.12642 67532.72687 2980.394918	MS 8.71479E+12 2.95169E+11 <i>t Stat</i> 0.53 9.57 2.79 2.58 1.33	F 29.52479129 P-value 0.595024101 2.56398E-16 0.006131398 0.011017608 0.185024397	Significance F 6.84804E-17 2744240.607 1884.50329 2149.658371 40736.51612 -1929.476378	Upper 95% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	Lower 95.0% -2744240.607 1884.503229 2149.658371 4929.476378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016	102,608,224,83 105,625,690,07 109,211,816,52 110,314,659,50 110,314,659,50 110,314,659,50 erage Percentage Error (Mape) : W/h Forecasted Purchases 103,556,698,37	103,245,726.04 103,885,625.72 102,601,23.41 103,439,117.58 104,070,295.65 104,070,295.65 year over year -8.09% 0.17%	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	Obsentations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Day Number of Day Number of Desk Hours	543294.1424 120 df 4 115 119 Coefficients 10104.15.35 2376.21 7397.07 174505.85 33974.16	SS 3.48692E+13 3.39444E+13 6.88035E+13 Standard Error 1895517.804 248.2331631 2649.12642 67532.72687 2980.394918	MS 8.71479E+12 2.95169E+11 t Stat 0.53 9.57 2.79 2.58 1.33	F 29.52479129 0.595024101 2.56398E-16 0.006131398 0.011017608 0.185024397	Significance F 6.84804E-17 Lower 95% -2744240.607 1884.503229 2149.658371 40736.51612 -1929.426378	Upper 95% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	Lower 95.0% -2744240.607 1884.503229 2149.658371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.907472 306275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016	102,002,254,83 105,625,698,07 108,411,816,52 110,314,059,50 112,247,5947,06 errage Percentage Error (Mape) : Wh Forecasted Purchases 103,392,192,52 103,556,698,37	103.246.726.04 103.686,262.72 102,601,234.41 103,439,117.58 104,070,295.65 <u>year over year</u> -8.09% 0.17%	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
	Observations ANOVA Regression Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Days in Month Number of Peak Hours	543294.1424 120 df 4 115 119 Coefficients 101415.35 2376.21 7397.07 174505.85 3974.16	SS 3.48592E+13 3.39444E+13 6.80035E+13 Standard Error 1895517.804 248.2331631 2649.12642 67532.72687 2980.394918	<u>MS</u> 8.71479E+12 2.95169E+11 <u>t Stat</u> 0.53 9.57 2.79 2.58 1.33	F 29.52479129 0.595024101 2.56398E-16 0.006131398 0.01101788 0.01101788 0.185024397	Significance F 6.84804E-17 2744240.607 1884.503229 2149.658371 40736.51612 -1929.426378	Upper 95% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	Lower 95.0% -2744240.607 1884.503229 2149.658371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016	102,608,224,83 105,625,690,07 109,411,816,52 110,314,695,80 110,214,675,847,06 erage Percentage Error (Mape) : W/h Forecasted Purchases 103,556,698,37	103,245,726,04 103,585,625,72 102,601,234,41 103,439,117,58 104,070,295,65 <u>year over year</u> -8,09% 0.17%	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
Sanada 4	Obsentations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Day in Month Number of Day StillAMARDY OUTDUTT	543294.1424 120 df 119 Coefficients 1010415.35 2376.21 7397.07 174505.85 3974.16	SS 3.48592E+13 3.3944Æ+13 6.88035E+13 Standard Error 1895517.804 248.2331631 2649.12642 67532.72687 2980.394918	MS 8.71479E+12 2.95169E+11 <i>t Stat</i> 0.53 9.57 2.79 2.58 1.33	F 29.52479129 0.595024101 2.56398E-16 0.00613136 0.001017608 0.185024397	Significance F 6.84804E-17 Lower 95% -2744240.607 1884.503229 2149.658371 40736.51612 -1929.426378	Upper 95% 4765071.313 2867.9074 2867.9074 2867.9075 308275.1854 9877.751082	Lower 95.0% -2744240.607 1884.503229 2149.658371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016	102 009 254 83 105 625 698 07 108 411 816 52 110 314 059 50 112 475 947 06 errage Percentage Error (Mape) : W/h Forecasted Purchasen 103 982 192 52 103 556 698 37	103,246,726,04 103,686,625,72 102,601,234,41 103,439,117,58 104,070,295,65 <b>year over year</b> -8,09% 0.17%	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08%
Scenario 4	Observations ANOVA Regression Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Days in Month Number of Peak Hours SUMMARY OUTPUT	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2376.21 7397.07 174505.85 3974.16	SS 3.48592E+13 3.39444E+13 6.88035E+13 Standard Error 1895517.804 248.2331631 2649.12642 67532.72687 2980.394918	<u>MS</u> 8.71479E+12 2.95169E+11 <u>t Stat</u> 0.53 9.57 2.79 2.58 1.33	F 29.52479129 0.595024101 2.56398E-16 0.006131398 0.011017608 0.1185024397	Significance F 6.84804E-17 -2744240.607 1884.503229 2149.65831 40736.51612 -1929.426378	Upper 95% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	Lower 95.0% -2744240.607 1884.503229 2149.658371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016	102,608,224,83 105,625,690,07 109,411,816,52 110,314,659,50 110,314,659,50 110,314,659,50 erage Percentage Error (Mape) : W/h Forecasted Purchases 103,556,698,37	103,245,756,04 103,585,625,72 102,601,234,41 103,439,117,58 104,070,295,65 9 <u>year over year</u> -8,09% 0.17% 0.17%	0.62% 1.93% 5.36% 6.23% 6.23% 7.47% 4.48% 4.08%
Scenario 4	Obsentations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Day SUMMARY OUTPUT	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2376.21 7397.07 174505.85 3974.16	SS 3.48592E+13 3.39444E+13 6.88035E+13 Standard Error 1895517.804 248.2331631 2649.12642 67532.72687 2980.394918	MS 8.71479E+12 2.95169E+11 <i>t Stat</i> 0.53 9.57 2.79 2.58 1.33	F 29.52479129 0.595024101 2.56398E-16 0.006131398 0.011017608 0.185024397	Significance F 6.84804E-17 Lower 95% -2744240.607 1884.503229 2149.656371 40736.51612 -1929.426378	Upper 95% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	Lower 95.0% -2744240.607 1884.503229 2149.658371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 306275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016 Year 2005	102 009 254 83 105 625 698 07 108 411 816 52 110 314 059 50 112 475 947 06 erage Percentage Error (Mape) : W/h Forecasted Purchases 103 355 639 37 W/h Purchased 99,177,554 70	103,245,726,04 103,565,525,72 102,601,234,41 103,439,117,58 104,070,295,65 year over year -8,09% 0,117%	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08% 9.00%
Scenario 4	Observations ANOVA Repression Residual Total Intercept Heating Degree Day Cooling Degree Day Vember of Days in Month Number of Peak Hours SUMMARY OUTPUT Regression Statistics	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2376.21 7397.07 174505.85 3974.16	SS 3.48592E+13 3.39444E+13 6.88035E+13 5tandard Error 1895517.804 248.2331631 2649.12642 67552.72687 2980.394918	MS 8.71479E+12 2.95169E+11 <i>t Stat</i> 0.53 9.57 2.79 2.58 1.33	F 29.52479129 0.595024101 2.56398E-16 0.006131398 0.011017608 0.185024397	Significance F 6.84804E-17 2744240.607 1884-503229 2149.658311 40736-5131 -1929.426378	Upper 95% 4765071.313 2867.9074.2 2867.9075.1854 308275.1854 9877.751082	Lower 95.0% -2744240.650 1884.503279 2149.658371 40736.5163 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016 Year 2005 2006	102,602,224,83 105,625,690,07 109,411,816,52 110,314,695,80 110,214,675,817,06 erage Percentage Error (Mape) : W/h Forecasted Purchases 103,526,698,37 103,556,698,37 W/h Purchased 99,177,534,70 99,726,774,81	103245,726,04 10358656272 10260123441 103,439,117.58 104,070,295.65 <b>year over year</b> -8.09% 0.17% <b>Adjusted</b> 99,246,62642 99,560,779.16	0.62% 1.93% 5.36% 6.23% 6.23% 7.47% 4.48% 4.08% 9.08% 0.04%
Scenario 4	Obsenations Obsenations ANOVA Regression Residual Total Total Intercept Heating Degree Day Cooling Degree Day Number of Day Number of Day SUMMARY OUTPUT Regression Statistics Multiple R	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2376.21 7397.07 7174505.85 3974.16 89.67%	SS 3.48592E+13 3.39444E+13 6.8003E+13 Standard Error 1895517.804 248.2331631 2649.12642 67532.72687 2980.334918	MS 8.71479E+12 2.95169E+11 t Stat 0.53 9.57 2.79 2.58 1.33	F 29 52479129 0 595024101 2 65398-16 0 006131398 0 011017608 0 185024397	Significance F 6.84804E-17 Lower 95% -2744240.607 1884.503229 2149.658371 40736.51612 -1929.426378	Upper 95% 4765071313 2867.907472 12644.4775 308275.1854 9877.751082	Lower 95.0% -2744240.607 1884.503229 2.149.65371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016 2006 2000 2000	102,002,244,83 106,622,680,7 108,411,816,52 110,314,059,50 112,475,947,06 arage Percentage Error (Mape) : WWh Forecasted Purchases 103,362,192,52 103,556,698,37 WWh Purchased 99,777,534,70 99,726,774,81 101,056,193,30	103,245,726,04 103,565,625,72 102,601,234,41 103,439,117,58 104,070,295,65 year over year -8,09% 0.117% -0.17% -0.17% -0.17% -0.17%	0.62% 193% 5.36% 6.23% 7.47% 4.48% 4.08% 9.00% 0.94% 0.04% 0.94%
Scenario 4	Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Summer of Degree Month Number of Day SUMMARY OUTPUT Regression Statistics Multiple R Square	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2376.21 7397.07 174505.85 3974.16 89.67% 89.67%	SS 3.48592E+13 3.39444E+13 6.88035E+13 Standard Error 1895517.804 248.2331631 2649.12642 67532.72687 2980.394918	MS 8.71479E+12 2.95159E+11 1.5tat 9.57 2.79 2.58 1.33	F 29 52479129 D 595024101 2 56398E-16 0 006131398 0 01101760 0 01101760 0 01101760	Significance F 6.84804E-17 	Upper 95% 4765071.313 2867.90742 12844.47755 308275.1852 9877.751082	Lower 95.0% -2744240.607 1884.50322 2149.663371 40736.5161- -1929.426378	Upper 95.0% 4765071.313 22667-907472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016 Year 2005 2006 2000 2000 2000	102 069 254 83 105 625 689 07 108 411 816 52 110 714 05 50 erage Percentage Error (Mape) : W/h Forecasted Purchases 103 382, 192 52 103 556, 698 37 W/h Purchased 99, 177, 534 70 99, 777, 534 70 90, 776, 776, 776, 776, 776, 776, 776, 77	103245,726,04 10358656772 10260123441 103,439,117.58 104,070,295.65 <b>year over year</b> -8.09% 0.17% <b>Adjusted</b> 98,246,62642 99,560,77916 100,574,100.59	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08% 9.05% 0.94% 0.94% 0.94% 0.91% 1.00%
Scenario 4	Obsenations Obsenations ANOVA Regression Residual Total Total Total Cooling Degree Day Cooling Degree Day Number of Day Builder of Peak Hours SUMMARY OUTPUT Regression Statistics Multiple R Square Adjusted R Square	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2376.21 2376.21 2376.25 3974.16 3974.16 89.67% 80.40% 79.54%	SS 3.46902E+13 3.39444E+13 6.80035E+13 Slandard Error 1895517.802 2649 1264 2649 2264 67532 22687 2980.394918	MS 8.71479E+12 2.95169E+11 1.5tat 3.0.53 9.57 2.79 2.58 1.33	F 29 52479129 0 595024101 2 56398E-16 0 006131398 0 011017608 0 1185024397	Significance F 6.84804E-17 Lower 95% -2744240 607 1884 650229 2449 6637 149 6637 40736 51612 -1929 426378	Upper 95% 4755071-313 2867-907472 12544-47755 308275-1854 9677-751082	Lower 95.0% 27144240.607 1894.503229 2149.663371 40736.5161 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2014 Mean Av Median Year 2015 2016 2005 2006 2006 2006 2006	102,002,24,83 106,625,690,07 108,411,816,52 110,314,095,00 112,475,947,06 arage Percentage Error (Mape) : Wh Forecasted Purchases 103,362,192,52 103,556,698,37 Wh Purchased 99,727,74,81 101,965,193,30 100,510,269,57 93,345,3815,2	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,68 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,1776 Adjusted 98,246,626,42 99,650,773,16 100,973,066,73 101,514,100,59 98,421,377,38	0.62% 1.93% 5.36% 6.23% 4.48% 4.48% 4.08% 9.04% 0.94% 0.94% 0.94% 0.94%
Scenario 4	Obsenations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Cooling Degree Day Sumber of Day Houmber of Day SUMMARY OUTPUT Regression Statistics Multiple R Square Adjusted R Square Standard Error Standard Error	543294 1424 20 df 115 119 Coefficients 2376 21 7397 07 174505 85 3974.16 89.67% 80.40% 75.54%	SS 3.48592E+13 3.39444E+13 6.88035E+13 1895517.804 248.231631 2649.1262 67532.72687 2980.394918	MS 8/1479E+12 2/95169E+11 1/5tat 0.53 9.57 2.79 2.58 1.33	F 29 52479129 0 535024101 2 56398E-16 0 006131398 0 011017608 0 1185024397	Significance F 6,84804E-17 Lower 95% -2744240 507 1894 503229 2149 65371 40735 51612 -1929 426378	Upper 95% 4765071.313 2867.907472 12644.4775 308275.1854 98777.751082	Lower 95.0% 2744240.607 1884.50329 2149.65371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.901472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2014 Wean Av Median Year 2015 2016 2016 2006 2000 2000 2000 2000	102 009 254 83 105 625,680 07 108 411,816 52 110 314 059 20 112 475 947 06 errage Percentage Error (Mape) : W/h Forecasted Purchases 103 382,192 52 103 565,698 37 99,177,534 70 99,177,534 70 99,775,547 0 99,775,817 81 99,726,774 81 101,965,284 33	103,245,726,04 103,545,625,72 102,660,234,41 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 40,177% Adjusted 98,246,626,42 99,560,779,16 101,514,100,59 98,421,377,38 101,146,177,51 101,146,177,51	0.62% 1.93% 5.36% 6.23% 7.47% 4.48% 4.08% 9.04% 0.04% 0.04% 0.04% 0.04% 0.04% 0.04%
Scenario 4	Observations ANOVA Regression Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Number of Days in Month Number of Peak Hours SUMMARY OUTPUT Regression Statistics Multiple R Square Standard Error Observations	543294 1424 120 df 115 119 2026/ficients 1010415 35 12376 21 12376 21 12376 21 2376 21 12376 21 2376 21 2376 21 23774 16 3974 16 3974 16	SS 3.48592E+13 3.39444E+13 6.88035E+13 Standard Error 1895517 804 248.231635 248.231634 248.231634 248.231634 248.231634 248.231634 2580.394918	MS 8.71479E+12 2.95159E+11 1 Stat 0.53 9.57 2.79 2.56 1.33	F 29 52479129 0 595024101 2 56398E-16 0 006131398 0 011017608 0 185024397	Significance F 6.84804E-17 Lower 95% -2744204 607 1884 50322 2149 663371 40736 51612 -1929 426378	Upper 95% 4765071-313 2867-907472 12644-47755 308275-1854 9677.751082	Lower 95.0% 27142240.607 1894.503229 2149.66337 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2011 2013 2013 2014 Median Year 2015 2016 2006 2000 2000 2000 2000 2000 2010 201	102 009 264 83 105 625 690 07 108 411 816 52 110 314 059 50 112 475 947 06 erage Percentage Error (Mape) : W/h Forecasted Purchases 103 .462, 192 52 103 .566, 698 37 W/h Purchased 99, 177, 534 70 99, 726, 774 81 101 .956, 193 30 100, 510 260 57 93 .415, 381 52 102 .606 .284 83 105, 652, 658 07	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,117% Adjusted 98,246,626,42 99,690,779,14 100,973,066,73 101,514,100,59 98,421,377,38 101,146,377,51 105,897,670,74	0 62% 1 93% 5 36% 6 23% 4 48% 4 08% 9 0 94% 0 0 94% 0 0 94% 1 00% 5 36% 1 42% 1 12%
