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Load and Revenue Forecast

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

The evidence presented in this exhibit provides information supporting the revenues derived from activities regulated by the Ontario Energy Board. Actual operating revenues from regulated operations are derived mainly from fixed and variable tariff charges as well as pass through charges and specific service charges. Revenues are collected from six (6) customer classes: Residential, General Service less than 50 kW, General Service greater than 50 kW, Unmetered Scattered Load (USL), Sentinel and Street Lighting. Ottawa River Power Corporation (ORPC) does not anticipate any changes in its customer classes.

This exhibit also describes ORPC's load and customer forecasts. The load forecast methodology and assumptions are described in detail at Exhibit 3 Tab 1 Schedule 3.

The evidence herein is organized according to the following topics;

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

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

Table 3.1 below shows estimated revenues from current distribution charges for 2016. Distribution Revenues are derived through a combination of fixed monthly charges and volumetric charges applied to the utility's proposed Load Forecast. Fixed rate revenues are determined by applying the current fixed monthly charge to the number of customers or connections in each of the customer classes in each month. Variable rate revenue is based on a volumetric rate applied to meter readings for consumption or demand volume. ORPC's 2016 forecasted revenues recovered through its currently approved distribution rates are projected at $4,052,663 (exclusive of all rate riders). The revenues at proposed distribution rates are presented at Exhibit 6

Table 3.1: Revenues at Current Rates

	Test Year Projected Revenue from Existing Variable Charges							
Customer Class Name	Variable Distribution Rate	per	Test Year Volume	Gross Variable Revenue	Transform. Allowance Rate	Transform. Allowance kW's	Transform. Allowance $'s	Net Variable Revenue
Residential	$0.0150	kWh	81190920	$1,217,863.79			$0.00	$1,217,863.79
General Service < 50 kW	$0.0105	kWh	32329405	$339,458.75			$0.00	$339,458.75
General Service > 50 to 4999 kW	$0.6489	kW	195150	$126,633.11	-0.60	37083	-$22,249.80	$104,383.31
Sentinel Ligthing	$7.8817	kW	685	$5,395.03			$0.00	$5,395.03
Streetlights	$12.1768	kW	3481	$42,383.49			$0.00	$42,383.49
Unmetered Scattered Load	$0.0020	kWh	444487	$888.97			$0.00	$888.97
Total Variable Revenue			114,164,130	$1,732,623.15	-0.6	37083	-$22,249.80	$1,710,373.35

	Test Year Projected Revenue from Proposed Fixed Charges							
Customer Class Name	Fixed Rate	Customers (Connections)	Fixed Charge Revenue	Variable Revenue	TOTAL	% Fixed Revenue	% Variable Revenue	% Total Revenue
Residential	$10.9900	9,384	$1,237,534.27	$1,217,863.79	$2,455,398.07	50.40%	49.60%	60.59%
General Service < 50 kW	$22.9700	1,300	$358,215.80	$339,458.75	$697,674.56	51.34%	48.66%	17.22%
General Service > 50 to 4999 kW	$378.7200	146	$663,517.44	$104,383.31	$767,900.75	86.41%	13.59%	18.95%
Sentinel Ligthing	$2.6000	199	$6,222.61	$5,395.03	$11,617.63	53.56%	46.44%	0.29%
Streetlights	$2.2200	2,825	$75,270.50	$42,383.49	$117,653.99	63.98%	36.02%	2.90%
Unmetered Scattered Load	$6.2500	20	$1,500.00	$888.97	$2,388.97	62.79%	37.21%	0.06%
Total Fixed Revenue		13,874	$2,342,260.63	$1,710,373.35	$4,052,633.97			

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 bridge and test year.

Table 3.2 below presents the final load forecast customer/connection counts, kWh consumption and billed kW demand.

