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August 18, 2015

Ontario Energy Board
P.O. Box 2319
27th Floor
2300 Yonge Street
Toronto, Ontario
M4P 1E4

Attention: Ms. Kirsten Walli, Board Secretary

Dear Ms Walli:

**Re: Re: January 1, 2016 Cost of Service Rate Application / EB-2015-0108 –
Responses to VECC Technical Conference Questions**

Waterloo North Hydro Inc. (WNH) is filing its responses to the Technical Conference Questions of VECC.

WNH has filed this PDF version via the Board's web portal.

If there are any questions, please contact Chris Amos at 519-888-5541, camos@wnhydro.com or Albert Singh at 519-888-5542, asingh@wnhydro.com.

Yours truly,

Original Signed By

Albert P. Singh, MBA, CPA, CGA
Vice-President, Finance and CFO

EB-2015-0108

Waterloo North Hydro Inc. (WNH)

Interrogatory Responses to VECC –
Technical Conference

August 18, 2015

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EXHIBIT 1 – ADMINISTRATIVE DOCUMENTS

3.0-VECC-48

Reference: 3-Staff-93
Load Forecast Model, Purchase Power Model Tab,
Columns A-G

Interrogatory:

- a) It is not evident from the Load Forecast Excel model (Purchase Power Model Tab – Columns A-G) that WNH has accounted for low voltage purchases as indicated in the response. Please indicate where these purchases are recognized in the determination of the purchase power values used in the load forecast model.

Response:

- a) WNH's low voltage purchases are reflected in the purchases from the IESO in column B of WNH's Load Forecast. WNH settles low voltage purchases, through the totalization process with the IESO, thus, it is reflected in WNH's IESO invoice and is treated the same as direct purchases from the IESO. WNH purchases energy at low voltage supply points from HONI, Kitchener-Wilmot Hydro and Cambridge and North Dumfries Hydro.

3.0–VECC-49

Reference: 3-Staff-96

Interrogatory:

- a) There does not appear to be any difference between the calculations proposed by Board Staff versus the alternative suggested by MNH for either the numerator (B) or the denominator (A) of the ratio to be applied to actual purchases. Please explain if and how the calculation of each as proposed by WNH differs from Board Staff's.

Response:

- a) The value for (A) is the same between Board Staff and WNH but the value for (B) is different. As written in the referenced interrogatory, the value for (B) in the Board Staff case is based on running the regression model for historical using all actual dependent variables except use normal HDD and CDD values. The value for (B) in the WNH case is to insert the average HDD and CDD (i.e. weather normal values) in the regression model that supports (A) back to 1996, thus, resulting in new weather normalized predicted purchases for the actual years 1996 to 2014. The main difference is the way the Board Staff method is written suggests running the regression analysis again to determine a prediction formula by using normal HDD and CDD values instead of actual HDD and CDD values for all years. The WNH method does not run the regression analysis again but uses the prediction formula based on a regression analysis that uses actual HDD and CDD values for all years and then inserts normal HDD and CDD in the predication formula to determine weather normal predicted values.

3.0–VECC-50

Reference: 3-Staff-100

Load Forecast Excel Model, Rate Class Customer Model
Tab 3-Energy Probe-20 f)

Interrogatory:

- a) The response to Staff-100 b) states that the GS<50 customer count as of June 14, 2015 is 5,691 – up 15 from year end 2014. However, the Load Forecast Model shows a year end 2014 actual count of 5,576 and a forecast year-end 2015 count of only 5,615 – both less than the actual reported count as of mid-year. Please reconcile.
- b) With respect to Energy Probe 20 f), please confirm that when WNL uses the term “connections” in reference to Street Lights in Exhibit 3, it is really referring to “devices” as defined for purposes of cost allocation (see Cost Allocation model, Tab I6.2). Also please indicate the number of true Street Light “connections” that were transferred to GS<50 as individual customers.

Response:

- a) WNH incorrectly reported the GS < 50 kW customer count as of June 30, 2015 as 5,691, this should have read 5,591, thus, reconciling to the statement that there was an increase of 15 from December 2014.

- b) WNH confirms that when WNH used the term “connections” in reference to Street Lights in Exhibit 3, it is really referring to “devices” as defined for purposes of cost allocation.

The number of true Street Light “connections” that were transferred to GS > 50 kW rate class as individual customers was 2 customers. Please note that WNH had previously incorrectly stated that these had transferred to the GS < 50 kW rate class.

3.0–VECC-51

Reference: 3-Staff-106

Interrogatory:

- a) Please provide the preliminary results from the IESO/OPA with respect to WNH's 2014 CDM programs referenced in the response to part (a).

Response:

- a) WNH has attached the preliminary results from the IESO/OPA with respect to WNH's 2014 CDM programs. As noted in the response to 3-Staff-106, in order to finalize the 2014 results WNH continues to have ongoing discussions with the IESO regarding projects to be included in the 2014 results.

3.0–VECC-52

Reference: 3-Staff-99

Interrogatory:

- a) Is the use of a 3.62% loss factor as opposed to a 3.644% loss factor the only change from the Load Forecast model as originally filed to the model filed with this response? If not, please itemize the other changes.
- b) Please confirm that the change in the loss factor will have an impact on the calculation of the revenue sufficiency/deficiency for 2016 and therefore should be included in the RRWF tracking sheet.

Response:

- a) An additional change was made, in addition to the 3.62% loss factor change, in the Tab 'Rate Class Energy Model' in WNH's Load Forecast, rows 85 and 86, in which a CDM allocation was made to the Large User rate class and the GS > 50 kW rate class was adjusted.
- b) WNH confirms that the change in loss factor has an impact on the calculation of the revenue sufficiency/deficiency for 2016 and has attached a Revised RRWF Tracking Sheet which reflects this change; no changes were made to the RRWF.

Reference: 3-Staff-99

Interrogatory:

Preamble: The following was extracted from Rate Class Energy Model Tabs of the Load Forecast Model as originally filed and as updated with 3-Staff-99.

		Total Billed	Residential	General Service < 50 kW	General Service > 50 to 4999 kW	Large User	Direct Market Participant	Street Lights	Unmetered Loads	Embedded Distributors - #1
Original LF										
Weather Corrected Forecast										
2015		1,453,240,676	404,568,390	194,995,025	711,599,630	93,142,620	6,912,533	7,639,658	2,829,382	31,553,438
2016		1,445,815,676	399,341,268	192,108,795	710,364,299	95,063,906	6,823,514	7,594,660	3,140,372	31,378,863
Updated LF										
Weather Corrected Forecast										
2015		1,453,619,516	404,699,733	195,058,723	712,834,228	92,091,821	6,912,533	7,639,658	2,829,382	31,553,438
2016		1,446,194,516	399,471,640	192,172,348	712,810,799	92,802,320	6,823,514	7,594,660	3,140,372	31,378,863

- a) It is noted that updated load forecast for total billed energy is higher and, with the exception of the Large Use class, the individual class loads are either higher or the same. Please explain why the forecast for the Large Use class decreases as a result of the update.

Response:

- a) The forecast for the Large Use and GS > 50 kW rate classes changed due to a revised allocation of the CDM Adjustment in the 'Rate Class Energy Model' Tab in WNH's Load Forecast. In this tab, on lines 85 and 86 an allocation was made to the Large Use rate class and a decreased allocation was made to the GS > 50 kW rate class. These allocation changes resulted in a decrease in the Large Use rate class forecast, while the GS > 50 kW rate class forecast increased.

8.0 RATE DESIGN

8.0–VECC-52

Reference: 8-Staff-138

Interrogatory:

- a) Please explain why the current tariff monthly fixed charge used in Appendix 2-P (\$16.91) does not equal the current 2015 monthly fixed charge of \$15.20.
- b) Similarly, please explain why the current tariff variable charge used in Appendix 2-PA (\$0.0214) does not equal the current 2015 distribution volumetric rate of \$0.0192/kWh.
- c) Please revise Appendix 2-PA accordingly.