Scenario 4	Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Cooling Degree Day Sumber of Day Mumber of Day Summer of Peak Hours SUMMARY OUTPUT Regression Statistics Multiple R Square Adjusted R Square Standard Error Observations	543294 1424 120 df 119 Coefficients 1010415 35 2376 21 7397 07 174505 55 3974 16 89 67% 70 54% 343927 173 240 70 54% 120	SS 3.48592E+13 3.3444E+13 6.80035E+13 6.80035E+13 195517 804 248.2316517 804 248.2316517 804 2690 394918 2980 394918	MS 871479E+12 2 95169E+11 1 Stat 0 53 9 57 2 79 2 58 1 33	F 29 52479129 P-value 0 535024101 2 53998-16 0 006131398 0 011017608 0 1185024397	Significance F 6 84804E-17 Lower 95% -2744204 607 1894 50222 2149 663371 -40736 5162 -1929 426378	Upper 95% 4765071.313 2867.907472 1264.4775 308275.1854 9877.751082	Lower 95.0% 27142240.607 1884.50329 2149.65371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.901472 12644.47755 308275.1854 9977.751082	2010 2011 2012 2013 2014 Wean Av Median Year 2005 2006 2006 2006 2006 2006 2006 2006	102 002 244 83 105 625,680 07 108,411,816 52 110,314,059 50 112,247,947 06 errage Percentage Error (Mape) : White Forecasted Purchases 103,302,192,52 103,566,688,37 99,177,534,70 99,177,534,70 99,177,534,70 99,177,534,70 99,177,534,70 99,177,534,70 99,177,534,70 99,177,534,70 99,175,347,815,22 102,002,244 83 105,102,698,07	103,245,726,04 103,545,625,72 102,660,234,41 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 40,177% Adjusted 98,246,626,42,1377,38 101,146,177,51 105,286,540,81	0 62% 1 53% 5 35% 6 23% 6 23%
Scenario 4	Observations ANOVA Regression Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day SUMMARY OUTPUT Regression Statistics Multiple R Standard Error Observations ANOVA	543294 1424 120 df 115 119 2004fCoents 10104 15 35 12376 21 12376 21 12376 21 2376 21 2376 21 2376 21 2376 21 2377 15 3974 16 98 67% 80 40% 97 44% 120	SS 3.48592E+13 3.39444E+13 6.88035E+13 5.88035E+13 2.48.2316517 804 2.48.2316517 804 2.48.2316517 804 2.48.2316517 804 2.48.23164 2.48.25164 2.48.25164 2.48.25164 2.48.25164 2.49.251664 2.49.251666666666666666666666666666666666666	MS 8.71479E+12 2.95159E+11 1 Stat 0.53 9.57 2.56 1.33	F 29 52479129 0 595024101 2 65398-16 2 65398-16 0 011017680 0 1185024397	Significance F 6.84804E-17 Lower 95% -2744240.607 1884.50229 2149.663371 40736.51612 -1929.426378	Upper 95% 4765071 313 2867 90172 12644 47755 308275 1854 9877.751082	Lower 95 0% -2744240 607 1804 50329 2149 663371 40736 51612 -1929 426378	Upper 95.0% 47650/1.313 2867.90/472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2013 2014 Median Year 2015 2016 2006 2000 2000 2000 2000 2000 2000	102 009 224 83 105 625 690 07 108 411 816 52 110 13 14 059 50 112 475 947 06 erage Percentage Error (Mape) : W/h Forecasted Purchases 103 .462, 192 52 103 .566 699 37 W/h Purchased 99, 177, 534 70 99, 726, 774 81 101, 305, 193 30 100, 510 226 57 93, 453, 815 22 102 000, 224 83 105, 625, 698 07 108 .411, 816 52 110 .314, 0595 00	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,1775 Adjusted 98,246,526,42 99,650,779,14 100,973,066,73 101,514,100,59 98,421,377,38 101,146,177,51 105,987,670,74 105,286,540,81 105,987,670,74 105,286,540,81 105,997,670,74 105,286,540,81 105,997,670,74 105,286,540,81 105,997,670,74 105,286,540,81 105,997,670,74 105,286,540,81 105,997,777,53 105,997,777,53 105,997,777,53 105,997,777,53 105,997,777,53 105,997,777,53 105,997,777,53 105,997,777,53 105,997,777,53 105,997,777,53 105,997,777,53 105,997,797,775 105,997,797,775 105,997,797,775 105,997,997,997 105,997,997 105,997,997 105,	0 62% 1 93% 5 36% 6 23% 4 48% 4 08% 9 0 94% 0 0 94% 0 0 94% 0 0 94% 1 00% 5 36% 1 42% 1 29% 2 85% 0 36%
Scenario 4	Obsenations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Number of Day Monther of Day SUMMARY OUTPUT Regression Statistics Multiple R Square Adjusted R Square Standard Error Observations ANOVA	543294 1424 120 df 119 Coefficients 1010415 35 2376 21 7397 07 174505 55 3974 16 98 67% 79 54% 343927 1735 120 120 120 120 120 120 120 120 120 120	<u>SS</u> 3.48592E+13 3.3444E+13 6.8003E+13 6.8003E+13 5.8004E+12 1995517 804 248.23163517 804 248.231631 2649.12642 2980.394918 2980.394918	MS 8.71479E+12 2.95169E+11 1 Stat 0.53 9.57 2.58 1.33	F 29 52479129 0 5952479129 2 563981-16 0 0 06131398 0 011017600 0 011017600 0 011017600 0 1185024397	Significance F 6 84804E-17 Lower 95% -2744204 607 1894 50222 -1929 426378 -1929 426378 Significance F	Upper 95% 4765071.313 2867.90742 12844.47755 308275.1854 9877.751082	Lower 95.0% - 274420.607 1884.50322 2149.663371 40736.5161 - 1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2011 2012 2013 2014 Mean Ava Median Year 2015 2016 2006 2006 2007 2006 2007 2006 2007 2006 2009 2010 2011 2012 2013 2014 2017 2017 2017 2017 2017 2017 2017 2017	102,002,254,83 105,625,680,07 108,411,816,52 110,314,059,50 112,275,947,06 errage Percentage Error (Mape) : Why Forecasted Purchases 103,362,192,52 103,566,698,37 Why Purchased 99,177,534,70 99,175,534,70 99,175,554,70 99,175,554,70 99,175,554,70 99,175,554,70 99,175,554,70 99,175,554,70 99,175,554,70 99,175,554,70 99,175,554,70 99,175,554,70 99,175,554,70 99,1754,7554,70 99,1754,7554,70 99,1754,7554,70 99,1754,	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,58 104,070,295,65 <b>year over year</b> -8,09% 0,17% <b>Adjusted</b> <b>98</b> ,246,626,42 <b>99</b> ,690,779,16 100,973,065,73 <b>101</b> ,541,400,59 <b>98</b> ,421,377,38 <b>101</b> ,146,177,51 <b>105</b> ,286,540,81 <b>105</b> ,286,540,81	0 62% 1 93% 1 93% 5 36% 6 23% 4 47% 4 47% 4 48% 9 0 0 44% 0 0 44% 0 0 44% 0 0 44% 0 0 44% 0 0 44% 0 36% 0 36%
Scenario 4	Observations ANOVA Regression Regression Resolut Total Intercept Heating Degree Day Cooling Degree Day Number of Days in Month Namber of Pseak Hours SUMMARY OUTPUT Regression Statistics Multiple R Standard Error Observations ANOVA Regression	543294.1424 120 df 4 115 100415.35 101015.35 3374.16 88.67% 84.49 343923.7135 120 df 4 4 5.55 3374.16 5.55 3374.16 5.55	SS 3.48926-10 3.39444E-11 6.8003E+13 Stardard Enor 199557 (200 3949 1242 2980 394918 2980 394918 2980 394918 2980 394918	MS 8 71479E+12 2 95169E+11 1 Stat 1 Stat 3 9 57 2 79 2 59 8 1.33 1 133	F 29 52479129 0 595024101 2 65398-16 0 006131388 0 01101768 0 018024397	Significance F 6.84804E-17 Lover 99% 2744204 650229 2744204 650229 2744204 650229 2744204 650229 2744204 6502 1929 426378 Significance F 1.0994E-38	Upper 95% 4765071.313 2867.90172. 308275.1856 9877.751082	Lower 95 0% 274420 607 1804 50229 419 668371 40736 51612 -1929 426378	Ugoar 95.0% 4755071313 4755071313 12644.47755 306275.1854 9877.751082	2010 2011 2011 2013 2013 2014 Median Year 2015 2016 2006 2000 2000 2000 2000 2000 2000	102,002,244,83 105,622,690,7 109,411,816,52 110,114,059,50 112,475,947,06 proge Percentage Error (Mape) : W/h Porocasted Purchases 103,462,192,52 103,556,598,37 W/h Purchased 99,727,534,70 99,726,774,81 101,956,193,30 100,510,260,57 93,415,381,52 102,002,244,83 105,625,698,07 109,411,816,52 110,214,059,50 112,247,547,06 parage Percentage Fror (Mace)	103,245,726,04 103,545,625,72 102,601,234,41 103,499,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,17%	0 62% 1 93% 5 36% 6 23% 4 48% 4 48% 9 04% 0 94% 0 04% 0 94% 0 04% 0 94% 1 00% 5 36% 1 29% 2 88% 0 36% 0 36% 1 45%
Scenario 4	Obsenations ANOVA Regression Residual Total Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Number of Day Buy SUMMARY OUTPUT Regression Statistics Multiple R Square Adjusted R Square Standard Error Observations ANOVA Regression Residual DegreeDag	543294 1424 120 df 119 Coefficients 1010415 35 2376 21 7397 07 174505 55 3974 16 98 67% 79 54% 343927 1735 120 120 120 120 120 120 120 120 120 120	SS 3.48592E+13 3.3444E+13 6.8003E+13 5.8004E+13 2649.2642 27802.2842 2980.394918 2980.394918 2980.394918 2980.394918 2980.394918	MS 8.71479E+12 2.9519E+11 1.5tat 0.53 9.57 2.79 2.58 1.33 MS 1.10538E+13 1.10538E+13 1.10538E+13	F 29 52479129 0 559024101 2 56398E-10 0 006131398 0 011017600 0 011017600 0 011017600 0 185024397	Significance F 6 84804E-17 2009 95% -274420 607 1894 50229 -1929 426378 -1929 426378 Significance F 1.09996E-38	Upper 95% 4765071.313 2867.90742 2867.90742 308275.1854 9877.751082	Lower 95.0% -2744240.607 1884.50322 2149.663371 40736.5161 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2011 2012 2013 2014 Mean Av Median Year 2015 2016 2006 2006 2006 2007 2007 2007 2007 200	102,002,254,83 105,625,680,07 108,411,816,52 110,314,059,50 112,275,947,06 errage Percentage Error (Mape) : Wh Forecasted Purchases 103,302,192,52 103,556,698,37 101,305,192,52 103,556,698,37 101,305,192,52 102,524,70 101,305,193,30 105,102,692,71 101,305,193,30 105,102,692,71 105,102,692,67 105,102,672,672,672 105,102,672,672,672 105,102,672,672,672 105,102,672,672,672 105,102,672,672,672 105,102,672,672,672 105,102,672,672,672 105,102,672,672,672,672 105,102,672,672,672,672 105,102,672,672,672,672,672,672,672,672,672,67	103,245,726,04 103,545,625,72 102,601,234,41 103,549,5625,72 102,601,234,41 103,439,117,58 104,070,295,65 <b>year over year</b> -8,09% 0,17% <b>Adjusted</b> 98,246,556,42 99,560,779,16 100,973,066,73 101,544,100,59 98,442,137,38 101,146,177,51 105,286,640,81 105,286,640,81 105,286,640,81 105,997,717,530 111,987,422,24	0 62% 1 93% 1 93% 5 36% 6 23% 4 40% 4 40% 4 08% 9 urch. VS Adj. 0 94% 0 04% 0 04% 1 00% 1 00% 1 00% 1 00% 0 23% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24% 0 24%
Scenario 4	Observations ANOVA Regression Resolual Total Intercept I	543294 1424 120 df 4 115 1010145 35 2027 1010145 35 3974 16 89 67% 80 40% 34322 713 44 120 120 120 120 120 120 120 120	SS 3 48592E+13 3 3444E+13 6 648035E+13 8 548046E for 1895517.804 2 920 3 5482 2 920 3 54918 2 920 3 94918 2 940 3 94018 2 9401	MS 8 71479E+12 2 95169E+11 1 Stat 1 Stat 2 79 2 58 1 .33 MS 1 10538E+13 1 10538E+13 1 10284E+11	F 29 52479129 0 555024101 2 56396E-16 0 006131388 0 01101768 0 01101768 0 01101768 0 165024397	Significance F 6 44804E-17 10mer 95% 2744204 659 149 65837 40736 51612 -1929 426378 Significance F 1.09996E-38	Upper 95% 4765071.313 2867.90712 12844.47755 306275.1845 9677.751082	Lower 95.0% 2744240.607 1884-50329 2149-663371 40738-5161 -1929-426378	Upper 85.0% 4765071.313 2867.907472 1284.47775 308275.1084 9877.751082	2010 2011 2011 2012 2013 2014 Wedan Year 2015 2016 2006 2000 2000 2000 2000 2000 2000	102,002,244,83 105,625,690,07 109,411,816,52 110,114,059,50 112,475,947,06 112,475,947,06 112,475,947,06 103,566,690,37 104,57 104,57 104,597,56 104,57 104,57 104,597,56 104,57 104,57 104,57 104,57 104,597 10	103245,726,04 103586,56772 102,60123441 103499,11758 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,17%	0 62% 1 53% 5 35% 6 23% 7 47% 4 08% 9 0 94% 0 94% 0 0 94% 0 0 94% 0 0 94% 1 00% 1 20% 1 42% 1 42% 1 42% 1 42% 0 59%
Scenario 4	Obsenations ANOVA Regression Residual Total Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Number of Day Builder R SUMMARY OUTPUT Regression Statistics Multiple R Square Adjusted R Square Standard Error Observations ANOVA Regression Residual Total	5432941424 120 df 119 Coefficients 1010415.35 1231621 1397 07 174505 55 33974.16 88.67% 95.45% 79.54% 79.54% 79.54% 79.54% 79.54% 79.54% 79.54% 70.54% 70.54% 71.14% 75.54%75.54% 75.54% 75.54% 75.54% 75.54%75.54% 75.54% 75.54% 75.54%75.55% 75.54% 75.54% 75.54%75.54% 75.54%75.55% 75.54% 75.54%75.55% 75.54%75% 7	SS 3.48992E+13 3.39444E+13 6.80035E+13 5.80035E+13 2649.2642 6.7532.7268 2980.394918 2980.394918 5.5392E+13 1.34945E+13 6.63035E+13	MS 8.71479E+12 2.95159E+11 1 Stat 0.53 9.57 2.79 2.58 1.33 MS 1.10538E+13 1.10204E+11	F 29 52479129 0 559024101 2 65398-10 0 06151338 0 01101760 0 01101760 0 01101760 9 01101760 9 3 53663995	Significance F 6.84804E-17 Lower 95% -2744240 607 1884 50322 -1929 426378 -40736 5162 -1929 426378 Significance F 1.09996E-38	Upper 95% 4765071.313 2867.90742 12844.47755 308275.1854 9877.751082	Lower 95.0% 2744240.607 1884.50322 2149.663371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2013 2013 2014 Mean Av 2015 2016 2006 2006 2006 2006 2006 2006 2006	102 002 254 83 105 625,680 07 108,411 816 52 110,314 059 50 112,475 947 06 errage Percentage Error (Mape) : Wh Forecasted Purchaser 103,392,192 52 103,556,698 37 104,556,598 37 105,556,598 37 105,556,598 37 105,516 39 105,516 39 105	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,17%	0 62% 1 93% 1 93% 5 36% 6 23% 6 23% 4 40% 4 40% 9 44% 0 44% 0 44% 0 44% 0 44% 0 56% 0 26% 0 26% 0 26% 0 26% 0 26% 0 26% 0 26% 0 26% 0 26% 0
Scenario 4	Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Days in Month Number of Days in Month Number of Paak Hours SUMMARY OUTPUT Regression Statistics Mitiple R Adjusted R Square Standard Enor Observations ANOVA Regression Residual Total	543294.1424 120 df 4 115 1010415.35 2376.21 7397.07 174505.85 33974.16 88.67% 80.40% 73.54% 34322.7153 2436.21% 120 df 5 1144	SS 3.48592E+13 3.3444E+13 6.8003E+13 Standard Error 1896517.804 2848.2316517.804 2960.394916 SS 5.53192E+13 1.34642E+13 1.34642E+13 1.34642E+13 6.8003E+13 2.4402E+13 1.3464	MS 8 71479E+12 2 95169E+11 1 Stat 0 53 9 57 2 79 2 58 1 33 MS MS 1 10538E+13 1 10224E+11	F 29 52479129 P-value 0 5950240 2 56399E-16 0 016131398 0 011017600 0 011017600 0 011017600 9 3 53663995	Significance F 6 84804E-17 10xer 96% 2744248 607 1894 50329 249 66837 40786 51612 -1929 426378 Significance F 1.09996E-38	Upper 95% 47650/1.313 2867.90/12 2867.90/12 3002/5.1862 9877.751082	Lower 95.0% -2744240.607 1884.50329 -149.663371 -1929.426378	Upper 95.0% 4765071.313 2867.901472 1264.47755 30275.1854 3977.751082	2010 2011 2011 2012 2013 2014 Mean Av Year 2015 2006 2006 2006 2007 2008 2009 2010 2011 2012 2013 2014 2013 2014 2015 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	102 009 244 83 105 625,680 07 108 411,816 52 110 714 045 50 112 475 547 06 erage Percentage Error (Mape) : W/h Forecastid Purchases 103,382,192 52 103,556,698 37 W/h Purchased 99,177,534 70 99,177,534 70 99,777,534 70 99,775,547 60 99,777,534 70 99,775,547 60 99,777,534 70 99,775,547 60 99,777,534 70 99,777,534 70 90,775,547 60 90,775,547 60 90,775,547 60 90,775,547 60 90,775,776 102,752,70	103,245,726,04 103,545,525,72 102,601,234,41 103,439,117,58 104,070,295,65 <b>year over year</b> -8,09% 0.17% <b>Adjusted</b> 98,246,526,40 91,514,400,59 98,421,377,38 101,514,100,59 98,421,377,38 101,514,100,59 98,421,377,38 101,514,100,59 98,421,377,38 101,146,177,51 106,286,540,81 109,917,775,30 111,1987,422,24	0 62% 0 62% 1 93% 5 36% 6 23% 6 23% 4 47% 4 48% 4 08% Purch. VS Adj. 0 94% 0 94%