Table 3.2: Customer and Volume Trend Table

	Year	2010	2011	2012	2013	2014	2015	2016
Residential	Cust/Conn	8,955	9,030	9,087	9,195	9,305	9,384	9,463
	kWh	75,301,012	79,270,520	78,553,744	80,138,214	79,483,998	82,752,527	81,190,920
	kW	-	-	-	-	-	-	-
General Service < 50 kW	Cust/Conn	1,372	1,370	1,362	1,333	1,318	1,300	1,281
	kWh	33,358,217	32,279,016	31,948,521	31,708,039	31,649,726	32,951,221	32,329,405
	kW	-	-	-	-	-	-	-
Unmetered Scattered Load	Cust/Conn	20	20	20	20	20	20	20
	kWh	458,526	469,307	448,159	453,471	454,406	453,036	444,487
	kW	-	-	-	-	-	-	-
General Service > 50 kW - 4999 kW	Cust/Conn	148	145	145	146	147	146	148
	kWh	76,510,235	74,853,997	74,516,293	73,596,923	72,512,849	72,294,221	70,929,970
	kW	202,775	203,575	207,916	216,501	206,399	198,904	195,150
Streetlighting	Cust/Conn	2,713	2,769	2,775	2,787	2,803	2,825	2,849
	kWh	2,383,707	2,458,955	2,432,690	2,424,249	2,439,792	2,432,436	1,250,197
	kW	6,766	6,840	6,768	6,766	6,770	6,772	3,481
Sentinel Lighting	Cust/Conn	216	209	209	207	204	199	195
	kWh	233,686	270,899	243,747	270,899	245,570	244,830	240,210
	kW	766	734	713	700	684	698	685
Total	**Cust/Conn**	**13,424**	**13,543**	**13,596**	**13,687**	**13,796**	**13,874**	**13,956**
	kWh	**188,245,383**	**189,602,695**	**188,143,155**	**188,591,795**	**186,786,342**	**191,128,272**	**186,385,189**

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 ORPC's last Cost of Service application (2010). Ottawa River Power's forecast is based on a multiple 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 ORPC. In ORPC'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 approved by the Board in the past have also used this approach.

The methodology proposed in this application predicts wholesale consumption using a multiple regression analysis that relates historical monthly wholesale kWh usage to monthly historical heating degree days and cooling degree days. Heating degree-day provide a measure of how much (in degrees), and for how long (in days), the outside temperature was below that base temperature. The most readily available heating degree days come with a base temperature of 18°C. Cooling degree-day figures also come with a base temperature, and provide a measure of how much, and for how long, the outside temperature was above that base temperature. For degree days, daily observations as reported at Ottawa (Macdonald-Cartier) International Airport are used. For employment levels, monthly full-time employment for the Kingston-Pembroke Economic Region, as reported in Statistics Canada's Monthly Labour Force Survey (CANSIM) has been used for test purposes. The regression model also uses other variables which are tested to see their relationship and contribution to the fluctuating wholesale purchases. Each variable is discussed in detail later in this section.

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

Economic Overview

Ottawa River Power projects a small customer number increase in the residential class and GS> 50 class. The utility projects a continued drop in the GS<50 class and virtually no change in the Unmetered Scattered Load, Street and Sentinel Lighting. Overall, the trend table shows a slow yet stable growth in customers. ORPC's load and customer projections support the Regional Economic Outlook Summary which indicates that population growth is expected to remain low in 2015 and 2016. Economic conditions in the Kingston-Pembroke region improved modestly in 2013 over the previous year with more employment growth, particularly in full-time, with housing activity and non-residential investment spending holding up. However, there was a sharp fall in public sector building permits following two above-average years. Population growth remained stuck at a low pace in the region at just above zero due to lower net migration and natural increase.

While Kingston labour market posted a 2.1 percent gain, the rest of the region has seen no job gain in 2013. Kingston's housing market activity is outperforming the rest of the region as well as more residential construction starts. In addition, population growth in the Kingston was about 0.8 percent on positive net migration and natural increase, while a slight contraction occurred in the rest of the region, according to the latest Statistics Canada data.

The weaker performance in the region outside of Kingston reflects its industry makeup and the struggling manufacturing sector. The region's manufacturing footprint has shrunk over the past decade, reflecting a broader industry trend evident in other Ontario regions. It also reflects the challenges faced in most parts of rural Ontario and Canada with its relatively narrow economic base and concentration in slow growing or declining industries. Its younger residents are increasingly drawn to larger urban centres leaving a relatively older population.

Following a small gain in 2013, total employment is forecast to edge lower in 2014 to hold slow but steady through 2015. However, sluggishness will persist through 2016. A downward trend in the labour force participation rate is expected to keep the unemployment rate just under seven percent. These economic conditions will generate downside trends in business investment in the region.

Population growth is expected to remain low in 2015 and 2016. Net migration at just under 1,000 persons per year and negative natural increase highlight the population forecast. Until the region generates more job growth or becomes more attractive for non-employment migration, low population growth will prevail.