Response:

- a) In the Board's July 16, 2015 Letter '*Implementing a New Rate Design for Electricity Distributors*' OEB File No. EB-2012-0410, it states: "*If a distributor is currently undergoing a cost of service review, the numbers used in the current application will be used.*" WNH, thus, used the 2016 COS numbers, after the adjustments for changes due to Interrogatories, in its calculation of Appendix 2-PA.
- b) Please see the response to (a) above.
- c) WNH has provided an Appendix 2-PA with a monthly fixed charge of \$15.20 and a volumetric rate of \$0.0192/kWh below. WNH is in support of its calculation in Appendix 2-PA which was filed on August 7, 2015 in response to 8-Staff-138.

Appendix 2-PA New Rate Design Policy For Residential Customers

Please complete the following tables.

A) Data Inputs

Test Year Billing Determinants for Residential Class	
Customers	49,305
kWh	399,471,640

Proposed Residential Class Specific Revenue Requirement ¹	\$ 18,542,762.32
--	------------------

Residential Base Rates on Current Tariff	
Monthly Fixed Charge (\$)	15.20
Distribution Volumetric Rate (\$/kWh)	0.0192

B) Current Fixed/Variable Split

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	15.2	49,305	\$ 8,993,232.00	53.97%
Variable	0.0192	399,471,640	\$ 7,669,855.49	46.03%
TOTAL	-	-	\$ 16,663,087.49	-

C) Calculating Test Year Base Rates

Number of Required Rate Design Policy Transition Years ²	4
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	Test Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	Reconciliation - Test Year Base Rates @ Current F/V Split
Fixed	\$ 10,007,710.97	16.91	\$ 10,004,970.60
Variable	\$ 8,535,051.35	0.0214	\$ 8,548,693.10
TOTAL	\$ 18,542,762.32	-	\$ 18,553,663.70

	New F/V Split	Revenue @ new F/V Split	Final Adjusted Base Rates	Reconciliation @ Adjusted Rates
Fixed	65.48%	\$ 12,141,473.81	20.52	\$ 12,140,863.20
Variable	34.52%	\$ 6,401,288.51	0.0160	\$ 6,391,546.24
TOTAL	-	\$ 18,542,762.32	-	\$ 18,532,409.44

Checks ³	
Change in Fixed Rate	\$ 3.61
Difference Between Revenues @ Proposed Rates and Class Specific Revenue Requirement	\$ (10,352.88)
	-0.06%



Message from the Vice President:

The IESO is pleased to provide the enclosed Draft 2011-2014 Final Results Report. This report is designed to provide preliminary information on the 2014 results and to help populate LDC annual report templates that will be submitted to the OEB in September 2015.

2011-2014 Conservation Framework Highlights:

- LDCs have been able to make significant gains towards both energy and demand savings targets. Collectively, the LDCs have achieved 107% of the energy target and 64% of the peak demand target (these results are slightly higher than the Q4 2014 reported results mainly thanks to last year's adjustments and favorable verified year end performance indicators).
- Throughout the past framework, program results have become more predictable year over year as noted in the increasingly smaller variance between quarterly preliminary results and verified final results.
- Customer engagement continued to rise in both Consumer and Business Programs. Between 2011 - 2014 consumers have purchased over 1.2 million energy efficient products through the saveONenergy COUPONS program. Customers in RETROFIT continue to declare a positive experience participating in the program with 86% likely to recommend.

- saveONenergy has seen a steady and significant increase in unaided brand awareness by 33% from 2011-2014

Please note that the 2014 draft results within this report may vary from the Q4 2014 preliminary report for the following reasons:

- Improvements in net-to-gross values: The province-wide net-to-gross ratio for Conservation Instant Coupon Booklet and Bi-Annual Retailer Event has increased by 67% for peak demand and 68% for energy savings over 2013.
- Improvements in realization rates: The realization rates for Home Assistance program have increased by 123% over reported results in 2013, while Energy Manager program realization rate for energy saw a 7% increase over 2013.
- 2013 Adjustments: Adjustments for 2013 have been included in this report alongside the 2011-2012 adjustments. These adjustments to previous year's results ensure that energy and demand savings are properly categorized in the year that they were achieved and that any omissions and/or errors identified after the release of the 2011-2013 Final Results Report are properly accounted for and reported to the LDCs. The results will be identified in the year in which the verified savings are reported, however the cumulative effect will be calculated from the implementation year. The process for including adjustments to previous year's results was developed in collaboration with the LDC Data and Reporting Working Group.

These results are considered draft and may be subject to change. This report does not include results for Time-of-Use and any potential Pilot Programs. These results will be included in the Final 2014 Results Reports. The IESO is committed to providing LDCs with the opportunity to review and provide feedback on draft results. To ensure that all inquiries can be directed to the appropriate IESO contact and addressed prior to the release of the final results, please e-mail a list of questions and/or concerns to LDC Support (LDC.Support@ieso.ca) by EOD Tuesday, August 12, 2015.

The Final 2014 Results Report will be available to all LDCs on or before August 31, 2015. All results will be considered final for the 2011-2014 Conservation Framework. Any additional program activity not captured in the 2014 Results Report will not be included as part of a future adjustment process.

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

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

Sincerely,

Terry Young

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

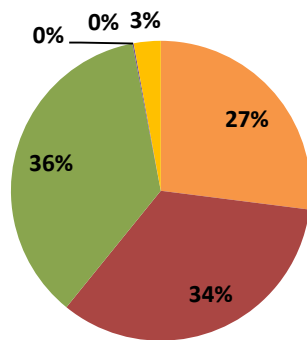
LDC: Waterloo North Hydro Inc.

Final 2014 Achievement Against Targets	2014 Incremental	2011-2014	
		Achievement Against Target	% of Target Achieved
Net Annual Peak Demand Savings (MW)	3.3	7.2	45.8%
Net Energy Savings (GWh)	9.1	64.3	96.8%

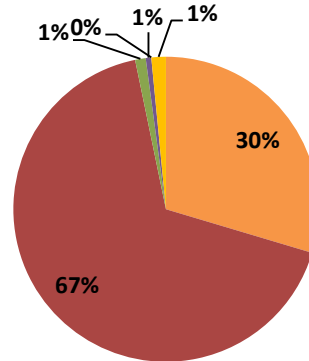
Unless otherwise noted, results are presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Achievement by Sector

2014 Incremental Peak Demand Savings (MW)



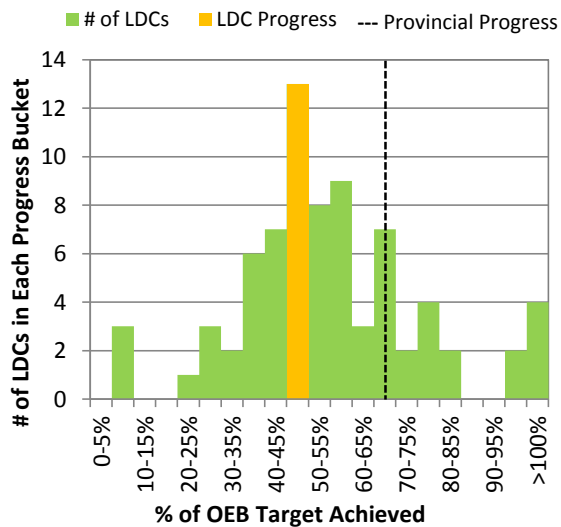
2014 Incremental Energy Savings (GWh)