Scenario 4	Observations ANOVA Regression Resolual Total Intercept Heating Degree Day Cooling Degree Day Number of Deak Hours SUMMARY OUTPUT Regression Statistics Multiple R Square Adjusted R Square Standard Error Observations ANOVA Regression Residual Total	543294 1424 120 df 119 Coefficients 1010415 35 12316 21 17397 07 174505 55 13974 16 88 67% 79 54% 79 54% 79 54% 79 54% 71 14 11 119 20 20 20 20 20 20 20 20 20 20 20 20 20	SS 3.4892E+13 3.39444E+13 6.8003E+13 195577 804 248.2316577 804 248.2316577 804 25980.384918 25980.384918 5532 7267 2980.384918 5532 7267 2980.384918 5532 7267 2980.384918 5532 7267 2980.384918 5532 7267 2980.384918 5532 7267 2980.384918 5532 7267 2980.384918 5532 7267 5532 7275 5532 7275 55357 5535 5535 5535 5535 5555 5555	MS 8.71479E+12 2.95159E+11 1 Stat 0.53 9.57 2.79 2.58 1.33 1.10538E+13 1.10538E+13 1.10234E+11 1.1224E+11	F 29 52479129 0 559024101 2 65398-10 0 006131398 0 011017600 0 011017600 0 011017600 0 011017600 9 3 53663995 F 9 3 53663995	Significance F 6.84804E-17 10wer 95% 2744240 650 1249 66337 40736.51612 -1929.426378 Significance F 1.09996E-38 Lower 95%	Upper 95% 4765071.313 2867.90712 12644.47755 308275.1854 9877.751082 Upper 95%	Lower 25.0% 2744240.607 1884.50322 2149.663371 40736.51612 -1929.426378	Upper 95.0% 4765071.313 2867.907472 12644.47755 308275.1854 9877.751082	2010 2011 2012 2013 2013 2014 Mean Av 2015 2016 2006 2000 2000 2000 2000 2000 2000	102 002 244 83 105 625,680 07 108,411 816 52 110,314 059 50 112,247 5947 06 arrage Percentage Error (Mape) : Wh Forecasted Purchasen 103 302 192 52 103 556 598 37 Wh Purchased Wh Purchased 103 051 56 598 37 104 510 268 57 105 102 667 48 100 510 268 57 103 651 693 30 106 510 268 57 103 651 693 30 106 510 268 57 102 668 248 33 105 625 698 07 108,411 816 52 102 668 248 33 106 525 698 07 108,411 816 52 102 668 248 33 106 527 898 77 108,411 816 52 102 417 598 70 108,411 816 52 102 418 52 103 556 598 57 103 556 598 57	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,17%	0 62% 0 62% 1.93% 5.36% 6.23% 4.08% 4.08% 9.47% 0.44% 0.44% 0.44% 0.45% 1.29% 1.29% 1.29% 0.36% 0.36% 0.36% 0.37%
Scenario 4	Observations ANOVA Regression Regression Residual Total Intercept Intercept Intercept Regression Statistics Multiple R Regression Statistics Multiple R SumMARY OUTPUT Regression Statistics ANOVA Regression Residual Total Intercept	543294.1424 20 df 4 115 1010415.35 2376.21 7397.07 174505.85 3974.16 88.67% 88.40% 79.54% 34302.2175 2476.21 20 df 5 114 119 Coefficients 120 120 120 120 120 120 120 120	SS 3.46592E+13 3.34442+13 5.48035E+13 5.48035E+13 2.649.32547 2.949.2542 2.949.3547 2.949.3547 2.940.394916 SS 5.53192E+13 5.43192E+13	MS 8.71479E+12 2.95169E+11 1. Stat 1. Stat 1. 33 MS 1.10638E+13 1.10638E+13 1.11628E+13 1.11628E+13 1.11628E+13 1.11628E+13 1.11628E+13 1.11628E+13 1.11628E+13 1.11628E+14 (6.65)	F 29 52479129 0 5952479129 2 563982-116 0 06513398 0 011017600 0 011017600 0 011017600 0 011017600 9 3 53663995 F 9 3 53663995 P-value 1 07067E-09	Significance F 6 84804E-17 10wer 99% - 2744248 607 194 543229 4 9785 51812 - 1929 426378 Significance F 1.09996E-38 Lower 95% - 12483224 2	Upper 95% 4765071.313 2867.90174 308275.1864 9877.751082 Upper 95% 4771593.389	Lower 95.0% -274424.607 1884.50322 -1929.426378 -1929.426378 -1929.426378 Lower 95.0% -12463224.2	Upper 95.0% 476507.313 2867.901472 1264.47755 306275.1864 9877.751082	2010 2011 2012 2013 2014 2013 2014 Mean Av Median Year 2005 2006 2000 2000 2010 2011 2012 2013 2014 2015 2005 2006 2010 2010 2010 2010 2010 2010 2010	102 009 254 83 105 625,589 07 108 411,816 52 110 314 059 50 112 475 947 06 errage Percentage Error (Mape) : W/h Forecasted Purchases 103 382,192 52 103 556,698 37 99,177,534 70 99,177,534 70 90,172,545 70 100,102,105 10	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,17% 0,07%	0 62% 1 93% 1 93% 5 36% 6 23% 6 23% 4 47% 4 48% 4 08% Purch. VS Adj. 0 94% 0 04% 0 04% 0 91% 1 00% 5 36% 1 42% 1 44% 1 42% 1 44% 1 44%
Scenario 4	Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Days in Month Number of Peak Hours SUMMARY OUTPUT Regression Statistics Multiple R Square Adjusted R Square Standard Error Observations ANOVA Regression Residual Total Intercept Heating Degree Day	543294 1424 120 df 119 Coefficients 1010415 35 2376 21 7397 07 174505 85 33974 16 88 67% 83 499 343923 7135 120 df 5 114 119 120 5 14 14 119 120 120 120 120 120 120 120 120 120 120	SS 3.4692E+13 3.3444E+13 3.3444E+13 3.3444E4 6.80035E+13 2.549 1244 2.549 1244 6.7532 12687 2.960 394918 SS 5.53192E+13 1.34492E+13 6.80035E+13 SS 5.53192E+13 1.34492E+13 5.53192E+13 1.34492E+13 5.53192E+13 1.34492E+13 5.53192E+13 1.34492E+13 5.53192E+13 1.34492E+13 5.53192E+13	MS 8.71479E+12 2.95159E+11 <i>I Stat</i> 0.53 9.57 2.79 2.58 1.33 1.10538E+13 1.18284E+11 <i>I Stat</i> (6.65) 1.551	F 29 52479129 P-value 0 595024101 2 65398E-10 0 0011017600 0 011017600 0 011017600 0 011017600 0 011017600 9 35 53663995 P-value 1 07067E-09 5 - 14366E 23 5 - 14366E 23	Significance F 6.84804E-17 1.0wer 95% 2.744240 657 1.929 426378 Significance F 1.0996E-38 1.0996E-38 1.0996E-38	Upper 95% 4765071 313 2867.90712 12644.47755 308275.1852 9877.751082 9877.751082	Lower 95.0% 2744240.607 1884.50322 4149.66337 40736.51612 -1929.426378 Lower 95.0% 12483274.2 2298.341657	Upper 95.0% 47650/1.313 2867.907472 12644.47755 308275.1854 9877.751082 9877.751082	2010 2011 2011 2013 2013 2014 Mean Av Median Year 2015 2016 2006 2000 2000 2010 2011 2011 2011	102 008 224 83 105 625,680 07 108,411 816 52 110 314 095 00 112 475 947 06 erage Percentage Error (Mape) : Wh Forecasted Purchases 103 302 192 82 103 556 698 37 Wh Purchased 99,777,534 70 99,727,74 81 101,965,199 30 100,510 280 37 93,453,8152 102 060 284 83 105,625,686 07 108,411,816 52 110,245,937 06 orage Percentage Error (Mape) : Wh Forecasted Purchases 111,562,566 75 113,467 673 71	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,58 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 0,17% Adjusted 96,246,626,42 99,660,779,16 100,973,066,73 101,544,000,59 98,421,377,38 101,146,477,51 105,967,707,4 105,265,540,87 111,1987,422,24 year over year -0,82% 1.72%	0 62% 0 62% 1.93% 5.36% 6.23% 4.08% 4.08% 9 9 9 9 1.00% 0.94% 0.94% 0.94% 0.94% 0.94% 0.94% 0.94% 0.94% 0.95% 0.36
Scenario 4	Observations ANOVA Repression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Number of Days in Month Number of Days in Month Number of Pask Hours SUMMARY OUTPUT Regression Statistics Multiple R Raguare Standard Error Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling De	543294.1424 120 df 4 115 119 Coefficients 1010415.35 2316.21 7397.07 174505.55 3974.16 88.67% 88.67% 88.67% 174505.55 34.3927.1135 4.3927.1135 120 df 5 114 119 Coefficients 120 121 121 121 121 121 121 121	SS 3.48592E+13 3.3444E+13 6.84035E+13 8.48035E+17 2848.231637 2849.2482 2980.384918 2980.384918 2980.384918 2980.384918 5.53192E+13 5.53192E+13 6.88035E+13 6.88035E+13 5.548471 1.4446655 5.454871 1.8764.84978	MS 8.71479E+12 2.95169E+11 1.5tat 1.5tat 1.10538E+13 1.10538E+13 1.10538E+13 1.16538E+13 1.1658E+13 1.1658E+13 1.1651 3.866	F 29 52479129 0 55924101 2 56398-16 0 006131398 0 011017608 0 101017608 0 10100769 9 3 53663995 F P-value 1 07067E-09 5 14366E-32 0 000183804	Significance F 6 84804E-17 1084-503229 2149-663371 1084-503229 -1929-426378 -1929-426378 Significance F 1.09996E-38 Lower 95% -12483224.2 2298-41657 3150-57242	Upper 95% 4765071.313 2867.90742 9877.751082 9877.751082 Upper 95% 4751593.389 2924.955143 9800.56595	Lower 95.0% -2744240.607 1884.50322 -1929.4263371 -1929.426378 -1929.426378 -1929.426378 -1929.426378 -1929.426378 -1929.426378 -1929.426378 -1924.5078 -1	Upper 95.0% 4765071.313 2867.901472 1264.47755 308275.1854 9877.751082 9877.751082	2010 2011 2011 2012 2013 2014 Mean 2015 2015 2005 2006 2007 2006 2007 2006 2009 2010 2011 2011 2012 2013 2014 Mean Av Median	102 002 254 83 105 625,680 07 108,411,816 52 110,314,059 50 112,475,947 06 errage Percentage Error (Mape) : Wh Forecasted Purchases 103,382,192 52 103,565,688 37 Wh Purchased 99,177,534 70 99,177,534 70 99,777,534 70 99,777,534 70 99,777,534 70 99,777,534 70 99,777,534 70 99,775,534 70 99,777,534 70 99,775,534 70 99,775,734 70 101,955,50 113,467,673,71	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 105,244,626,42 105,246,626,42 105,246,626,42 105,246,626,42 105,246,626,42 105,246,626,42 105,246,67,41 105,286,57,41 105,	0 62% 1 93% 1 93% 5 35% 6 23% 6 23% 4 48% 4 48% 4 08% 9 100% 0 94% 0
Scenario 4	Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day SUMMARY OUTPUT Regression Statistics Multiple R Standard Error Observations ANOVA Regression Residual Total Intercept Interc	543294 1424 120 df 119 Coefficients 1010415 35 2376 21 7397 07 174505 85 33974 16 88 67% 80 40% 343923 7135 33974 16 120 df 5 114 119 19 19 9 40 5 114 10 10 10 10 10 10 10 10 10 10 10 10 10	SS 3.46926-11 3.39446-11 3.39446-11 3.39446-11 129651704 2549 1244 67532 72667 2390 394918 2580 394918 5.531927-11 3.44432-13 6.880356-13 5.531927-13 1.34432-13 5.840366-5.521 128.156465-512 158.156465-512	MS 8.71479E+12 2.95159E+11 <i>I Stat</i> 0.53 9.57 2.79 2.58 1.33 1.33 1.10538E+13 1.116284E+11 <i>I Stat</i> (6.65) 1.6.51 3.86 2.72	F 29 52479129 D soglo2 0 559024101 2 559024101 2 559024101 2 559024101 2 559024101 2 559024101 2 559024101 0 101017608 9 3 53663995 P-value 1 07067E-09 5 14366E-29 0 000761083904 0 000761083904	Significance F 6.84804E-17 1.0wer 90% 2.744240 650 1.929 426378 1.09996E-38 1.09996E-38 1.09996E-38 1.09996E-38 1.09996E-38 1.09995E-38 1.09955E-38 1.0955E-38 1.0955E-38 1.0955E-38 1.0955E-38 1.0955E-38 1.0955E-38 1.0955E-38 1.0955E-38 1.0955E-38 1.0955E-38 1.0055E-38 1	Upper 95% 4765071 313 2867, 90712 12644, 47755 308275, 1854 9877, 751082 9877, 751082 977, 751082 9777, 751082 9777, 751082 977,	Lower 95.0% 2744240.607 1884.50322 4149.66337 40736.51612 -1929.426378 1929.426378 1929.426378 1929.426378 1929.50% 12443224.2 2298.34165 3166.67242	Upper 95.0% 47650/1.313 2867.90/472 12644.47755 308275.1854 9877.751082 9877.751082	2010 2011 2011 2013 2013 2014 Mean Av Median Year 2015 2016 2006 2000 2000 2010 2011 2013 2014 2015 2016 2017 2015 2016 2017 2016 2017 2017 2018 2017 2018 2017 2017 2017 2017 2017 2017 2017 2017	102,002,244,83 106,622,680,7 108,411,816,52 110,314,095,0 112,475,947,06 arage Percentage Error (Mape) : W/h Forecasted Purchases 103,302,192,52 103,556,698,37 W/h Purchasod 99,727,74,81 101,365,193,0 100,510,260,57 93,415,381,52 102,606,224,83 105,625,698,07 108,411,816,52 110,245,987,06 arage Percentage Error (Mape) : W/h Forecasted Purchases 111,562,566,75 113,467,673,71	103,245,726,04 103,545,625,72 102,601,234,41 103,549,5625,72 102,601,234,41 103,439,117,58 104,070,295,65 104,070,295,65 0,17%	0 62% 1 93% 5 36% 6 23% 4 48% 4 08% 9 00% 0 04% 0 04%0 04% 0 04%0000000000000000000000000000000000
Scenario 4	Observations ANOVA Repression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Cooling Degree Day Number of Days in Month Number of Peak Hours SUMMARY OUTPUT Regression Statistics Multiple R Regression Statistics Standard Error Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Observe Days Number of Days in Month	543294 1424 120 df 119 Coefficients 1010415 35 2376 21 7397 07 174505 85 3974 16 88 67% 88 67% 79 54% 120 df 5 114 19 Coefficients 120 0 0 114 19 10 10 10 10 10 10 10 10 10 10	SS 3.48592E+13 3.3444E+13 6.88035E+13 2649.21622 2648.231631 2649.12642 275.227.2697 2980.364918 SS 5.53192E+13 5.88035E+13	MS 8.71479E+12 2.95169E+11 <i>I Stat</i> 0.53 9.57 2.79 2.58 1.33 1.10538E+13 1.10538E+13 1.10538E+13 1.16284E+11 <i>I Stat</i> 0.66 2.72 3.566	F 29 52479129 0 595024101 2 56398-10 0 0016131398 0 011017608 0 1185024397 F 93 53663995 F P-value 1 07067E-09 5 14366E-32 0 00018393 0 00018436	Significance F 6 84804E-17 1084 503229 2149 66331 1094 503229 2149 66331 1093 5162 - 1929 426378 Significance F 1.09996E-38 Lower 95% 12483224 2 2395 40542 3150 57242 3150 58214 2949 66314	Upper 95% 4765071.313 2867.90/17.4 9877.751082 9877.751082 Upper 95% -6751593.389 2924.955143 9800.565665 201923.7476	Lower 95.0% -27.44240.607 1884.50322 -1929.426378 -1929.42678 -1929.42678 -1929.42678 -1929.4278 -1929.42678 -1929.42678 -1929.42678 -1929.42678 -19	Upper 95.0% 4765071.313 2867.901472 1264.47755 308275.1854 9877.751082 977.751082 9777.751082 9777.751082 9777.751082 9777.7510757 97777777777777	2010 2011 2011 2012 2013 2014 Mean Av Median Year 2005 2006 2006 2007 2006 2007 2006 2007 2006 2007 2006 2009 2010 2011 2011 2012 2015 2015 2015 2015	102 002 254 83 105 625,680 07 108,411,816 52 110,314,059 50 112,475,947 06 errage Percentage Error (Mape) : Wh Forecasted Purchases 103,302,192,52 103,566,698 37 Wh Purchased 99,177,534,70 99,177,534,70 99,777,534,70 101,105,105,60 111,105,256,60 111,115,25,666,50 111,115,52,666,73,71 113,467,673,71	103,245,786,04 103,586,562,72 102,601,234,41 103,489,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,17%	0 62% 1 93% 1 93% 5 36% 6 23% 4 40% 4 40% 9 91% 1 00% 5 36% 1 40% 0 94% 0 94% 0 94% 0 94% 0 94% 0 94% 0 36% 0 36% 0 43% 0 43% 1 46% 0 97%
Scenario 4	Observations ANOVA Regression Resolut Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day SUMMARY OUTPUT Regression Statistics Multiple R Suawe Adjusted R Square Standard Error Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Days in Month Number of Peak Hours	543294.1424 543294.1424 120 df 4 115 101015.35 10105.35 10105.35 10105.35 10105.35 10105.35 10105.35 10105.35 10105.55 10105.55 10105.55	SS 3.46926 3.9444E+13 3.9444E+13 6.80035E+13 Stardmed Env 1.96957704 2.969 1242 6.7532 72687 2.980 394918 2.980 394918 SS SS SS SS SS SS SS SS SS S	MS 8 71479E+12 2 95169E+11 1 Stat 5 57 2 79 2 58 1 33 1 10538E+13 1 10538E+13 1 10538E+13 1 10538E+13 1 18264E+11 1 55at 1 55at 1 55at 2 72 3 56 2 72 3 56 2 72 3 56 2 72 3 56 3 15 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	F           29 52479129           D-aquo           0 559024101           2 556752           0 0011017608           0 185024397           93 53663995           P-value           1 07067E-09           5 14356E-25           0 007501833           0 00055264           1 3382E	Significance F 6.84804E-17 1.0wer 99% 2.744204 650229 2.449 65377 4.0736 51612 1.929 426378 Significance F 1.09996E-38 1.09996	Upper 95% 4765071313 2867-90142 3802/5 1864 38077.751082 Upper 95% 4751593.389 3900.56966 2921923.747 10515.90017 19504.89125	Lower 95 0% 274420 607 1884 50322 4149 66337 40736 51612 -1929 426378 1929 426378 1929 426378 1929 426378 1929 426378 1929 426378 1929 50% 12443224 2 2298 34165 3166 6324 216538	Upper 95.0% 4755071 313 2867 907472 12644 47755 308275 1854 9877 751082 9877 751082 Upper 95.0% 4751593 389 2924 956 143 9900, 566965 201923 7476 10515 90017 19504, 89125	2010 2011 2011 2013 2013 2014 Mean Av Median Year 2015 2016 2006 2000 2000 2010 2011 2013 2014 2015 2016 2017 2015 2016 2016 2017 2017 2018 2019 2019 2019 2019 2019 2019 2019 2019	102,002,244,83 106,254,89,07 108,411,816,52 110,314,095,00 112,475,947,06 arage Percentage Error (Mape) : Wh Forecasted Purchasen Wh Purchased 99,727,534,70 99,726,774,81 101,365,69,89,37 102,062,244,83 100,561,269,30 100,510,260,57 93,415,381,52 102,062,244,83 105,652,696,07 108,411,816,52 110,245,696,76 111,2475,947,06 arage Percentage Error (Mape) : Wh Forecasted Purchasen 111,552,566,75 113,467,673,71	103,245,726,04 103,545,625,72 102,601,234,41 103,439,117,58 104,070,295,65 104,070,295,65 104,070,295,65 104,070,295,65 0,117% Adjusted Adjusted 98,246,626,42 99,650,779,16 100,973,066,73 101,544,000,59 98,421,377,38 101,145,477,51 105,997,670,74 105,295,640,317,38 101,145,477,53 101,199,747,75,30 111,397,422,24 1,72%	0 62% 1 93% 5 36% 6 23% 4 48% 4 48% 9 004% 0 94% 0 04% 0 94% 0 04% 0 94% 0 04% 0 94% 0 04% 0 94% 0 04% 0 94% 0 94% 0 94% 0 94% 0 94% 0 94% 0 94% 0 94% 0 94% 0 94% 0 94% 0 94% 0

Scenario 5	SUMMARY OUTPUT									Year	kWh Purchased	Adjusted	Purch. VS Adj.
										2005	99,177,534.70	97,870,866.08	1.32%
	Regression Statistics	90 729/								2006	99,726,774.81	99,293,903.67	0.43%
	R Square	80.51%								2007	100 510 260 57	101 593 565 48	1.08%
	Adjusted R Square	79.47%								2009	93,415,381.52	98,729,962.77	5.69%
	Standard Error	344514.5956								2010	102,608,264.83	101,496,421.68	1.08%
	Observations	120								2011	105,625,698.07	106,979,093.96	1.28%
	41101/4									2012	108,411,816.52	105,455,568.31	2.73%
	ANOVA	df	22	MS	E	Significanco E				2013	110,314,059.50	109,931,291.30	0.35%
	Regression	6	5 53915E+13	9 23192E+12	77 78160064	8 3081E-38				Mean Av	erage Percentage Error (Mape) :	112,000,401.22	1.54%
	Residual	113	1.3412E+13	1.1869E+11	11.10100004	0.00012.00				Median	eruge i ereentuge Error (inupe) :		1.10%
	Total	119	6.88035E+13										
		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%	Year	kWh Forecasted Purchases	year over year	
	Intercept Heating Degree Day	(10984498.15)	22/3194.225	(4.83)	4.28397E-06	-15466105.9	-6480890.4	-15466105.9	-6480890.4	2015	110,746,442.82	-1.54%	
	Cooling Degree Day	6807.39	1734.243202	3.93	0.000149302	3371.546155	10243.2433	3371.546155	10243.2433	2010	112,404,123.02	1.5776	_
	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				
Scenario 6	SUMMARY OUTPUT									Year	kWh Purchased	Adjusted	Purch. VS Adj.
										2005	99,177,534.70	97,727,390.48	1.46%
	Regression Statistics									2006	99,726,774.81	99,400,532.98	0.33%
	Multiple R	89.79%								2007	101,905,199.30	101,340,929.80	0.55%
	Adjusted R Square	80.63% 70.60%								2008	100,510,260.57	98 516 612 07	1.33%
	Standard Error	343412.8064								2009	102.608.264 83	100,934.294 89	1.63%
	Observations	120								2011	105,625,698.07	106,615,174.10	0.94%
										2012	108,411,816.52	105,513,056.17	2.67%
	ANOVA									2013	110,314,059.50	109,930,620.90	0.35%
	Deservation	df	SS	MS	F	Significance F				2014	112,475,947.06	112,344,045.11	0.12%
	Regression	113	5.54772E+13 1.33264E+13	9.2462E+12 1.17032E±11	78.40254458	5.80251E-38				Mean Av	erage Percentage Error (Mape) :		1.48%
	Total	119	6.88035E+13	1.17532E+11						median			1.13%
		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%	Year	kWh Forecasted Purchases	year over year	
	Intercept	(10353298.50)	1578257.145	(6.56)	1.68628E-09	-13480110.56	-7226486.441	-13480110.56	-7226486.441	2015	112,669,614.31	0.17%	
	Heating Degree Day	2597.96	158.3637991	16.41	1.13072E-31	2284.212803	2911.7073	2284.212803	2911.7073	2016	115,139,650.67	2.19%	
	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				
Scenario 7	SUMMARY OUTPUT									Year	kWh Purchased	Adjusted	Purch. VS Adi.
										2005	99,177,534.70	98,034,506.15	1.15%
	Regression Statistics									2006	99,726,774.81	99,204,286.82	0.52%
	Multiple R	89.76%								2007	101,905,199.30	100,615,594.58	1.27%
	R Square	80.58%								2008	100,510,260.57	101,257,679.07	0.74%
	Standard Error	343903 0451								2003	102 608 264 83	101 568 379 92	1 01%
	Observations	120								2011	105,625,698.07	106,871,031.51	1.18%
										2012	108,411,816.52	105,516,545.88	2.67%
	ANOVA									2013	110,314,059.50	109,972,997.59	0.31%
	Parragian	dt	5 542045 142	MS 0.02095E 140	79 10551090	Significance F				2014	112,475,947.06	112,228,664.37	0.22%
	Residual	113	1 33644E+13	1 18269E+11	70.12551303	0.00032E-30				Median	erage Percentage Error (mape) :		1.08%
	Total	119	6.88035E+13										
		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%	Year	kWh Forecasted Purchases	year over year	
	Intercept	(8456080.71)	1850139.243	(4.57)	1.25058E-05	-12121540.24	-4790621.175	-12121540.24	-4790621.175	2015	111,676,606.80	-0.71%	
	Cooling Degree Day	2603.68	158.3446311	16.44	9.391/6E-32 0.000121725	2289.975603	2917.39415	2289.975603	2917.39415	2016	113,337,914.44	1.49%	-
	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	-U.755385584	2.31651217	-0.755385584	2.31651217				
Scenario 8	SUMMARY OUTPUT									Year	kWh Purchased	Predicted	Difference
										2005	99,177,534.70	101,022,119.00	1.86%
	Regression Statistics									2006	99,726,774.81	100,486,423.95	0.76%
	Multiple R	94.47%								2007	101,905,199.30	102,018,514.07	0.11%
	IN OUUDIN STOLEN	09.25%								2008	93 415 381 62	95 317 999 79	2 0.05%
	Adjusted R Square	88 68%								2010	102,608.264.83	100,819,380.40	1.74%
	Adjusted R Square Standard Error	88.68% 255610.2042								2011	105,625,698.07	104.006.389.36	1.53%
	Adjusted R Square Standard Error Observations	88.68% 255610.2042 120								0040			
	Adjusted R Square Standard Error Observations	88.68% 255610.2042 120								2012	108,411,816.52	104,474,814.18	3.63%
	Adjusted R Square Standard Error Observations ANOVA	88.68% 255610.2042 120			-	0. 10				2012	108,411,816.52 110,314,059.50	104,474,814.18 111,813,624.29	3.63%
	Adjusted R Square Standard Error Observations ANOVA	88.68% 2555610.2042 120 df	SS 6 132695 - 12	MS	F 155 4290252	Significance F				2012 2013 2014	108,411,816.52 110,314,059.50 112,420,511.95	104,474,814.18 111,813,624.29 114,301,367.31	3.63% 1.36% 1.67%
	Adjusted R Square Standard Error Observations ANOVA Regression Residual	88.68% 255610.2042 120 df 6 113	SS 6.13268E+13 7.38303E+12	MS 1.02211E+13 65336576513	F 156.4380253	Significance F 2.46941E-52				2012 2013 2014 Mean Ave Median	108,411,816.52 110,314,059.50 112,420,511.95 erage Percentage Error (Mape) :	104,474,814.18 111,813,624.29 114,301,367.31	3.63% 1.36% 1.67% 1.54% 1.60%
	Adjusted R Square Standard Error Observations ANOVA Regression Residual Total	88.68% 255610.2042 120 df 6 113 119	SS 6.13268E+13 7.38303E+12 6.87098E+13	MS 1.02211E+13 65336576513	F 156.4380253	Significance F 2.46941E-52				2012 2013 2014 Mean Ave Median	108,411,816.52 110,314,059.50 112,420,511.95 erage Percentage Error (Mape) :	104,474,814.18 111,813,624.29 114,301,367.31	3.63% 1.36% 1.67% 1.54% 1.60%
	Adjusted R Square Standard Error Observations ANOVA Regression Residual Total	88.68% 255610.2042 120 df 6 113 119	SS 6.13268E+13 7.38303E+12 6.87098E+13	MS 1.02211E+13 65336576513	F 156.4380253	Significance F 2.46941E-52				2012 2013 2014 Mean Ave Median	108,411,816,52 110,314,059,50 112,420,511,95 erage Percentage Error (Mape) :	104,474,814.18 111,813,624.29 114,301,367.31	3.63% 1.36% 1.67% 1.54% 1.60%
	Adjusted R Square Standard Error Observations ANOVA Regression Residual Total	88.68% 255610.2042 120 df 6 113 119 Coefficients	SS 6.13268E+13 7.38303E+12 6.87098E+13 Standard Error	MS 1.02211E+13 65336576513 t Stat	F 156.4380253 P-value	Significance F 2.46941E-52 Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%	2012 2013 2014 Mean Ave Median	108,411,816,52 110,314,059,50 112,420,511.95 erage Percentage Error (Mape) : kWh Forecasted Purchases	104,474,814.18 111,813,624.29 114,301,367.31 year over year	i 3.63% 1.36% 1.67% 1.54% 1.60%
	Adjusted R Square Standard Error Observations ANOVA Regression Residual Tetal Intercept Intercep	88.68% 255610.2042 120 df 6 113 119 Coefficients (3.588,861.84) 2.62 ec	SS 6.13268E+13 7.38303E+12 6.87098E+13 Standard Error 1277978.547 117 657022	MS 1.02211E+13 65336576513 t Stat (2.81)	F 156.4380253 P-value 0.005870299 2.93275 43	Significance F 2.46941E-52 Lower 95% -6120767.841	Upper 95% -1056955.847	Lower 95.0% -6120767.841	Upper 95.0% -1056955.847	2012 2013 2014 Mean Ave Median Year 2015	108,411,816,52 110,314,059,50 112,420,511,95 arage Percentage Error (Mape) : KWh Forecasted Purchases 111,314,900,28	104,474,814.18 111,813,624.29 114,301,367.31 year over year -0.98%	i 3.63% 1.36% 1.67% 1.54% 1.60%
	Adjusted R Square Standard Error Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day	88.68% 255610.2042 120 df 6 113 119 Coefficients (3,588,861.84) 2,626.86 8 0.088.43	SS 6.13268E+13 7.38303E+12 6.87098E+13 Standard Error 1277978.547 117.5957243 1264.580522	MS 1.02211E+13 65336576513 <i>t Stat</i> (2.81) 22.34 6.40	F 156.4380253 P-value 0.005870299 2.92267E-43 3.72007E-09	Significance F 2.46941E-52 Lower 95% -6120767.841 2393.885657 5583.06381	Upper 95% -1056955.847 2859.842336 10593.78839	Lower 95.0% -6120767.841 2393.885657 5583.06381	Upper 95.0% -1056955.847 2859.842336 10593.78839	2012 2013 2014 Mean Ave Median Year 2015 2016	108,411,816,52 110,314,059,50 112,420,511,95 erage Percentage Error (Mape) : KWh Forecasted Purchases 111,314,900,28 111,517,167,98	104,474,814.18 111,813,624.29 114,301,367.31 year over year -0.98% 0.18%	3.63% 1.36% 1.67% 1.54% 1.60%
	Adjusted R Square Standard Error Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day	88,68% 2556610.2042 120 df 6 6 113 119 Coefficients (3,588,861.84) 2,626.86 8,068.43 127,263.55	SS 6.13268E+13 7.38303E+12 6.87098E+13 Standard Error 1277978.547 117.5957243 1264.580622 31975.41157	MS 1.02211E+13 65336576513 <i>t Stat</i> (2.81) 22.34 6.40 3.98	F 156.4380253 0.005870299 2.92267E-43 3.72007E-09 0.00012212	Significance F 2.46941E-52 Lower 95% -6120767.841 2393.885657 5583.06381 63914.49348	Upper 95% -1056955.847 2859.842336 10593.78839 190612.6083	Lower 95.0% -6120767.841 2393.885657 5583.06381 63914.49348	Upper 95.0% -1056955.847 2859.842336 10593.78839 139612.6083	2013 2013 2014 Mean Av Median Year 2015 2016	108.411.816.52 110.314.0959.00 112.420.511.95 erage Percentage Error (Mape) : WWh Forecasted Purchases 111.314.900.28 111.517.167.98	104,474,814.18 111,813,624.29 114,301,367.31 year over year -0.98% 0.18%	3.63% 1.36% 1.67% 1.54% 1.60%
	Adjusted R Square Standard Error Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Number of Days in Month Number of Days in Month	86,68% 255610.2042 120 df 6 113 119 Coefficients (3,588,861,84) 2,6,262,86 8,088,43 127,263,55 4,6,687,76	SS 6.13268E+13 7.38303E+12 6.87098E+13 Standard Error 1277978.547 117.5957243 1264.580622 31975.41157 1425.236522	MS 1.02211E+13 65336576513 <i>t Stat</i> (2.81) 22.34 6.40 3.98 3.29	F 156.4380253 P-value 0.005870299 2.92267E-43 3.72007E-09 0.00012212 0.001340451	Significance F 2.46941E-52 Lower 95% -6120767.841 2393.885657 5583.06381 63914.49348 1864.109145	Upper 95% -1056955.847 2859.842336 10593.78839 190612.6083 7511.410357	Lower 95.0% -6120767.841 2393.885657 5583.06381 63914.49348 1864.109145	Upper 95.0% -1056955.847 2859.842336 10593.78839 190612.6083 7511.410357	2012 2013 2014 Mean Av Median Year 2015 2016	108 411 316 52 110 314 059 50 112 420 511 95 arage Percentage Error (Mape) : W/h Forecasted Purchases 111 314 300 28 111 517 167 98	104,474,814.18 111,813,624.29 114,301,367.31 year over year -0.98% 0.18%	3.63% 1.36% 1.67% 1.54% 1.60%
	Adjusted R Square Standard Error Observations ANOVA Regression Residual Total Intercept Heating Degree Day Cooling Degree Day Cooling Degree Day Cooling Degree Day Cooling Degree Day Romber of Days in Month Number of Peak Hours Regional Employment	88,68% 255610,2042 120 df 6 113 119 Coefficients (3,588,861 84) 2,626 86 8,088 43 127,263 85 4,667 76 6,161 97	SS 6.13268E+13 7.38303E+12 6.87098E+13 Standard Error 1277978.547 117.5957243 1264.580622 31975.41167 1425.236522 1586.58174	MS 1.02211E+13 65336576513 <i>t Stat</i> (2.81) 22.34 6.40 3.98 3.29 3.88	F 156.4380253 0.005870299 2.92267E-43 3.72007E-09 0.0012212 0.001340451 0.001364	Significance F 2:46941E-52 -6120767.841 2:393 885657 5583.06381 6:3914.49348 1864.109348 3018.661971	Upper 95% -1056955.847 2859.842336 10593.78839 190612.6083 7511.410357 9305.271134	Lower 95.0% -6120767.841 2393.885657 5583.06381 63914.49348 1864.109145 3018.661971	Upper 95.0% -1056955.847 2859.842336 10593.7839 190612.6083 7511.410357 9305.271134	2012 2013 2014 Mean Av Median Year 2015 2016	108 411 815 52 110 314 .055 50 112 .220.511 95 prage Percentage Error (Mapo) : kWh Forecasted Purchases 111 .314 .900 .28 111 .517 .167 .98	104,474,814.18 111,813,624.29 114,301,367.31 year over year -0.98% 0.18%	3.63% 1.36% 1.67% 1.54% 1.60%