Consumer Business Industrial HAP ACP Other

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

% of OEB Peak Demand Savings Target Achieved



% of OEB Energy Savings Target Achieved

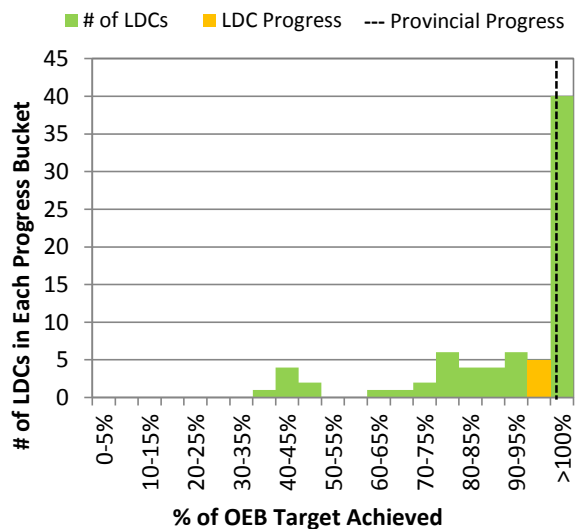


Table 1: Waterloo North Hydro Inc. Initiative and Program Level Net Savings by Year (Scenario 1)

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh) 2014
Consumer Program															
Appliance Retirement	Appliances	433	246	148	182	24	14	10	12	180,566	99,292	63,885	79,997	60	1,227,805
Appliance Exchange	Appliances	22	75	63	142	2	11	13	29	3,051	18,832	23,275	52,460	54	166,552
HVAC Incentives	Equipment	1,199	1,155	1,196	1,521	417	255	240	296	773,162	439,314	409,133	544,462	1,209	5,773,317
Conservation Instant Coupon Booklet	Items	5,070	309	3,486	18,825	12	2	5	42	186,550	14,008	77,221	515,369	61	1,458,036
Bi-Annual Retailer Event	Items	9,539	10,629	9,465	48,338	17	15	12	81	294,427	268,321	172,122	1,231,340	124	3,558,254
Retailer Co-op	Items	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Demand Response	Devices	129	0	511	1,031	72	0	196	365	0	0	652	0	365	652
Residential Demand Response (IHD)	Devices	0	0	381	853	0	0	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Consumer Program Total						544	298	476	826	1,437,756	839,767	746,287	2,423,628	1,874	12,184,617
Business Program															
Retrofit	Projects	40	57	156	132	263	762	557	783	1,433,122	4,566,653	3,060,859	4,802,167	2,347	30,262,552
Direct Install Lighting	Projects	225	106	114	114	248	82	114	94	617,168	307,810	408,878	349,433	466	4,348,246
Building Commissioning	Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Construction	Buildings	0	2	3	4	0	4	1	30	0	3,763	1,047	147,556	35	160,939
Energy Audit	Audits	6	16	66	3	0	36	282	40	0	176,234	1,550,425	195,821	358	3,825,371
Small Commercial Demand Response	Devices	8	0	10	15	5	0	6	8	0	0	10	0	8	10
Small Commercial Demand Response (IHD)	Devices	0	0	2	3	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	3	3	3	3	111	111	113	78	4,323	1,614	1,504	0	78	7,442
Business Program Total						626	996	1,073	1,034	2,054,613	5,056,074	5,022,723	5,494,977	3,292	38,604,560
Industrial Program															
Process & System Upgrades	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Manager	Projects	0	0	0	17	0	0	0	24	0	0	0	91,627	24	91,627
Retrofit	Projects	11	0	0	0	180	0	0	0	1,128,878	0	0	0	180	4,515,511
Demand Response 3	Facilities	4	7	6	10	392	1,260	1,151	1,081	23,003	30,360	30,917	0	1,081	84,279
Industrial Program Total						572	1,260	1,151	1,105	1,151,881	30,360	30,917	91,627	1,284	4,691,417
Home Assistance Program															
Home Assistance Program	Homes	0	37	420	124	0	2	12	4	0	26,655	170,106	48,046	18	467,034
Home Assistance Program Total						0	2	12	4	0	26,655	170,106	48,046	18	467,034
Aboriginal Program															
Home Assistance Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aboriginal Program Total						0	0	0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	28	0	0	0	181	0	0	0	913,663	0	0	0	181	3,654,650
High Performance New Construction	Projects	6	1	0	0	182	21	0	0	932,887	105,383	0	0	203	4,047,698
Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LDC Custom Programs	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011 Total						362	21	0	0	1,846,550	105,383	0	0	384	7,702,349
Other															
Program Enabled Savings	Projects	0	0	0	3	0	0	0	89	0	0	0	125,622	89	125,622
Time-of-Use Savings	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Total						0	0	0	89	0	0	0	125,622	89	125,622
Adjustments to 2011 Verified Results															
Adjustments to 2012 Verified Results															
Adjustments to 2013 Verified Results															
Energy Efficiency Total						1,524	1,206	1,246	1,525	6,463,473	6,026,264	5,936,950	8,183,899	5,409	63,683,214
Demand Response Total (Scenario 1)						580	1,371	1,466	1,532	27,327	31,974	33,083	0	1,532	92,384
Adjustments to Previous Years' Verified Results Total						0	-36	66	260	0	-589,797	387,881	866,542	289	557,866
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						2,104	2,541	2,777	3,318	6,490,800	5,468,441	6,357,914	9,050,442	7,230	64,333,464
Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).														Full OEB Target:	
*Includes adjustments after Final Reports were issued														15,790	
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year														66,490,000	
% of Full OEB Target Achieved to Date (Scenario 1):														45.8%	
														96.8%	

Table 2: Adjustments to Waterloo North Hydro Inc. Net Verified Results due to Variances

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
														2014	2014
Consumer Program															
Appliance Retirement	Appliances	0	0	0		0	0	0		0	0	0		0	0
Appliance Exchange	Appliances	0	0	0		0	0	0		0	0	0		0	0
HVAC Incentives	Equipment	-239	29	49		-67	6	11		-122,413	11,623	18,614		-50	-417,558
Conservation Instant Coupon Booklet	Items	82	0	11		0	0	0		2,762	0	236		0	11,519
Bi-Annual Retailer Event	Items	820	0	0		1	0	0		21,875	0	0		1	87,500
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential New Construction	Homes	0	0	0		0	0	0		0	0	0		0	0
Consumer Program Total						-66	6	11		-97,777	11,623	18,850		-49	-318,540
Business Program															
Retrofit	Projects	0	4	23		0	55	209		0	351,634	720,742		261	2,486,441
Direct Install Lighting	Projects	11	0	0		9	0	0		18,673	0	0		7	68,824
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	0	1	2		0	1	20		0	1,498	7,792		21	20,079
Energy Audit	Audits	6	9	34		16	7	18		79,195	32,009	97,994		41	608,794
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Business Program Total						25	62	247		97,868	385,140	826,528		330	3,184,137
Industrial Program															
Process & System Upgrades	Projects	0	0	0		0	0	0		0	0	0		0	0
Monitoring & Targeting	Projects	0	0	0		0	0	0		0	0	0		0	0
Energy Manager	Projects	0	0	0		0	0	0		0	0	0		0	0
Retrofit	Projects	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Industrial Program Total						0	0	0		0	0	0		0	0
Home Assistance Program															
Home Assistance Program	Homes	0	0	21		0	0	2		0	0	18,599		2	37,160
Home Assistance Program Total						0	0	2		0	0	18,599		2	37,160
Aboriginal Program															
Home Assistance Program	Homes	0	0	0		0	0	0		0	0	0		0	0
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Aboriginal Program Total						0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	0	0	0		0	0	0		0	0	0		0	0
High Performance New Construction	Projects	1	0	0		5	0	0		-586,223	0	0		5	-2,344,891
Toronto Comprehensive	Projects	0	0	0		0	0	0		0	0	0		0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011 Total						5	0	0		-586,223	0	0		5	-2,344,891
Other															
Program Enabled Savings	Projects	0	0	0		0	0	0		0	0	0		0	0
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
Other Total						0	0	0		0	0	0		0	0
Adjustments to 2011 Verified Results						-35				-586,131				-37	-2,350,395
Adjustments to 2012 Verified Results							68				396,763			68	1,190,289
Adjustments to 2013 Verified Results								260				863,977		257	1,717,972
Total Adjustments to Previous Years' Verified Results						-35	68	260		-586,131	396,763	863,977		289	557,866