# 1 Appendix 3B / Continued – Regression Scenarios Performed

Wellington North Power Inc. EB-2015-0110 Exhibit 3 – Revenues Filed: October 2015

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



		Table of Contents							
	Summary	Provides a summary of the LDC specific ESO-Contracted Province-Wide Program performance to date: achievement against target using scenerio 1, sector breakdown and progress to target for the LDC community.							
		LDC-Specific Performance (LDC Level Results)							
Table 1	LDC Initiative and Program Level Net Savings	Provides LDC-specific initiative-level results (activity, net peak demand and energy savings, and how each initiative contributes to targets).	4						
Table 2	LDC Adjustments to Net Verified Results	Provides LDC-specific initiative level adjustments from previous years' (activity, net peak demand and energy savings).	ā						
Table 3	LDC Realization Rates & NTGs	Provides LDC-specific initiative-level realization rates and net-to-gross ratios.	6						
Table 4	LDC Net Peak Demand Savings (MW)	Provides a portfolio level view of LDC achievement of net peak demand savings against OCB target.	z						
Table 5	LDC Net Energy Savings (GWh)	Provides a portfolio level view of LDC achievement of net energy savings against OEB target.	Z						
		rovince-Wide Data - (LDC Performance in Aggregate)							
Table 6	Provincial initiative and Program Level Net Savings	Provides province wide initiative level results (activity, net peak demand and energy savings, and how each initiative contributes to targets).	ā						
Table 7	Provincial Adjustments to Net Verified Results	Provides province-wide initiative level adjustments from previous years (activity, net peak demand and energy savings).	2						
Table 8	Provincial Realization Rates & NTGs	Provides province wide initiative level realization rates and net to gross ratios.	10						
Table 9	Provincial Net Peak Demand Savings (MW)	Provides a portfolio level view of provincial achievement of net peak demand savings against the OEB target.	ш						
Table 10	Provincial Net Energy Savings (GWh)	Provides a portfolio level view of achievement of provincial net energy savings against the OEB target.	ш						
		Appendix							
75	Methodology	Detailed descriptions of methods used for results.	12 10 2						
12	Reference Tables	Consumer Program allocation methodology.	22 to 2						
5	Glossary	Definitions for terms used throughout the report.	24						
Table 11	LDC Initiative and Program Level Gross Savings	Provides LDC-specific initiative-level results (gross peak demand and energy savings).	25						
Table 12	LDC Adjustments to Gross Verified Results	Provides LDC-specific initiative level adjustments from previous years (gross peak demand and energy savings).	26						
Table 13	Provincial Initiative and Program Level Gross Savings	Provides province-wide initiative-level results (gross peak demand and energy savings).	22						
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blaim     Mail     Notice	and the second	dame pro-	increment	etal Activity	Re untilled	Next In-	remental Peak	Domand Savin	p 0w0	No.	et lacrossental E	Program to Out a Welfied Program to Targe (excludes 0.8)				
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Definition provide         Definition         Definition <th< td=""><td>Harott</td><td>Projecti</td><td></td><td>-</td><td>2</td><td>-</td><td>1</td><td></td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td></th<>	Harott	Projecti		-	2	-	1		-	-	-					
Normal Program         Normal         Normal <th< td=""><td>Industrial Processor Votal</td><td>Paratan.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Industrial Processor Votal	Paratan.														
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None Available Program Tatal         None         <	Nome Assistance Program	Nomes			87	1		1	5.	8	- 0	3.822	55,464	1.976	6	141.297
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Count part Lighting         Prounds         B <td>Home Accietance Program</td> <td>Homey</td> <td></td> <td></td> <td>. 9</td> <td>8</td> <td>8</td> <td></td> <td>1</td> <td>8</td> <td>8</td> <td>. 2</td> <td>. e.</td> <td></td> <td>. 9</td> <td></td>	Home Accietance Program	Homey			. 9	8	8		1	8	8	. 2	. e.		. 9	
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Note that         Product	Tone of the Lewige	Pones.		-		1/4		- 2	-	1	-				10	
B         B         B         B         B         Apple threads to 2011 Varified Results         B         S, 2019         B         B         B         S, 2019         B         B         B         S, 2019         B         B         B         B         B         S, 2019         Contrast to 2011 Varified Results         Apple threads to 2011 Varified Results <td>Other Tetal</td> <td>Lideut</td> <td>_</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	Other Tetal	Lideut	_		-							1				
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Image: Designed in the construction research         XM         X	Accuments to 2012 Vermed Results							-	- 70		-	-	100,000	4,7,8		344,467
Energy Ifficiency Total         45         17         36         189         153,518         99,525         133,207         123,207         123         2,295,           Operand Response Tetal (Scenario 1)         8	Programments on 2013 Vermite Results	10	_	_	_	_		-		1.5			-	3/18	10	1,001
Demand Response Test (prevarie 1)         II         II         II         II         II         III         III         IIII         IIII         IIIIIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Energy Efficiency Total		-				- 15	110	34	1.00	153,548	499,556	193,815	323,197	315	2,295,308
Angustments to Previous Street, vermee Results Total         Image: Control of the Control of	Ormand Response Total (Scenario 1)									1	-				1	
Op/Enclosurements         Column (min.max/bit shiperterming)         Column (min.	Aquistments to Previous Years' Verified P	enants Total	-	_						10	10000	1,530	160,936	3,75	663	505,967
And the second s	Convictant/action LCC Portfolio Total (Inc.)	negustments)	L				0	1 194	N.	14	153,508	380,094	nujor.	10,65		3,316,6/1
instruction and a state of a state of the st	Automy and servings for Serving Response resources contracted areas barriers ( 2011) incontract, and (	the stack year reprinted	ense anorganism	at active facilities	ER BOIRS	-provider adjuster	one after from Popul	er of a stated						Full OEB Target:	\$90	4,520,000
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							70 C									
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And Provide a Price	Building.	-			-	<u> </u>	-		-		-		-			
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and Constantial Data and Enclosure	Concer	-				-				-						
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boriginal Program Total	1000		_		-								-			
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Service Concentration	Print				-				1		1					
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And Annual Control of the second	Trapers.	-						-	-			-	-			
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rogram Enabled Savings	Property			1				1.05		1.8				115		
ine-ch-lose Savings	Homes	-				1.1.1				9			-			
DC Pilota	Projects			1.0	-	1.1	. <u>R</u>	0	-	0		- E.	-		18	
Rher Total								115						1.0		
djustments to 2011 Verified Results	8	- 10 C					Ci norre d	-		1,316	Sec. 18		10.00	20 J. B	5,828	
djustments to 2012 Verified Results	15	1					28 28	1.000	1	1000	155,668	100 m	- <b>1</b>	28	508,992	
djustments to 2013 Verified Results		3					10 10 1	1.15	-	1000	A CONTRACTOR	5.76		135	1,051	
otal Adjustments to Provious Years' Verified	Amulta						- 28	1.0	a and	1,199	149,664	3/8	100	362	315,363	
Terty and serings for Semand Reasonse resources for as angle from all action facilities or devices contracted source spotted considerably:	dryww.expressed.the tensiety 1, 2011	Albumantana p Albumantana ini	reviewa pe pe d'anno Tabia 1 refinct pur	alta atopen in this mate d ear-ings in t	rtable will o the polar in a	et alige te adjustene Auch Oral adjustene	nte dissen in Tabl nt is verified.	le 1 authorships	alline pro a	nta d'above in terme	anting in the phylon	aantalian ye ar				

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			P	eak Dema	and Saving	1						Energy	Savings			
Initiative		Realizati	on Rate			Net-to-Gr	oss Ratio		<u> </u>	Realizatio	on Rate			Net-to-Gr	oss Ratio	
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	201
Consumer Program			<u> </u>				<u> </u>			·	·		i –		_	-
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	0.4
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	0.5
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	0.5
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	1.7
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	1.7
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/
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/:
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/
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/:
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	0.7
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	0.9
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/i
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/s
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/i
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/4
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/:
Demand Response 3	0.76	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	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/4						
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	1.0
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/4
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	0.5
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
0.0w								-							_	
Program Enabled Springer	ala	n/a	e/a	nla	e la	nla		0/2	n/a	n la		nla		n/a	nla	nt.
Time, of the Swines	n/a	n/a 0/2	nya elz	nya n/a	nya ela	nya n/a	nya a/a	nya n/a	nya e/a	nya n/a	nya n/a	nya n/a	nya n/a	nya n/z	nya n/z	n/4
unse-or-ose stamps	1/8	nya	inva .	nya	nya											

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Summary	Achies	ement	Against	CDM Ta	ngets
Contraction of the second s	and the second sec				

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)

Inclusion and allow Deviced		A	nnual	
Implementation Period	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
Veri	fied Net Annual P	eak Demand Saving	s Persisting in 2014:	0.5
Wellin	gton North Powe	er Inc. 2014 Annual (	CDM Capacity Target:	0.9
Verified Porti	on of Peak Dema	nd Savings Target A	chieved in 2014 (%):	51.6%

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

In allow a share the Dardard		A	nnual		Cumulative
Implementation Period	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
and the second s	00,007	Verified N	let Cumulative Energ	y Savings 2011-2014:	3.3
	Wellin	gton North Power I	nc. 2011-2014 Annual	CDM Energy Target:	4.5
	Verifie	d Portion of Cumula	tive Energy Target A	thieved in 2014 (%):	73.3%

Hincludes adjustments to previous years' verified results

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

Wellington North Power Inc.

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milative	unit	(new prog	increment tum activity acc reportio	tal Activity serving within t g period)	he specified	Net in Otome possi	convental Peak k demand sould specified rep	k Demand Savin up: from artikity porting period)	gi (KM) y within the	N (new energy s	et incremental i rvings from activ pr	inergy Savings (k dty within the sp mind)	wh) ecified reporting	Program to Date Well (embed 2014 Net Annual Peak Demond Looker Ant	ed Progress to Targ es DIO 2013-2014 Net Consulative Energ
	1	2011*	2012*	286.3*	285.4	2011	2012	201.9	2014	2011	2012	2013	2011	2614	Savings (KMA) 2014
Compared to 1 March	Terret			10.000	100.000	-		1 2242	1.245			1	A 497 444	-	
Applance Retrement	AppRender	36,110	34,144	31,952	1,645	8,379	2,813	1,438	1,1317	23,001,012	17424318	8,728,357	8,457,343	8,211	153,500,415
HAC Incention	Equipment	92,248	87,548	\$6,286	113,002	32,037	18,062	18,552	23,106	55,417,670	32,841,283	10,523,530	42,898,717	93,755	447,029,930
Concervation Instant Coupon Booklat	timi.	567.678	30,091	147,346	1,298,508	5,344	230	53.7	2,440	25,211,517	1,398,392	7,707,579	82.602.997	4,531	137,258,416
Ai-Annual Natalian Crient	(Tarit)	952,148	2,060,903	944,772	4,824,751	5,445	1,450	1,184	8.543	23,317,468	26,791,474	17,176,845	122,902,768	12,349	355,357,248
Auturlar Co-op	4 Mart 1	152	.0	9	1				.0	2,482		2			10,687
Recidential Demand Response	Oww.sec	18,558	.98,388	171,793	245,381	10,947	49,028	13,4 %	317,512	24,870	253,408	399,303	8,179	111,513	797,560
Recidential Center Contraction	Devices -	22	49,489	279	2367	-		14	165	243	12152	161,654	1.130.045	116	1.712.676
Consumer Program Total	CHARMEN ST		17 171			49.681	72.327	115.005	154.267	10326.940	25,296,859	70.049.007	212 518 325	28,322	1.112.508.545
Busiens Bagan			and the second second											100 CONT. 100	
NuR-OFE	Properts	2,828	6,401	8,746	10,925	24,457	43,147	19,678	70,447	\$14,002,258	314,922,468	345,346,018	862,303,525	213,499	2,435,401,228
Devel Install Uphing	Projects	20,741	18,631	\$7.833	23,784	23,724	15,254	38,708	25,419	41,876,703	\$3,345,798	\$4,313,338	84,503,302	78,304	604,176,658
Building Commissioning	building:			0	5	8		3	. 585		8		1,518,377	248	3,513,377
New Construction	Buildings	23		334	226	123	758	1,584	6,432	413,757	1,814,721	4,955,266	29,340,294	0,504	\$7,130,767
Crarge Audit	Audes	222	257	109	471		1,410	2,011	6,323		7,049,351	15,455,795	32,874,399	10,519	82,934,042
Small Commercial Demand Response	DEVICE	- 101	294	3,711	8,652		147	779	2,116	157	1,067	- 10)	- 117	610	1,314
Cam and Response 3	Facilitat	145	151	178	280	14,718	18,003	23,704	23,560	611.475	283,873	246,623		23.385	1.761.003
Business Program Total	Panoe	111	* **		407	64,617	34,221	107,261	111,119	198,128,258	348,455,238	418,423,459	666,176,125	832,768	1,758,409,887
Reported Program							-		-						
Photoes & System Upgrades	Properts			3	10		· 0.	294	3,692		0	2,693,764	72,010,255	5,501	77,198,782
Nontoing & Targeting	Projectio	- BC	1	1	8.1		0.1	- 0	190			1	902,517	101	502,517
Energy Manager	Proyerts	1	110	104	175	1	1,004	0.556	5,391	-	7,372,398	11,994,143	40,416,427	8,314	95,174,191
macora	Property	401		0	8	4,615	8.	0	9	38,844,943	1 1944 1955			4,611	135,462,292
Cemand Response 2	Penner	- 114	743	281	104	57,484	78,008	141,543	245,752	3,046,733	1,788,712	4,305,300	111 001 100	188,092	311000
(inconcisal Program Factor						37,010	73,00	100,000	1.11,999	11,540,217	1,1 10,100	L recention	10,907,00	.185,168	250,725,088
Home desistance Program	-4245.81	44	5,820	23,458	25,424	2	566	1 2,942	2.466	29,283	5,443.292	20,947,275	18,542,458	5,378	77,510,871
Home Assistance Program Total		1.				2	596	2,161	2,466	19,283	5,442,232	20,987,275	19,582,658	5,378	77,539,571
Admitained Program	- 12	1 (A)		-			<u> </u>				11. J		1.		
Home Assistance Program	Horal	1	- 4	717	1,125		- R.	26.7	549		.0	1,629,193	8,511,207	43.6	6,315,993
Dead relations	Projects			2	1	-						1		2	. 1
Aborignal Program Total								267	. 549			1,609,993	1,111,240	854	4,113,993
The 2411 Program ( second second second	and the second s	2.016			1	31.623		1				1		31.441	49.4 551 675
California and a second second second	Troperty .	103		14		21,092	1.001		114	36 100,007	11,003,004	1411.140	000 210	21,863	484,552,878
Toronto Comprehensive	Projects	317	15	4	8	15,805	0	0	281	16,364,854	8	E CARAGE	2,479,645	16.016	156,129,145
Multifuently Energy Efficiency Rebutes	Projects	110	8			1.995				7.595.689	0		1	1,892	30, 292, 793
LDC Custom Programs	Properts		4	10	1	193				1.167.178	.0	ŧ		399	1.468.679
Pro-2011 Programs completed in 2011 Tor	tal l	0				44,945	3,251	m	-0.5	243,251,550	\$1,903,944	1,522,269	1,149,578	49,392	1,018,825,088
CORRECTO		1													
Program Enabled Savings	Properts	11	TI	44	43	1	2,304	8,492	5,511		1,148,362	4,075,392	15,635,307	11,494	00,715,187
Time-of-Use Seringi	(momas)		- 0.		n/a	1	0.1	0	\$4,795	0	8	-	1	54,795	
LDC Plots	Proyerts			0	1.174		0.	0	1.170	0		1	5.861,523	1,170	5.841,922
Other Total		<u></u>					7,304	1,692	\$3,466		1,100,362	4,675,382	24,096,058	67,662	15,812,99
Adjustments to 2011 Verified Results		1		_			1,000	841	3,418		00,007,000	1,736,301	. KAURANT -	6235	1.04,143,558
Adjustments to 2012 Verified Results		1					10.0	6,768	9,221		1	41,947,848	17,880,755	15,881	238,788,437
Adjustments to 2013 Verified Results		J		_			1		24,391		1		150,705,808	24,991	296,865,211
Energy Efficiency Total						136,618	189,191	117,536	224,857	683,144,419	482,474,405	\$54,528,447	9/5,619,300	575,447	5,896,982,612
Demand Response Total (Scenario 1)						79,733	142,678	200,099	385,091	3,739,385	2,427,813	5,848,895	8,648	309,091	11,771,309
Aquistments to Previous Years' Verified R	esuits Total					0	1,406	6,961	35,630		10,409,001	43,684,771	195,185,888	43,896	645,389,397
CPW-Contracted LDC Portfolio Total (Inc.)	(apustment)	J				216,143	101,001	101,536	568,578	306,003,684	260,588,526	1.001250343	1,170,033,070	927,745	6,557,993,397
Activity and anong this Damand Responder resolution contracted anone tangents 1, 2013 (responded consulta-	for each year represent abil	the samplifican all	a fee facilita a se	devices.	Probable adjuance	ett aller find Repa	Unerstand	1	1000			1.19	Full OEB Target	1,330,000	\$,000,000,000
and the second strength day of the second					permitance of 2 ve	A number of some states of some states of the source of th	· salarative and	and reported the	order fight is	% of F	ull OEB Target	Achieved to D	ete (Scenario 1)	70%	509%