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

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

Table 3: Waterloo North Hydro Inc. Realization Rate & NTG

Initiative	Peak Demand Savings								Energy Savings							
	Realization Rate				Net-to-Gross Ratio				Realization Rate				Net-to-Gross Ratio			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program																
Appliance Retirement	1.00	1.00	n/a	n/a	0.51	0.46	0.42	0.43	1.00	1.00	n/a	n/a	0.52	0.47	0.44	0.43
Appliance Exchange	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53
HVAC Incentives	1.00	1.00	n/a	1.00	0.60	0.50	0.48	0.51	1.00	1.00	n/a	1.00	0.60	0.49	0.48	0.51
Conservation Instant Coupon Booklet	1.00	1.00	1.00	1.00	1.14	1.00	1.11	1.34	1.00	1.00	1.00	1.00	1.11	1.05	1.13	1.39
Bi-Annual Retailer Event	1.00	1.00	1.00	1.00	1.13	0.91	1.04	1.74	1.00	1.00	1.00	1.00	1.10	0.92	1.04	1.75
Retailer Co-op	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential New Construction	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Business Program																
Retrofit	0.97	0.94	0.91	0.84	0.71	0.71	0.70	0.70	1.16	1.00	0.96	0.93	0.74	0.70	0.71	0.70
Direct Install Lighting	1.08	0.68	0.81	0.78	0.93	0.94	0.94	0.94	0.90	0.85	0.84	0.83	0.93	0.94	0.94	0.94
Building Commissioning	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
New Construction	n/a	0.96	0.47	0.78	n/a	0.49	0.54	0.54	n/a	1.11	0.81	0.91	n/a	0.49	0.54	0.54
Energy Audit	n/a	n/a	1.02	0.96	n/a	n/a	0.66	0.68	n/a	n/a	0.97	1.00	n/a	n/a	0.66	0.67
Small Commercial Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Small Commercial Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Demand Response 3	0.76	n/a	n/a	n/a	n/a	n/a	n/a	n/a	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	0.91	n/a	n/a	n/a	0.90	n/a	n/a	n/a	0.96	n/a	n/a	n/a	0.90
Retrofit																
Demand Response 3	0.84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Home Assistance Program																
Home Assistance Program	n/a	1.15	0.93	0.95	n/a	1.00	1.00	1.00	n/a	1.03	0.86	0.74	n/a	1.00	1.00	1.00
Aboriginal Program																
Home Assistance Program	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Direct Install Lighting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program	0.78	n/a	n/a	n/a	0.52	n/a	n/a	n/a	0.78	n/a	n/a	n/a	0.53	n/a	n/a	n/a
High Performance New Construction	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50
Toronto Comprehensive	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Multifamily Energy Efficiency Rebates	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Custom Programs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other																
Program Enabled Savings	n/a	n/a	n/a	0.90	n/a	n/a	n/a	1.00	n/a	n/a	n/a	0.94	n/a	n/a	n/a	1.00
Time-of-Use Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Summary Achievement Against CDM Targets

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

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

Implementation Period	Annual			
	2011	2012	2013	2014
2011 - Verified	2.1	1.5	1.5	1.5
2012 - Verified†	0.0	2.5	1.2	1.2
2013 - Verified†	0.0	0.1	2.8	1.3
2014 - Verified†	0.0	0.0	0.3	3.3
Verified Net Annual Peak Demand Savings Persisting in 2014:				7.2
Waterloo North Hydro Inc. 2014 Annual CDM Capacity Target:				15.8
Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):				45.8%

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

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011 - Verified	6.5	6.5	6.4	6.3	25.7
2012 - Verified†	-0.6	5.5	5.4	5.4	15.7
2013 - Verified†	0.0	0.4	6.4	6.3	13.1
2014 - Verified†	0.0	0.0	0.9	9.1	9.9
Verified Net Cumulative Energy Savings 2011-2014:					64.3
Waterloo North Hydro Inc. 2011-2014 Annual CDM Energy Target:					66.5
Verified Portion of Cumulative Energy Target Achieved in 2014 (%):					96.8%

†Includes adjustments to previous years' verified results

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

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

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2011-2014 Net Cumulative Energy Savings (kWh) 2014
Consumer Program															
Appliance Retirement	Appliances	56,110	34,146	20,952	22,563	3,299	2,011	1,433	1,569	23,005,812	13,424,518	8,713,107	9,495,506	8,174	159,098,578
Appliance Exchange	Appliances	3,688	3,836	5,337	5,685	371	556	1,106	1,178	450,187	974,621	1,971,701	2,100,266	2,973	10,556,192
HVAC Incentives	Equipment	92,748	87,540	96,286	113,002	32,037	19,060	19,552	23,106	59,437,670	32,841,283	33,923,592	42,888,217	93,755	447,009,930
Conservation Instant Coupon Booklet	Items	567,678	30,891	347,944	1,208,108	1,344	230	517	2,440	21,211,537	1,398,202	7,707,573	32,802,537	4,531	137,258,436
Bi-Annual Retailer Event	Items	952,149	1,060,901	944,772	4,824,751	1,681	1,480	1,184	8,043	29,387,468	26,781,674	17,179,841	122,902,769	12,389	355,157,348
Retailer Co-op	Items	152	0	0	0	0	0	0	0	2,652	0	0	0	0	10,607
Residential Demand Response	Devices	19,550	98,388	171,733	238,173	10,947	49,038	93,076	115,915	24,870	359,408	390,303	8,378	115,915	782,959
Residential Demand Response (IHD)	Devices	0	49,689	133,657	188,575	0	0	0	0	0	0	0	0	0	0
Residential New Construction	Homes	26	22	104	232	0	2	18	351	743	17,152	163,690	2,280,459	371	2,662,270
Consumer Program Total						49,681	72,377	116,886	152,602	133,520,941	75,796,859	70,049,807	212,478,131	238,108	1,112,536,320
Business Program															
Retrofit	Projects	2,819	6,134	9,749	10,686	24,467	61,147	59,678	68,439	136,002,258	314,922,468	345,346,008	442,715,205	211,270	2,611,212,907
Direct Install Lighting	Projects	20,741	18,691	17,833	23,784	23,724	15,284	18,708	23,419	61,076,701	57,345,798	64,315,558	84,503,302	73,304	604,196,658
Building Commissioning	Buildings	0	0	0	2	0	0	0	133	0	0	0	157,250	133	157,250
New Construction	Buildings	22	100	152	220	123	764	1,584	3,429	411,717	1,814,721	4,959,266	12,332,317	5,901	29,341,880
Energy Audit	Audits	293	690	857	281	0	1,450	2,811	3,756	0	7,049,351	15,455,795	18,341,873	8,017	70,401,517
Small Commercial Demand Response	Devices	132	294	1,211	3,637	84	187	773	2,106	157	1,068	373	62	2,106	1,659
Small Commercial Demand Response (IHD)	Devices	0	0	378	820	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	145	151	175	180	16,218	19,389	23,706	21,121	633,421	281,823	346,659	0	21,121	1,261,903
Business Program Total						64,617	98,221	107,261	122,402	198,124,253	381,415,230	430,423,659	558,050,009	321,852	3,316,573,776
Industrial Program															
Process & System Upgrades	Projects	0	0	5	10	0	0	294	9,338	0	0	2,603,764	72,370,894	9,633	77,578,421
Monitoring & Targeting	Projects	0	1	4	5	0	0	0	102	0	0	0	502,517	102	502,517
Energy Manager	Projects	1	139	545	375	0	1,086	3,558	5,191	0	7,372,108	21,994,263	40,430,448	8,385	95,319,018
Retrofit	Projects	433	0	0	0	4,615	0	0	0	28,866,840	0	0	0	4,613	115,462,282
Demand Response 3	Facilities	124	185	281	336	52,484	74,056	162,543	166,082	3,080,737	1,784,712	4,309,160	0	166,082	9,174,609
Industrial Program Total						57,098	75,141	166,395	180,713	31,947,577	9,156,820	28,907,187	113,303,859	188,814	298,036,847
Home Assistance Program															
Home Assistance Program	Homes	46	5,033	29,092	21,956	2	566	2,361	1,960	39,283	5,442,232	20,987,275	16,082,261	4,864	74,032,174
Home Assistance Program Total						2	566	2,361	1,960	39,283	5,442,232	20,987,275	16,082,261	4,864	74,032,174
Aboriginal Program															
Home Assistance Program	Homes	0	0	717	1,125	0	0	267	549	0	0	1,609,393	3,101,207	816	6,319,993
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aboriginal Program Total						0	0	267	549	0	0	1,609,393	3,101,207	816	6,319,993
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	2,028	0	0	0	21,662	0	0	0	121,138,219	0	0	0	21,662	484,552,876
High Performance New Construction	Projects	179	69	4	0	5,098	3,251	772	0	26,185,591	11,901,944	3,522,240	0	9,121	147,492,677
Toronto Comprehensive	Projects	577	0	0	0	15,805	0	0	0	86,964,886	0	0	0	15,805	347,859,545
Multifamily Energy Efficiency Rebates	Projects	110	0	0	0	1,981	0	0	0	7,595,683	0	0	0	1,981	30,382,733
LDC Custom Programs	Projects	8	0	0	0	399	0	0	0	1,367,170	0	0	0	399	5,468,679
Pre-2011 Programs completed in 2011 Total						44,945	3,251	772	0	243,251,550	11,901,944	3,522,240	0	48,967	1,015,756,510
Other															
Program Enabled Savings	Projects	32	71	46	40	0	2,304	3,692	5,134	0	1,188,362	4,075,382	16,298,528	11,130	28,014,377
Time-of-Use Savings	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Total						0	2,304	3,692	5,134	0	1,188,362	4,075,382	16,298,528	11,130	28,014,377
Adjustments to 2011 Verified Results															
Adjustments to 2012 Verified Results															
Adjustments to 2013 Verified Results															
Energy Efficiency Total						136,610	109,191	117,536	158,137	603,144,419	482,474,435	554,528,447	919,305,555	509,327	5,840,048,867
Demand Response Total (Scenario 1)						79,733	142,670	280,099	305,224	3,739,185	2,427,011	5,046,495	8,440	305,224	11,221,131
Adjustments to Previous Years' Verified Results Total						0	1,406	6,901	28,767	0	18,689,081	43,684,221	163,639,062	36,744	551,087,023
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						216,343	253,267	404,536	492,128	606,883,604	503,590,526	603,259,163	1,082,953,057	851,294	6,402,357,020
Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).														Full OEB Target:	
														1,330,000	
														64%	
% of Full OEB Target Achieved to Date (Scenario 1):														106.7%	