initiation	Unit	(new program	Incremental activity accurs reporting p	Autivity ing within the ected)	specified	Net locres (new peak de	nextal Peak De mand savings S pecified reports	mand Louings (KMO) one articity within the ng period)	Not to	remended (new rgy seeings from position) report	gy Savings (KVM) 6 arthaity within I ing period)	3.4	Program to Date Well (record 2014 Net Annual Prok	ied Progress to Targe ies BIG 2013 2014 Net Consultative Target
		2017	20027	201.2*	2014	2951	2012	2013 2014	2011	2952	200	2814	Demand Savings (KM) 205.4	Savings (kVM) 2014
The same from the same	-		1					10					y	
Applance hate secent	Applarices						3		- 3		0		1	
Appliance Exchange	Appliances			4	-	-		4 000	.0					
dvilač incentives	Loning	11,133	2,219	4,755	-	4170	479	1,037	4,707,802	105,517	1,030,400	- 11	-8,754	-32,384,854
conservation initiat coupon boated	Dans.	8,318		1.000		18			2/1.415		18.8.0	- 11	12	1,149,763
Busice of the second seco	- Carris	autor.			-	100			4,000,000		-			9,785,762
Resident of Frances Resources	Center	1				-			1					
Recidential them and Recornice (HD)	Oevices	4		4			0	4	0		4			8
Residental New Construction	Homes	20	1	199		1	1.	22	14,867	985	441,739		74	741,497
Consumer Program Total	100014	1000		10.156.50	1	-5,545	490	1,151	7,213,298	956,497	2,398,937		-0,595	-25,664,975
Entrance Program				-				A CONTRACTOR OF					New York Concerning of the	
Nerrofit	Projects	312	876	941		3,208	7,211	31,945	16,166,129	43,494,012	-76,146,200		22,054	847,545,386
Direct Wohell Lighting	Projects	444	197	51		542	204	46	1,355,399	716,541	364,647		630	3.556.349
Building Commissioning	8utdrop		3	4		1	3	4			0.0			
New Construction	auking:	-15	. 29	71		1%	1,104	3,245	1,614,553	4,815,774	0,636,179		4,401	#6.157,236
Energy Audit	Autti	119	77	179		404	419	2,103	2,545,189	2,145,367	11,100,615		1,404	46,41,8,3.29
Small Commercial Den and Response	Decisi					-								
Small Commerciel Deniend Response (HEI)	Devices		-			<u> </u>	-	-						
Regiment Persperson a	protects		1		-	5.162		10.010	24 844 258	54 205 714	100 047 141		10.101	
				_	_	2,180	1 6,191	- tears	100020	1 202010 10	L 100340 Mill		10,00	10.000
Process & Sultain Upgrades	Projects			2				104			368.639		274	1.917.110
Montoring & Targeting	Projecta		1	1				58	1	\$28,000	6379,3A8		54	3,863,496
Energy Manager	Projects	. 1	94	101		27	1,047	2,395	341,515	8,264,843	25.404,852		6.341	01.055.409
Ratirofit	Property	1.1		4			-8	4	.0		8.		1	
Demand Response 3	Facilities	1.1			1	C Root I	0	1.1.1.1	- 18.00	0.000000000	「日本の単ない」		1 0 4 0 1 h	100 B 100 C
Industrial Program Total	2002000				111	21	1,867	2,374	241,585	8,254,841	27,422,868		4,723	\$5,215,515
Dome Attended Program		(				1	Contraction of the	ter and day and the						
Home Assistance Program	Homes	-	847	2,818	-		222	791	0	1,306,249	4,321,794		1,009	12,515,300
Home Assistance Program Total	Construction of the		1	NAL CINCLE			222	22.296		1,354,749	4,323,798		1,009	8,541,377
New grad Program						a second		100000 000	-		Contraction of the Party		No. of Concession, Name	
Home Ausstance Program	PADE-RI			1.11	-	-		134			563,715	- 11	334	1.127.499
Direct Initial Lighting	Priparts	<u> </u>		1 1	-	<u> </u>	-							
Aborignal Program Jotal					_			104			540,715		1.94	1,177,418
Par 2013. Programs recepted as 2011	1				-	1.14			had a be		-		111	
Lab Battan and here Contraction	Property	- 14			-	1.617	24.2	114	7 198 541	1 411 411			1.00	16 106 170
Tanaka Concentration	Trought		14	1	-	1.001	621	185	1.000.001	4.573.517	1,116,004		157	14,214,322
Automotive States and Andrews	Troat	1			-				1	-	1,000,000			5
LDC Gutter Programs	Proveda					1			0					
Pre-2011 Programs completed in 2011 Total			1. 11. 19.		-	1.645	1.815	1	2364,477	1.156.050	18.797		2.602	11,004,528
			a water of								1			
Program Enabled Savings	Property	31	91	10	_	1,776	3,712	2,078	7,727,579	11,491,487	10,488,544		7,509	85,792,481
Time-of-Oue Taxings	Homer	0		4			0		0		8			0
LDC Plots	Prosents			1				4	4		4			
Other Total					-	1,776	1,712	2,829	1,777,579	11,481,687	10,000,764		7,569	86,732,681
Advantagements for Well Manified Results					_	2.445			CIT THE S IS				1 115	100 141 550
Adjustments to 2012 Verified Reads							15.697	-	- Colonical	88,111,558			13,691	218,788,627
Adjustments to 2013 Verified Results		1				1		23,463			10.475,401		24,391	299,495,211
Adjustments to Previous Years' Verified Results Tata	4 ()	5				1,445	15,897	22,462	11,140,315	88,111,558	145,679,881		#1,006	645,389,397
Activity and namoginal Samand Regions resource for each year from all other facilities or devices contracted area. Instany 1, 201	represent the sinkings (insported consulatively)	Adjustments to Adjustments to	provinsia yatarti m Tablie 1 refect pe	suite departs in the	the fulfile with	net sign to sign which that signs	hanni yərifad	alda ) ao ika orfornadar	presented above to	parando d'in Mari	is pleine stativer yet			

				Peak Dema	ind Savings							Energy	Savings			
Initiative		Realiza	tion Rate			Net-to-Gr	oss Ratio			Realizatio	on Rate			Net-to-Gro	ss Ratio	
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program					1									<u> </u>		
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
IVAC 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	0.4
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	1.7
Si-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	1.7
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
kesidential 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
desidential 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	0.6
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	0.73
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	0.9
Suilding 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	0.5
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	0.6
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/4
imall 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	0.8
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
inergy 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	0.8
Setrofit .	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/4
Home Assistance Program																
forne Assistance Program	1.00	0.32	0.26	0.49	0.70	1.00	1.00	1.00	0.32	0.99	88.0	0.78	1.00	1.00	1.00	1.0
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/4
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/i
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	0.5
Foronto Comorehensive	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/2
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/s
DC 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/s
Nthee					1											
From Enabled Stations	n/-	1.06	1.00	0.96	nta	1.00	1.00	1.00	n/a	2.26	1.00	0.98	n/a	1.00	1.00	1.0
Togram chapted savings	n/a	1740	1.44	0.86	nya	1.64	1.44	1.44	nya –	2.20	1.44	0.36	n/a	1.64	1.04	1 1.04
Time of the Endow	als	a la	n la	ala.	n/a	a la	a la	els.	n la	n/a	n/a	ala	n/a	n la	n fa	n la

2011-2014 Final Results Report

S	ummary Provi	ncial Progress 1	owards CDM Ta	argets		
Table 9: Provir	nce-Wide Net I	Peak Demand S	avings at the En	d User Level (N	/W)	
		Anr	nual			
Implementation Period	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		
ZU141 Veri	fied Net Annua	Peak Demand	34.2 Savings in 2014:	927.7		
ven	20	14 Annual CDM (	Capacity Target:	1,330		
Verified Portion of Peak	Demand Saving	gs Target Achieve	ed in 2014 (%):	69.8%		
Table 10: Dr	avinco Mido N	lat France Caude	age at the End II	cost and (CW)		
Table 10: FI	ovince-wide n	ver chergy bave	ings at the End-O	Sei Levei (Gwi	<b>'</b>	
Implementation Period		Anr	nual		Cumulative	
2011	2011	2012	2013	2014	2011-2014	
2011	19.7	503.0 503.6	498.4	582.3	2,393.1	
20121	1.7	44.4	603.3	583.4	1,232.8	
2014	7.3	44.8	191.0	1,170.8	1,413.9	
2024.						
2014	Ver	ified Net Cumula	ative Energy Savir	ngs 2011-2014:	6,553.0	
Veri fincludes adjustments to previous yea Results presented using scenario 1 wh	Ver fied Portion of rs' verified results ich assumes that d	ified Net Cumula 2011-2014 ( Cumulative Ener emond response reso	ative Energy Savir Cumulative CDM gy Target Achieve wrces have a persiste	ngs 2011-2014: Energy Target: ed in 2014 (%): nce of 1 year	6,553.0 6,000 109.2%	
Veri fincludes adjustments to previous yea Results presented using scenario 1 wh	Ver fied Portion of rs' verified results ich assumes that d	ified Net Cumula 2011-2014 ( Cumulative Ener emond response reso	ative Energy Savir Cumulative CDM gy Target Achieve wurces have a persister	ngs 2011-2014: Energy Target: ed in 2014 (%): nce of 1 year	6,553.0 6,000 109.2%	

		METHODOLOGY	
All results are at	the end-user level (not including transmis	ssion and distribution losses)	
	e1	EQUATIONS	
Prescriptive Measures and Projects	Gross Savings = Activity * Per Unit Assumption Net Savings = Gross Savings * Net-to-Gross Rat All savings are annualized (i.e. the savings are	io the same regardless of time of year a project wa	is completed or measure installed)
Engineered and Custom Projects	Gross Savings = Reported Savings * Realization Net Savings = Gross Savings * Net-to-Gross Rat All savings are annualized (i.e. the savings are	Rate io the same regardless of time of year a project wa	is completed or measure installed)
Demand Response	Peak Demand: Gross Savings = Net Savings = co Energy: Gross Savings = Net Savings = provincia All savings are annualized (i.e. the savings are	ontracted MW at contributor level * Provincial c al ex post energy savings * LDC proportion of tot the same regardless of the time of year a partici	ontracted to ex ante ratio tal provincial contracted MW pant began offering DR)
Adjustments to Previous Years' Verified Results	All variances from the Final Annual Results Rep data lag, and calculations etc., will be made wit	orts from prior years will be adjusted within this r hin this report. Considers the cumulative effect o	eport. Any variances with regards to projects counts, of energy savings.
Adjustments to Previous Years' Verified Results Initiative	All variances from the Final Annual Results Rep data lag, and calculations etc., will be made wit Attributing Savings to LDCs	orts from prior years will be adjusted within this r hin this report. Considers the cumulative effect o Savings 'start' Date	eport. Any variances with regards to projects counts, of energy savings. Calculating Resource Savings
Adjustments to Previous Years' Verified Results Initiative Consumer Program	All variances from the Final Annual Results Rep data lag, and calculations etc., will be made wit Attributing Savings to LDCs	orts from prior years will be adjusted within this r hin this report. Considers the cumulative effect o Savings 'start' Date	eport. Any variances with regards to projects counts, of energy savings. Calculating Resource Savings
Adjustments to Previous Years' Verified Results Initiative Consumer Program Appliance Retirement	All variances from the Final Annual Results Repu data lag, and calculations etc., will be made with Attributing Savings to LDCs Attributing Savings to LDCs 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.	orts from prior years will be adjusted within this r hin this report. Considers the cumulative effect o Savings 'start' Date Savings are considered to begin in the year the appliance is picked up.	eport. Any variances with regards to projects counts, of energy savings. Calculating Resource Savings Peak demand and energy savings are determined
Adjustments to Previous Years' Verified Results Initiative Consumer Program Appliance Retirement Appliance Exchange	All variances from the Final Annual Results Repr data lag, and calculations etc., will be made with Attributing Savings to LDCs Attributing Savings to LDCs 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. 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.	orts from prior years will be adjusted within this r hin this report. Considers the cumulative effect o Savings 'start' Date Savings are considered to begin in the year the appliance is picked up. Savings are considered to begin in the year that the exchange event occurred.	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.

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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
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.	into account net-to-gross factors such as free- ridership and spillover (net) at the measure level.
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' <sup>w</sup> 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

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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 tha 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 a 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 b projects with an "Actual Project Completion Da	l ny filtering out invalid statuses (e.g. Post-Project S ite* in 2014)	I iubmission - Payment denied by LDC) and only including

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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
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.	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 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 <sup>™</sup> 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 o activations in the year. Savings are assumed to persi for only 1 year, reflecting that savings will only occu 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 o the load reduction capability that can be expected for the purposes of planning. The ex ante estimates fact 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 result of activations in the year. Savings are assumed to persist for 1 year, reflecting that savings will not occ 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 we actually installed vs. what was reported) (gross). Ner savings takes into account net-to-gross factors such free-ridership and spillover (net).

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Monitoring & 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. Here a completed is a completed in the application. Results are directly attributed to LDC based on the incentive project was completed. Results are directly attributed to LDC based on the incentive project was completed. Results are directly attributed to LDC based on the incentive project was completed. Results are directly attributed to LDC based on the incentive project was completed. Results are directly attributed to LDC based on the incentive project was completed. Results are attally realized (i.e. how many light but actually installed vs. what was reported) (gross savings takes into account net-to-gross factors).	ed by ed align at s were
free-ridership and spillover (net).	). Net such as
inergy Manager Results are directly attributed to LDC based on LDC identified in the application. Savings are considered to begin in the year in LDC identified in the application. Savings are considered to begin in the year in the total savings from a given project as report (reported). A realization rate is applied to the manager. If no date is specified the savings will begin the year of the Quarterly Report submitted by the energy manager. Savings takes into account net-to-gross factors free-ridership and spillover (net).	ed by ed align at s were ). Net such as

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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 facto 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.

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Home Assistance Pr	rogram		
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			
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			
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	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.			
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.	which a project was completed.	provincial results from the 2010 evaluated results (http://www.powerauthority.on.ca/evaluation- measurement-and-verification/evaluation-reports).			

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Multifamily Energy Efficiency RebatesResults 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.Peak demand and energy savings are determined the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings at were actually realized (i.e. how many light bulbs actually installed vs. what was reported) (gross). savings takes into account net-to-gross factors si free-ridership and spillover (net). If energy saving savings takes into account net-to-gross factors si free-ridership and spillover (net). If energy saving savings takes into account net. resorted in 2011, assumptions as per 2009 evaluation.Savings are considered to begin in the year in which a project was completed.Peak demand and energy savings are determined the total savings to ensure that these savings that were actually realized (i.e. how many light bulbs actually installed vs. what was reported) (gross). savings takes into account net-to-gross factors si free-ridership and spillover (net). If energy saving verauted results from the 201 evaluated results (http://www.powerauthority.on.ca/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- measurement-and-verification/evaluation- reported	Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Data Centre       Program run exclusively in PowerStream Inc.       Savings are considered to begin in the year in write EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs).         Incentive Program       Savings are considered to begin in the year in 2011, assumptions as per 2009 evaluation.       Savings are considered to begin in the year in which a project was completed.       Savings the year in the year in which a project was completed.         EnWin Green Suites       Program run exclusively in ENWIN Utilities Ltd.       Savings the year in year in the year in the year in the year in the year in a spinore (net). If energy saving not available, an estimate is made based on the to kW ratio in the provincial results from the 201 evaluated results         EnWin Green Suites       Program run exclusively in ENWIN Utilities Ltd.       Savings are considered to begin in the year in the y	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.		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
EnWin Green Suites EnWin Green S	Data Centre Incentive Program	Program run exclusively in PowerStream Inc. service territory; Initiative was not evaluated in 2011, assumptions as per 2009 evaluation.	Savings are considered to begin in the year in which a project was completed.	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
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.		evaluated results (http://www.powerauthority.on.ca/evaluation- measurement-and-verification/evaluation-reports).
evaluation.		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 deman from new program activ	nd or energy savings that occur in a given year (includes resource savings rity and resource savings persisting from previous years).	
Cumulative Energy Savin defined period (in the co not apply to peak dema	ngs: represents the sum of the annual energy savings that accrue over a ontext of this report the defined period is 2011 - 2014). This concept does nd savings.	
End-User Level: resource the generator level (the	e savings in this report are measured at the customer level as opposed to difference being line losses).	
Free-ridership: the perco or practice in the absence	entage of participants who would have implemented the program measure te of the program.	
Incremental: the new re period based on when t	source savings attributable to activity procured in a particular reporting he savings are considered to 'start'.	
Initiative: a Conservation customer end-use (i.e. R	n & Demand Management offering focusing on a particular opportunity or etrofit, Fridge & Freezer Pickup).	
Net-to-Gross Ratio: The as free-ridership and sp	ratio of net savings to gross savings, which takes into account factors such illover	
Net Energy Savings (MW activities net of free-ride	Vh): energy savings attributable to conservation and demand management ers, etc.	
Net Peak Demand Savin management activities	gs (MW): peak demand savings attributable to conservation and demand net of free-riders, etc.	
Program: a group of init	iatives that target a particular market sector (e.g. Consumer, Industrial).	
Realization Rate: A comp reported savings which i	parison of observed or measured (evaluated) information to original is used to adjust the gross savings estimates.	
Settlement Account: the agreement	grouping of demand response facilities (contributors) into one contractual	
Spillover: Reductions in efficiency program, beyo participant and/or non-p	energy consumption and/or demand caused by the presence of the energy and the program-related gross savings of the participants. There can be participant spillover.	
Unit: for a specific initia appliances picked up, pr	tive the relevant type of activity acquired in the market place (i.e. rojects completed, coupons redeemed).	

initiative	Unit	(term p	Gross Incremental Per suk demand savings from activ	ak Demand Savings (KM) Ry within the specified rep	erting period)	(100	Gross Incrementa or energy savings from activity	Energy Savings (KVM) within the specified reporting	period)
		2011	2012	2013	2014	2011	200.2	2013	2014
Consumer Program									
Appliance Retirement**	Apphances	7	5	6	7	49,202	38,126	35,058	41,146
Appliance Exchange**	Appliances	0	2	0	0	679	4,034	0	79.2
HVAC Incentives	Coupment	17	18	13	13	34,419	33,492	24,473	24,970
Conservation Instant Coupon Booklet	itens	1	¢	0	1	10,669	839	4,327	10,627
Bi-Jonual Retailer Event	items		1	1	1	17,012	18,481	10,399	44,412
Ratailar Co-op	items		0	•		-	-		0
Residential Cemand Response	Devices			0	1	-		0	0
Residential New Construction	Devices		0			-			
Consumer Program Total	Provine	24	24	29	17	112,01	95173	78,257	126.278
Business Program	_								
Fatrofit	Projects	1	116	20	42	2,921	412,006	98,729	134,623
Direct Install Lighting	Projects	27	35	0	25	80,758	129,553	15,725	\$8,237
Building Commissioning	Buildings	0	0	0	0	0	0	0	0
New Construction	Buildings	0	Ú.	0	0	â	0	0	0
Energy Audit	Audts	0	0	. 0	0	0	0	0	0
Small Commercial Demand Response	Orevices	0	0	0	1	0	0	0	0
Small Commercial Demand Response (HD)	Orevices	0	0	0	0	0	0	0	đ
Demand Response 3	Facilities	0	0	0	0	0	0	0	0
Dusiness Program Total			1 1/1		60	0,01	540,559	124,454	232,898
Process & System Linewater.	Property								
Monitoring & Targeting	Projects	1	0	0		1		0	0
Energy Manager	Projects		0	0		1	0	0	0
Retroft	Projects	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	0	0	0	0	0	0	0	0
Industrial Program Total			6						
Home Accidance Program									
Home Accistance Program	Homes	0	1	1	0	0	9,542	15,404	1,976
Home Assistance Program Total		<u> </u>	1	,			9,542	55,494	1,576
Montechnel Programs	Barrenet.								
Fired Install Listing	Projects		6	0	1	1		0	
Aboriginal Program Total									
Proc. 2011 E. Progenie a comparison of the 2011							1		
Destricity Retroft Incentive Program	Projects	0	0	0	0	0		0	0
High Performance New Construction	Projects	0	0	0	0	554	134	0	0
Tononto Comprehensive	Projects	0	0	0	0	0		0	0
Multifamily Energy Efficiency Rebetes	Projects	.0	0	0	.0	0	0	0	0
LDC Outom Programs	Projects	0	0	ů.	0	ů.	0	0	â
Pre-2011 Programs completed in 2011 To	stal					554	138		
other									
Program Enabled Savings	Projects	0	0	0	0	0	0	0	0
Time-of-Use Savings	Homes	0	0	0	18	0		0	0
LDC Priots	Projects	0	0	0	0	0	0	0	0
Other Total		•		0	30				0
Adjustments to 2011 Verified Results			4				837		0
Adjustments to 2012 Verified Results				42	2			258,882	8,728
Adjustments to 2013 Verified Results					136				1,103
Energy Efficiency Total		53	198	50	130	196,316	645,413	258,194	361,113
Domand Response Total					3				
Adjustments to Previous Years' Verified	Results Total		4	42	137		837	254,882	9,810
OPA-Contracted LDC Portfolio Total (inc.	Adjustments)	53	197	95	270	196,316	606,250	517,876	370,944
the second se	after each year	*Includes adjustments after Final	Reports were lowed				Gross results are presented for int	formational purposes only and are not	considered official 2004 Feat
Activity and samilator bemand testional resource							Results		

Initiative	Unit	G (new peak deman	race incremental Pea d savings from activi	ik Demand Savings ( by within the specifi	IW) of reporting period)	(new energy sa	Grass Incremental I wings from activity s	Energy Savings (KMM eithin the specified	) reporting period)
		2011	2012	2013	2014	2011	2012	2013	2054
Consumer Program									
Appliance Retirement	Appliances	0	0	0		0	0	0	
Appliance Exchange	Appliances	0	0	0		0	0	0	
MACINERTINES	Equipment		0	1		-1,672	11	1,090	
Conservation Instant Coupon Dooknet	tens .		0			1.621	0		
Retailer Co.op	Itens	0	ů	0		0	ů,	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		-4	0	1			- 11	1,100	
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	
Design Low Mercus Demand Helponia (PE)	Facilities	0	0	0		0	0	0	
Business Program Total	P BOOK NYS	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	
noustrial Program Total			0	<u> </u>		<u> </u>	0	<u> </u>	· · · · ·
Home Assistance Program	Homes	0	0	0		0	0.720	0	1
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	
Pre-2011 Programs completed in 2011	Designation								1
creativity records incentive Program	Projects	-	0			0	0	-	
Toronto Comprehensive	Projects		0	0		0	ő	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	
Direct Testal	Projects	-	0	0			0		-
			-	199			-	-	
Adjustments to 2011 Verified Results		4	0			837	267.610		
Adjustments to 2013 Verified Results			44	106			267 (616	1,300	
Total Adjustments to Previous Years' Verified Result	1	4	42	136		837	267,610	1,109	
Activity and savings for Demand Response resources for each yes savings from all active facilities of devices contracted since Janua reported comulatively.	er represent the ry 1, 2141	Gross results are project are not considered offici	ted for informational purp al 2054 Final Verffe (Tess	consorty and As					

Miliation	tealt		Gran has most of the	A Demand Looker Dist.	· · · · · · · · · · · · · · · · · · ·	Company and Description (1997)				
		(now peak demand saving from activity within the uper lind reporting period)				(new energy savings from activity within the sporting reporting period)				
	_	291.1	2012	813	2814	280.	2012	- 2003	2814	
Appliance Refinement**	apphances	6,750	2,011	4315	1.579	45,975,627	15,424,513	16.616.719	20.315,770	
Appliance Eschange**	Appliances	71.9	536	2,111	2.319	#75.531	974,421	9,744,594	0.000.372	
HVAC Incentives	Equipment	\$1,209	30,346	40,418	48,467	99,413,490	64,925,213	75,325,617	10,274,814	
Concervation Instant Coupon Bookhat	dani()	2,594	210	AG4	1,442	18,192,453	2,825,898	6,843,344	19,000,254	
to-Averaged Retailer Exert	Rams.	1,514	1,422	3,542	4,625	26,639,265	29,222,072	26.441,929	79,254,471	
Retailer Co-op	Rams.	-				3,817	0	0	6	
Recidence Centeral Response	Devices.	10,196	-0,210	31,076	117,513	10,597	155,401	110,303	LIN	
Recipient of these Constantions	LAND 41		1	14	449	2.812	4114	124.416	1,433,746	
Consumer Program Total	1	11.07	11,805	149,399	178,452	192,379,610	117,748,413	117.521.004	207.543,846	
Replaces Praglade			a data a secondaria da			Constanting of the	Sales Sections	Contraction of the second		
Retricte	Projects	14,111	79,543	82,896	91,149	184,070,263	107,017,248	478,403,896	\$42,515,471	
Direct Initial Lighting	Projects	22,555	21,469	25,007	24,794	\$5,777,297	68,896,046	68,540,249	\$9,526,509	
Buckling Commissioning	Buttitrip		. 0		914				1,953,377	
New Construction	Buildings	247	1,516	2,934	11,911	823,434	3,755,869	3,143,824	37,742,970	
Charge Audit	JAUGRI -	4	1,610	4,213	9,867		7,549,351	23,384,214	46,011,517	
Small Commercial Demand Regionse	Devices	50	147	m	2,116	101	1,00	270	10	
from and References 3	facilitat	21 244	11.141	-11.04	11,104	100.000	340.473	100.000		
Business Program Total		76,068	172,854	134,399	171,495	251,381,448	467,881,496	579,468,015	817,313,333	
NAME OF TAXABLE		1				1				
Process & System Upgrades	Projects	0.1		153	13,297	.1		2,710,765	90,613,637	
Montoring & Targeting	Properts	0.1		1	147			. F.	302,517	
Energy Manager	Properts	0.	1,014	8,353	5,367		2,067,535	24,408,070	44,925,368	
Retroft	Properts	6,372		1	1	38,812.609	.8		1	
Demand Response 8	railities	174,148	74,014	143,548	166,093	4,243,938	3,794,712	4,309,540		
trater in the grant fater		141,557	1 75,000	1 100,000	1 100210	U.S.W., 100	L Chicker	1.746,878	1 TROPPLIN	
nome Assistance Program	Phone and	4	1.777	2.361	2.464	96.318	5,524,230	26.967.275	18.581.650	
Home Assistance Program Total	102-111-1		1,777	2,361	2,666	56,319	5,524,238	39,567,375	19,582,658	
Abungled Program	Weather			5	<u>i - 1914 - 1</u>	and the second second			1	
Nome-AutoRance Program	Homex		D	267	549	8	.0	1,605,383	3,125,207	
Ornett Install Lighting	Projecta	0.		0.0	0	0	0	0		
Aboriginal Program Total				26.7	548		1 ( <b>1</b> )	1,449,193	5,341,267	
For 2011 Tringlater Induction (scille)	a standard and a standard a					22 With the			-	
Destructly Retroft Incentive Program	Properts	40,458	- 9	4	0	273,956,293	0			
righ Performance New Construction	Properts	10,197	6,510	772	264	52,975,389	21,493,449	3,512,340	1,377,475	
Foronto comprehensive	Projects	15,467			802	174.870,874		-	7,095,257	
Number of the second se	Projects	2,553	4		-	2,734,755			-	
Free 2011 Programs cornelated in 2011 T-	tal	87.369	6.565	112	1.879	410.822.875	21.001.000	3,522,248	8.862.733	
					1,000	100,000,000	1.000.000	4,012.4	1 4,441,577	
Evolution Evolution Saleston	Property		2.172	1.692	5.520		\$25,811	4175.392	13,015,117	
Time-of-Alte Savings	140/140		8	1	14,795	1	8	0	8	
LDC Wets	Projecta.	8.1			1.370		0		9,0(1,522	
Other Total		10 N	2,177	3,692	68,296		525,811	4,075,902	19,035,137	
Adjustments to 2011 Verified Results			11,246	HS	1,001		48,795,294	76,581	8,879	
Adjustments to 2012 Verified Results				0,612	13,469	8	1	54,303,873	59,096,910	
Adjustments to 2013 Verified Results					34,707	St 17	10 17	N	206,413,558	
Energy Efficiency Total		213,305	156,775	100,503	289,384	942,317,539	666,778,385	753,083,966	1,718,825,044	
Domend Response Total		294,015	142,678	290,099	309,091	4,991,107	2,427,811	5,846,415	8,458	
Adjustments to Previous Years' Verified Results Total		<ul> <li>B(1)</li> </ul>	11,246	8,277	49,377		48,295,294	54,382,424	265,518,225	
Adjustments to Previous Fears Venneo P									the second se	

2011-2014 Final Results Report

Initiative	Unit	Gross Incremental Peak Demand Studings (SW) (new peak demand savings from activity within the specified reporting period)				Grass Incremental Energy Savings (XMb) (new energy ravings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Coreumer Program									_
Appliance Ratirement	Appl ances	0	0	0	_	0	0	0	-
Appliance Exchange	Apphances	0	0	0	-	0	0	0	-
M/AC Incentives	Equipment	-8,759	1,091	2,157	-	-16.241,006	1,952,473	3,873,449	-
Conservation Instant Coupon Booklet	itens	15	0	1	-	255,975	0	20,668	-
B-Annual Retailer Event	Itens	117	0	0	-	2,373,636	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 (PID)	Devices	0	0	0		0	0	0	-
Residential New Construction	Plomes	4.678	1 092	115		330,093	2,029	701,498	-
Consumer Program rotal		4,628	1,092	2,278	_	-13,283,462	1,994,489	4,595,605	_
Determine and the second	Regiments	4.611	10.114	12.014	_	22.046.021	58 538 385	100.677.674	-
Paur lar all Lakraa	Projects	4,511	10,114	10,004		1 346 618	36,526,789	174,677,566	-
An Adapt Comparison of the second sec	P-sidents	341		49	-	1,146,635	/01/030	1/4,450	-
New Construction	Buildear	3.347	2.623	4151		11.323.592	9,894,305	15,992,924	-
Frank Audit	Audes	4.66	488	3.631		2,361,744	2,004,000	18,822,524	-
Small Commercial Demand Remonse	Devices	0	400	0		0.000	0	0	-
Ser all Commercial Demand Response (HE)	Devices	0		0	-		0	0	-
Demand Resource 3	Facilities	0	0	0		0	0	0	-
Business Program Total		1,596	18,491	24,454		37,108,896	71,581,825	144,667,473	-
Industrial Program			1	1 1000			1	1	-
Process & System Usar ades	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	-
Rutsufe	Projects	0	0	0		0	0	0	-
Demand Response 3	Facilities	0	0	0		0	0	0	-
Industrial Program Total		29	1,071	3,568		0	9,496,007	30,765,729	-
Home Accistories Program					<u> </u>				<u> </u>
Home Assistance Program	Homes	0	222	791		0	1,306,749	4,321,794	
Home Assistance Program Total		0	222	791		0	1,316,749	4,321,794	
Abortginal 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	194		0	0	\$63,715	
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	266	0	0		1,049,108	0	0	
High Perform ance 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	
Multifamily Energy Efficiency Rebittes	Projects	0	0	0		0	0	0	
LDC Custom Programs	Projects	0	0	0		0	0	0	
Pre-2011 Programs completed in 2011 Total		13,397	2,647	934		24,954,771	18,589,400	5,319,013	
Dthar									-
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	8,712	2,620		1,673,712	11,481,687	30,688,564	1
A discontemporte to 2001 Machined Resource		15.511		-	+	ED ASS OUT	-	-	1
A diversion to 10 2011 Verified Results		10,011	97.786			00,000,000	114 419 457		-
A dualments to 2018 Verified Reads			14,000	23.714			104,419,002	200,921,882	
Adjustments to Previous Years' Verified Results Total		16.611	22.286	10.714		50 455 967	114 419 417	200,921,892	-
Activity and payings for Damand Responded Association for each user	present the sector	Tituludes adjustments where its	Intel and the second second	20,000		Conservation and property of the	informational memory with the	of any not complete the first of	La Peral
Accord and savings for clement response resources for each year in from all active facilities or devices contracted since January 1, 2013 cumulatively).	reported	Results presented using sterne	no 1 which assumes that deman	d response resources have a pr	esitera il	Verfiel/Results	monificial populations only a	e we not considere a official 20	of the second