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

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
Consumer Program															
Appliance Retirement	Appliances	0	0	0		0	0	0		0	0	0		0	0
Appliance Exchange	Appliances	0	0	0		0	0	0		0	0	0		0	0
HVAC Incentives	Equipment	-18,839	2,319	4,705		-5,270	479	1,037		-9,707,002	955,512	1,838,408		-3,754	-32,284,656
Conservation Instant Coupon Booklet	Items	8,216	0	1,048		16	0	2		275,655	0	23,571		18	1,149,763
Bi-Annual Retailer Event	Items	81,817	0	0		108	0	0		2,183,391	0	0		108	8,733,563
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential New Construction	Homes	19	3	18		1	1	212		13,767	1,884	3,446,445		214	6,953,611
Consumer Program Total						-5,145	480	1,250		-7,234,189	957,396	5,308,424		-3,415	-15,655,961
Business Program															
Retrofit	Projects	303	529	964		3,204	4,443	11,903		16,216,165	28,739,635	80,310,415		19,229	310,485,860
Direct Install Lighting	Projects	444	197	51		501	204	46		1,250,388	736,541	164,667		620	7,158,143
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	12	31	66		828	1,321	1,983		3,520,620	4,886,808	7,225,170		4,042	43,017,908
Energy Audit	Audits	190	410	538		515	396	1,933		2,507,838	1,931,107	10,628,007		2,844	37,080,687
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Business Program Total						5,048	6,364	15,865		23,495,011	36,294,091	98,328,259		26,736	381,532,436
Industrial Program															
Process & System Upgrades	Projects	0	0	2		0	0	324		0	0	968,659		324	1,937,318
Monitoring & Targeting	Projects	0	1	4		0	170	180		0	528,000	1,086,865		350	3,757,730
Energy Manager	Projects	1	100	340		27	93	2,281		241,515	1,280,523	25,274,661		3,400	58,610,783
Retrofit	Projects	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Industrial Program Total						27	263	2,785		241,515	1,808,523	27,330,185		4,075	60,025,404
Home Assistance Program															
Home Assistance Program	Homes	0	0	2,336		0	0	561		0	0	3,193,968		559	6,339,674
Home Assistance Program Total						0	0	561		0	0	3,193,968		559	6,339,674
Aboriginal Program															
Home Assistance Program	Homes	0	0	133		0	0	134		0	0	563,715		134	1,127,430
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Aboriginal Program Total						0	0	134		0	0	563,715		134	1,127,430
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	12	0	0		138	0	0		545,536	0	0		138	2,182,145
High Performance New Construction	Projects	34	0	0		1,407	0	0		2,065,200	0	0		1,407	8,260,800
Toronto Comprehensive	Projects	0	0	0		0	0	0		0	0	0		0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011 Total						1,545	0	0		2,610,736	0	0		1,545	10,442,945
Other															
Program Enabled Savings	Projects	32	55	33		1,377	3,712	2,020		7,697,402	11,481,687	10,670,798		7,110	86,576,264
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
Other Total						1,377	3,712	2,020		7,697,402	11,481,687	10,670,798		7,110	86,576,264
Adjustments to 2011 Verified Results						2,852				26,810,475				2,601	106,399,308
Adjustments to 2012 Verified Results							10,819				50,541,698			10,680	149,958,229
Adjustments to 2013 Verified Results								22,616				145,395,348		23,462	294,729,486
Adjustments to Previous Years' Verified Results Total						2,852	10,819	22,616		26,810,475	50,541,698	145,395,348		36,744	551,087,023

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

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

Table 8: Province-Wide Realization Rate & NTG

Initiative	Peak Demand Savings								Energy Savings							
	Realization Rate				Net-to-Gross Ratio				Realization Rate				Net-to-Gross Ratio			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program																
Appliance Retirement	1.00	1.00	1.00	1.00	0.51	0.46	0.42	0.45	1.00	1.00	1.00	1.00	0.46	0.47	0.44	0.47
Appliance Exchange	1.00	1.00	1.00	1.00	0.51	0.52	0.53	0.53	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53
HVAC Incentives	1.00	1.00	1.00	1.00	0.60	0.50	0.48	0.48	1.00	1.00	1.00	1.00	0.50	0.49	0.48	0.48
Conservation Instant Coupon Booklet	1.00	1.00	1.00	1.00	1.14	1.00	1.11	1.69	1.00	1.00	1.00	1.00	1.00	1.05	1.13	1.73
Bi-Annual Retailer Event	1.00	1.00	1.00	1.00	1.12	0.91	1.04	1.74	1.00	1.00	1.00	1.00	0.91	0.92	1.04	1.75
Retailer Co-op	1.00	n/a	n/a	n/a	0.68	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential New Construction	1.00	3.65	0.78	1.03	0.41	0.49	0.63	0.63	3.65	7.17	3.09	0.62	0.49	0.49	0.63	0.63
Business Program																
Retrofit	1.06	0.93	0.92	0.84	0.72	0.75	0.73	0.72	0.93	1.05	1.01	0.98	0.75	0.76	0.73	0.72
Direct Install Lighting	1.08	0.69	0.82	0.78	1.08	0.94	0.94	0.94	0.69	0.85	0.84	0.83	0.94	0.94	0.94	0.94
Building Commissioning	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
New Construction	0.50	0.98	0.68	0.71	0.50	0.49	0.54	0.54	0.98	0.99	0.76	0.80	0.49	0.49	0.54	0.54
Energy Audit	n/a	n/a	1.02	0.68	n/a	n/a	0.66	0.68	n/a	n/a	0.97	0.67	n/a	n/a	0.66	0.67
Small Commercial Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Small Commercial Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Demand Response 3	0.76	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Industrial Program																
Process & System Upgrades	n/a	n/a	0.85	0.96	n/a	n/a	0.94	0.76	n/a	n/a	0.87	0.96	n/a	n/a	0.93	0.80
Monitoring & Targeting	n/a	n/a	n/a	0.51	n/a	n/a	n/a	1.00	n/a	n/a	n/a	0.38	n/a	n/a	n/a	1.00
Energy Manager	n/a	1.16	0.90	0.91	n/a	0.90	0.90	0.90	1.16	1.16	0.90	0.96	0.90	0.90	0.90	0.90
Retrofit	1.11	n/a	n/a	n/a	0.72	n/a	n/a	n/a	0.91	n/a	n/a	n/a	0.75	n/a	n/a	n/a
Demand Response 3	0.84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Home Assistance Program																
Home Assistance Program	1.00	0.32	0.26	0.58	0.70	1.00	1.00	1.00	0.32	0.99	0.88	0.77	1.00	1.00	1.00	1.00
Aboriginal Program																
Home Assistance Program	n/a	n/a	0.05	0.15	n/a	n/a	1.00	1.00	n/a	n/a	0.95	0.97	n/a	n/a	1.00	1.00
Direct Install Lighting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program	0.80	n/a	n/a	n/a	0.54	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
High Performance New Construction	1.00	1.00	1.00	n/a	0.49	0.50	0.50	0.50	1.00	1.00	1.00	n/a	0.50	0.50	0.50	0.50
Toronto Comprehensive	1.13	n/a	n/a	n/a	0.50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Multifamily Energy Efficiency Rebates	0.93	n/a	n/a	n/a	0.78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Custom Programs	1.00	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other																
Program Enabled Savings	n/a	1.06	1.00	0.86	n/a	1.00	1.00	1.00	1.06	2.26	1.00	0.98	1.00	1.00	1.00	1.00
Time-of-Use Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Summary Provincial Progress Towards CDM Targets

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

Implementation Period	Annual			
	2011	2012	2013	2014
2011	216.3	136.6	135.8	129.0
2012†	1.4	253.3	109.8	108.2
2013†	0.6	7.0	404.5	122.0
2014†	0.8	5.3	27.9	492.1
Verified Net Annual Peak Demand Savings in 2014:				851.3
2014 Annual CDM Capacity Target:				1,330
Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):				64.0%

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

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011	606.9	603.0	601.0	582.3	2,393.1
2012†	18.7	503.6	498.4	492.6	1,513.3
2013†	1.7	44.4	603.3	583.4	1,232.8
2014†	6.4	14.3	159.7	1,083.0	1,263.2
Verified Net Cumulative Energy Savings 2011-2014:					6,402.4
2011-2014 Cumulative CDM Energy Target:					6,000
Verified Portion of Cumulative Energy Target Achieved in 2014 (%):					106.7%

†Includes adjustments to previous years' verified results

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

METHODOLOGY

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

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

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

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

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

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

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

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

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

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

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

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

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%

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%

Reporting Glossary

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 11: Waterloo North Hydro Inc. Initiative and Program Level Gross Savings by Year

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement**	Appliances	49	14	21	26	359,259	99,292	135,218	169,618
Appliance Exchange**	Appliances	5	11	25	56	5,919	18,832	44,220	99,672
HVAC Incentives	Equipment	691	512	494	621	1,292,287	893,954	855,951	1,145,708
Conservation Instant Coupon Booklet	Items	10	2	5	25	169,297	13,284	68,551	300,894
Bi-Annual Retailer Event	Items	15	16	11	46	269,499	292,770	164,723	703,866
Retailer Co-op	Items	0	0	0	0	0	0	0	0
Residential Demand Response	Devices	72	0	196	0	0	0	652	0
Residential Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	0	0	0	0	0	0	0
Consumer Program Total		842	556	751	774	2,096,261	1,318,132	1,269,315	2,419,758
Business Program									
Retrofit	Projects	372	1,099	797	1,159	1,949,090	6,430,988	4,340,396	6,947,384
Direct Install Lighting	Projects	231	110	121	100	664,665	369,939	433,193	370,213
Building Commissioning	Buildings	0	0	0	0	0	0	0	0
New Construction	Buildings	0	8	1	56	0	24,046	1,939	273,252
Energy Audit	Audits	0	36	430	59	0	176,234	2,345,942	291,834
Small Commercial Demand Response	Devices	5	0	6	0	0	0	10	0
Small Commercial Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	111	111	113	0	4,323	1,614	1,504	0
Business Program Total		719	1,364	1,468	1,374	2,618,079	7,002,822	7,122,984	7,882,684
Industrial Program									
Process & System Upgrades	Projects	0	0	0	0	0	0	0	0
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0
Energy Manager	Projects	0	0	0	26	0	0	0	101,808
Retrofit	Projects	249	0	0	0	1,453,318	0	0	0
Demand Response 3	Facilities	392	1,260	1,151	0	23,003	30,360	30,917	0
Industrial Program Total		641	1,260	1,151	26	1,476,321	30,360	30,917	101,808
Home Assistance Program									
Home Assistance Program	Homes	0	2	12	4	0	25,825	170,106	48,046
Home Assistance Program Total		0	2	12	4	0	25,825	170,106	48,046
Aboriginal Program									
Home Assistance Program	Homes	0	0	0	0	0	0	0	0
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0
Aboriginal Program Total		0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	346	0	0	0	1,742,736	0	0	0
High Performance New Construction	Projects	363	43	0	0	1,865,774	210,767	0	0
Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0
LDC Custom Programs	Projects	0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011 Total		709	43	0	0	3,608,510	210,767	0	0
Other									
Program Enabled Savings	Projects	0	0	0	89	0	0	0	125,622
Time-of-Use Savings	Homes	0	0	0	0	0	0	0	0
Other Total		0	0	0	89	0	0	0	125,622
Adjustments to 2011 Verified Results		290				156,341			
Adjustments to 2012 Verified Results		81				439,367			
Adjustments to 2013 Verified Results		396				1,251,196			
Energy Efficiency Total		2,330	1,854	1,916	2,267	9,771,844	8,555,931	8,560,238	10,577,917
Demand Response Total		580	1,371	1,466	0	27,327	31,974	33,083	0
Adjustments to Previous Years' Verified Results Total		0	290	81	401	0	156,341	439,367	1,270,863
OPA-Contracted LDC Portfolio Total (inc. Adjustments)		2,910	3,515	3,463	2,669	9,799,171	8,744,246	9,032,688	11,848,780

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

*Includes adjustments after Final Reports were issued

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

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

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

Table 12: Adjustments to Waterloo North Hydro Inc. Gross Verified Results due to Variances

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement	Appliances	0	0	0		0	0	0	
Appliance Exchange	Appliances	0	0	0		0	0	0	
HVAC Incentives	Equipment	-111	13	22		-204,642	23,715	39,112	
Conservation Instant Coupon Booklet	Items	0	0	0		2,565	0	207	
Bi-Annual Retailer Event	Items	1	0	0		23,781	0	0	
Retailer Co-op	Items	0	0	0		0	0	0	
Residential Demand Response	Devices	0	0	0		0	0	0	
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0	
Residential New Construction	Homes	0	0	0		0	0	0	
Consumer Program Total		-109	13	22		-178,296	23,715	39,319	
Business Program									
Retrofit	Projects	0	63	313		0	391,615	1,045,031	
Direct Install Lighting	Projects	9	0	0		20,111	0	0	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	0	0	37		0	3,057	14,430	
Energy Audit	Audits	16	5	27		75,529	35,244	148,275	
Small Commercial Demand Response	Devices	0	0	0		0	0	0	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Business Program Total		25	69	378		95,639	429,916	1,207,735	
Industrial Program									
Process & System Upgrades	Projects	0	0	0		0	0	0	
Monitoring & Targeting	Projects	0	0	0		0	0	0	
Energy Manager	Projects	0	0	0		0	0	0	
Retrofit	Projects	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Industrial Program Total		0	0	0		0	0	0	
Home Assistance Program									
Home Assistance Program	Homes	0	0	2		0	0	18,599	
Home Assistance Program Total		0	0	2		0	0	18,599	
Aboriginal Program									
Home Assistance Program	Homes	0	0	0		0	0	0	
Direct Install Lighting	Projects	0	0	0		0	0	0	
Aboriginal Program Total		0	0	0		0	0	0	
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	0	0	0		0	0	0	
High Performance New Construction	Projects	374	0	0		238,998	0	0	
Toronto Comprehensive	Projects	0	0	0		0	0	0	
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0	
LDC Custom Programs	Projects	0	0	0		0	0	0	
Pre-2011 Programs completed in 2011 Total		374	0	0		238,998	0	0	
Other									
Program Enabled Savings	Projects	0	0	0		0	0	0	
Time-of-Use Savings	Homes	0	0	0		0	0	0	
Other Total		0	0	0		0	0	0	
Adjustments to 2011 Verified Results		290				156,341			
Adjustments to 2012 Verified Results			81				453,631		
Adjustments to 2013 Verified Results				401				1,265,653	
Total Adjustments to Previous Years' Verified Results		290	81	401		156,341	453,631	1,265,653	

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

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

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

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement**	Appliances	6,750	2,011	3,151	3,471	45,971,627	13,424,518	18,616,239	20,310,975
Appliance Exchange**	Appliances	719	556	2,101	2,238	873,531	974,621	3,746,106	3,990,372
HVAC Incentives	Equipment	53,209	38,346	40,418	48,467	99,413,430	66,929,213	71,225,037	90,274,814
Conservation Instant Coupon Booklet	Items	1,184	231	464	1,442	19,192,453	1,325,898	6,842,244	19,000,254
Bi-Annual Retailer Event	Items	1,504	1,622	1,142	4,626	26,899,265	29,222,072	16,441,329	70,254,471
Retailer Co-op	Items	0	0	0	0	3,917	0	0	0
Residential Demand Response	Devices	10,390	49,038	0	0	23,597	359,408	390,303	0
Residential Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	1	29	557	1,813	4,884	259,826	3,619,776
Consumer Program Total		73,757	91,805	47,304	60,800	192,379,633	112,240,615	117,521,084	207,450,662
Business Program									
Retrofit	Projects	34,201	78,965	82,896	95,652	184,070,265	387,817,248	478,410,896	613,159,090
Direct Install Lighting	Projects	22,155	20,469	19,807	24,794	65,777,197	68,896,046	68,140,249	89,528,509
Building Commissioning	Buildings	0	0	0	133	0	0	0	157,250
New Construction	Buildings	247	1,596	2,934	6,350	823,434	3,755,869	9,183,826	22,837,624
Energy Audit	Audits	0	1,450	4,283	5,565	0	7,049,351	23,386,108	27,335,131
Small Commercial Demand Response	Devices	55	187	773	0	131	1,068	373	0
Small Commercial Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	21,390	19,389	23,706	0	633,421	281,823	346,659	0
Business Program Total		78,048	122,056	134,399	132,493	251,304,448	467,801,406	579,468,111	753,017,605
Industrial Program									
Process & System Upgrades	Projects	0	0	313	12,287	0	0	2,799,746	90,463,617
Monitoring & Targeting	Projects	0	0	0	102	0	0	0	502,517
Energy Manager	Projects	0	1,034	3,953	5,767	0	7,067,535	24,438,070	44,922,720
Retrofit	Projects	6,372	0	0	0	38,412,408	0	0	0
Demand Response 3	Facilities	176,180	74,056	162,543	0	4,243,958	1,784,712	4,309,160	0
Industrial Program Total		182,552	75,090	166,809	18,156	42,656,366	8,852,247	31,546,976	135,888,854
Home Assistance Program									
Home Assistance Program	Homes	4	1,777	2,361	1,960	56,119	5,524,230	20,987,275	16,082,261
Home Assistance Program Total		4	1,777	2,361	1,960	56,119	5,524,230	20,987,275	16,082,261
Aboriginal Program									
Home Assistance Program	Homes	0	0	267	549	0	0	1,609,393	3,101,207
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0
Aboriginal Program Total		0	0	267	549	0	0	1,609,393	3,101,207
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	40,418	0	0	0	223,956,390	0	0	0
High Performance New Construction	Projects	10,197	6,501	772	0	52,371,183	23,803,888	3,522,240	0
Toronto Comprehensive	Projects	33,467	0	0	0	174,070,574	0	0	0
Multifamily Energy Efficiency Rebates	Projects	2,553	0	0	0	9,774,792	0	0	0
LDC Custom Programs	Projects	534	0	0	0	649,140	0	0	0
Pre-2011 Programs completed in 2011 Total		87,169	6,501	772	0	460,822,079	23,803,888	3,522,240	0
Other									
Program Enabled Savings	Projects	0	2,177	3,692	5,134	0	525,011	4,075,382	0
Time-of-Use Savings	Homes	0	0	0	0	0	0	0	0
Other Total		0	2,177	3,692	5,134	0	525,011	4,075,382	0
Adjustments to 2011 Verified Results			13,266	645	820		48,705,294	20,581	4,192
Adjustments to 2012 Verified Results				8,632	5,935			54,301,893	13,266,294
Adjustments to 2013 Verified Results					32,374				199,862,478
Energy Efficiency Total		213,515	156,735	168,583	219,092	942,317,539	616,320,385	753,683,966	1,115,540,589
Demand Response Total		208,015	142,670	187,022	0	4,901,107	2,427,011	5,046,495	0
Adjustments to Previous Years' Verified Results Total		0	13,266	9,277	39,128	0	48,705,294	54,322,474	213,132,965
OPA-Contracted LDC Portfolio Total (inc. Adjustments)		421,530	312,671	364,882	258,221	947,218,646	667,452,690	813,052,934	1,328,673,554

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

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

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

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement	Appliances	0	0	0		0	0	0	
Appliance Exchange	Appliances	0	0	0		0	0	0	
HVAC Incentives	Equipment	-8,759	1,091	2,157		-16,241,086	1,952,473	3,873,449	
Conservation Instant Coupon Booklet	Items	15	0	1		255,975	0	20,668	
Bi-Annual Retailer Event	Items	117	0	0		2,373,616	0	0	
Retailer Co-op	Items	0	0	0		0	0	0	
Residential Demand Response	Devices	0	0	0		0	0	0	
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0	
Residential New Construction	Homes	0	1	337		328,256	3,845	5,470,547	
Consumer Program Total		-8,628	1,092	2,495		-13,283,238	1,956,319	9,364,664	
Business Program									
Retrofit	Projects	4,504	6,218	16,496		22,046,931	40,101,273	111,752,602	
Direct Install Lighting	Projects	541	217	49		1,346,618	781,858	174,460	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	3,243	2,695	3,672		11,323,593	9,973,078	13,379,944	
Energy Audit	Audits	526	424	2,945		2,391,744	2,070,646	16,081,199	
Small Commercial Demand Response	Devices	0	0	0		0	0	0	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Business Program Total		8,814	9,553	23,162		37,108,886	52,926,856	141,388,204	
Industrial Program									
Process & System Upgrades	Projects	0	0	426		0	0	1,232,785	
Monitoring & Targeting	Projects	0	170	180		0	528,000	1,086,865	
Energy Manager	Projects	29	103	2,557		0	1,422,803	28,293,383	
Retrofit	Projects	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Industrial Program Total		29	273	3,164		0	1,950,803	30,613,033	
Home Assistance Program									
Home Assistance Program	Homes	0	0	561		0	0	3,193,968	
Home Assistance Program Total		0	0	561		0	0	3,193,968	
Aboriginal Program									
Home Assistance Program	Homes	0	0	134		0	0	563,715	
Direct Install Lighting	Projects	0	0	0		0	0	0	
Aboriginal Program Total		0	0	134		0	0	563,715	
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	266	0	0		1,049,108	0	0	
High Performance New Construction	Projects	12,872	0	0		23,905,663	0	0	
Toronto Comprehensive	Projects	0	0	0		0	0	0	
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0	
LDC Custom Programs	Projects	0	0	0		0	0	0	
Pre-2011 Programs completed in 2011 Total		13,137	0	0		24,954,771	0	0	
Other									
Program Enabled Savings	Projects	1,377	3,712	2,020		1,673,712	11,481,687	10,670,798	
Time-of-Use Savings	Homes	0	0	0		0	0	0	
Other Total		1,377	3,712	2,020		1,673,712	11,481,687	10,670,798	
Adjustments to 2011 Verified Results		14,730				50,454,131			
Adjustments to 2012 Verified Results			14,631				68,315,665		
Adjustments to 2013 Verified Results				31,536				195,794,382	
Adjustments to Previous Years' Verified Results Total		14,730	14,631	31,536		50,454,131	68,315,665	195,794,382	

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

*Includes adjustments after Final Reports were issued
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

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



Ontario Energy Board

Revenue Requirement Workform (RRWF) for 2016 Filers

Tracking Form

The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.) Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

⁽¹⁾ Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

⁽²⁾ Short description of change, issue, etc.

60 Tracking Rows have been provided below. If you require more, please contact Industry Relations @ IndustryRelations@ontarioenergyboard.ca.

Summary of Proposed Changes

Reference ⁽¹⁾	Item / Description ⁽²⁾	Cost of Capital		Rate Base and Capital Expenditures			Operating Expenses			Revenue Requirement			
		Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues	Base Revenue Requirement	Grossed up Revenue Deficiency / Sufficiency
	Original Application	\$ 13,427,518	6.17%	\$ 217,478,742	\$ 177,783,549	\$ 23,111,861	\$ 8,151,672	\$ 803,815	\$ 13,721,334	\$ 36,594,074	\$ 1,181,606	\$ 35,412,468	\$ 4,154,517
1	Board Staff IR # 21												
	Change Working Capital Allowance % to 7.5%	\$ 12,823,802	6.17%	\$ 207,700,646	\$ 177,783,549	\$ 13,333,766	\$ 8,151,672	\$ 672,669	\$ 13,721,334	\$ 35,859,211	\$ 1,181,606	\$ 34,677,605	\$ 3,419,654
	Change	-\$ 603,717	0.00%	-\$ 9,778,096	\$ -	-\$ 9,778,095	\$ -	-\$ 131,146	\$ -	-\$ 734,863	\$ -	-\$ 734,863	-\$ 734,863
2	VECC # 10 / EP # 14 / SEC # 37												
	Update 2015 & 2016 LRT Capital Additions	\$ 12,874,063	6.17%	\$ 208,514,711	\$ 177,783,549	\$ 13,333,766	\$ 8,172,435	\$ 667,599	\$ 13,721,334	\$ 35,925,165	\$ 1,181,606	\$ 34,743,559	\$ 3,485,608
	Change	\$ 50,262	0.00%	\$ 814,065	\$ -	\$ -	\$ 20,763	-\$ 5,070	\$ -	\$ 65,954	\$ -	\$ 65,954	\$ 65,954
3	VECC # 10 / EP # 14 / SEC # 37												
	Update 2015 & 2016 All Other (Non-LRT) Capital Additions	\$ 12,834,847	6.17%	\$ 207,879,536	\$ 177,783,549	\$ 13,333,766	\$ 8,157,240	\$ 667,961	\$ 13,721,334	\$ 35,871,116	\$ 1,181,606	\$ 34,689,510	\$ 3,431,559
	Change	-\$ 39,217	0.00%	-\$ 635,174	\$ -	\$ -	-\$ 15,194	\$ 362	\$ -	-\$ 54,049	\$ -	-\$ 54,049	-\$ 54,049
4	1-Staff-149												
	Adjust Revenue Offset Appendix 2-FC	\$ 12,834,847	6.17%	\$ 207,879,536	\$ 177,783,549	\$ 13,333,766	\$ 8,157,240	\$ 667,961	\$ 13,721,334	\$ 35,871,116	\$ 1,183,596	\$ 34,687,520	\$ 3,429,569
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,990	-\$ 1,990	-\$ 1,990
5	4.0-VECC-36												
	Increase Regulatory Expense - Board Costs	\$ 12,834,893	6.17%	\$ 207,880,286	\$ 177,793,549	\$ 13,334,516	\$ 8,157,240	\$ 667,971	\$ 13,731,334	\$ 35,881,172	\$ 1,183,596	\$ 34,697,576	\$ 3,439,625
	Change	\$ 46	0.00%	\$ 750	\$ 10,000	\$ 750	\$ -	\$ 10	\$ 10,000	\$ 10,056	\$ -	\$ 10,056	\$ 10,056
6	1-Staff-22 & 1-Staff-24												
	Adjust RPP% Res <50 & Update Navigant Apr/15 Price	\$ 12,881,291	6.17%	\$ 208,631,771	\$ 187,813,339	\$ 14,086,000	\$ 8,157,240	\$ 678,050	\$ 13,731,334	\$ 35,937,649	\$ 1,183,596	\$ 34,754,053	\$ 3,496,103
	Change	\$ 46,398	0.00%	\$ 751,484	\$ 10,019,790	\$ 751,484	\$ -	\$ 10,079	\$ -	\$ 56,477	\$ -	\$ 56,477	\$ 56,477
7	3-Staff-99 & 3-Staff-131												
	Adjust Loss Factor in Load Forecast	\$ 12,881,291	6.17%	\$ 208,631,771	\$ 187,813,339	\$ 14,086,000	\$ 8,157,240	\$ 678,050	\$ 13,731,334	\$ 35,937,649	\$ 1,183,596	\$ 34,754,053	\$ 3,477,960
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-\$ 18,142
8	4-Energy Probe-40 & 43												
	Correct PILs - Depreciation in Burdens and Donations	\$ 12,881,291	6.17%	\$ 208,631,771	\$ 187,813,339	\$ 14,086,000	\$ 8,157,240	\$ 740,537	\$ 13,731,334	\$ 36,000,135	\$ 1,183,596	\$ 34,816,540	\$ 3,540,447
	Change	\$ -	0.00%	\$ -	\$ -	\$ -	\$ -	\$ 62,486	\$ -	\$ 62,486	\$ -	\$ 62,486	\$ 62,486