Housing market activity will largely reflect economic conditions and population growth. Low mortgage rates are expected during the forecast and will underpin housing sales and housing prices. Housing sales are forecast sliding lower while the average MLS® sale price holds near current levels. A modest decline in new housing construction appears in the cards. The following table shows the summarized economic outlook for the region.

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Table 3.3: Summary of Economic Outlook

REGIONAL ECONOMIC OUTLOOK SUMMARY: KINGSTON-PEMBROKE

	2011	2012	2013	2014	2015
Labour Force (Thousands)	234.5	229.8	230.0	229.0	228.0
% change	5.9	-2.0	0.1	-0.4	-0.4
Employment (Thousands)	217.4	213.0	216.0	213.0	213.0
% change	6.9	-2.0	1.4	-1.4	0.0
Unemployment Rate (%)	7.3	7.3	6.6	7.0	6.6
Housing Sales (Units)	7,461	7,685	7,200	7,000	6,900
% change	0.6	3.0	-6.3	-2.8	-1.4
Housing Prices ($ Average)	234,511	240,440	247,000	249,000	250,000
% change	4.2	2.5	2.7	0.8	0.4
Residential Building Permits (Units)	2,066	1,928	1,975	1,800	1,750
% change	-5.7	-6.7	2.4	-8.9	-2.8
Private Non-Res Building Permits ($mllions)	159	173	180	165	150
% change	-35.1	9.0	4.2	-8.3	-9.1
Public Non-Res Building Permits ($millions)	176	126	75	65	85
% change	217.7	-28.3	-40.6	-13.3	30.8
Population (Thousands)	461.2	462.0	463.0	464.0	464.9
% change	0.2	0.2	0.2	0.2	0.2
Net Migration	1,128	1,001	1,000	950	900

2 *Source: Statistics Canada, CREA, Central 1 Credit Union forecasts.*

3

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Ex.3/Tab 2/Sch.1 - Overview of Wholesale Purchases

Ottawa Rive Power purchases its power from four suppliers namely; Hydro One, Brookfield Energy Marketing LP, Mississippi River Power Corporation and Enerdu Power Systems Inc. The following table outlines the unadjusted monthly wholesale purchases.

Table 3.4: Unadjusted Wholesale Purchases 2004-2013

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
January	23,375,223	20,121,798	19,930,522	18,319,619	21,876,886	21,755,879	21,239,546	19,353,300	20,811,742	2,00,992.90
February	19,532,450	20,144,053	20,103,742	18,192,995	20,243,845	17,815,005	18,549,948	18,577,263	18,188,849	19,226,108
March	18,788,975	18,617,454	18,408,483	18,595,476	17,337,917	15,902,024	17,502,909	17,771,680	17,633,487	17,456,699
April	16,627,361	15,813,970	16,371,659	13,653,102	15,916,363	14,463,640	16,336,449	14,737,358	14,561,832	15,348,468
May	15,334,366	14,937,402	14,545,862	13,261,224	14,633,884	14,660,940	14,621,070	14,470,449	13,925,726	14,153,569
June	17,387,212	15,216,019	15,445,020	14,214,620	14,792,272	14,032,950	15,547,544	15,810,906	14,261,992	15,797,161
July	16,573,582	17,288,815	15,701,638	14,468,868	14,407,934	17,609,345	16,379,523	15,758,011	15,840,371	14,657,239
August	15,704,074	14,646,590	15,347,848	16,066,893	16,285,993	14,962,495	14,663,820	16,774,606	15,748,089	14,519,949
September	15,074,614	14,317,893	15,532,450	14,339,118	14,255,142	13,562,495	14,622,898	13,197,164	13,142,570	11,739,127
October	14,827,972	16,184,185	14,439,653	15,216,339	15,853,362	15,412,187	14,379,978	13,562,663	14,838,362	14,153,187
November	16,770,749	16,855,953	18,194,599	17,594,470	16,088,470	16,686,330	15,622,869	16,710,915	16,708,053	16,001,153
December	20,488,552	19,706,059	21,797,378	20,548,340	19,679,147	20,238,955	20,156,457	18,046,844	22,597,984	18,583,491
Total	210,485,129	203,850,191	205,818,856	194,471,065	201,371,215	197,102,244	199,623,009	194,771,161	198,259,056	194,545,791

The utility load has been slowly declining over the past 10 years, with wholesale purchases decreasing by seven and a half per cent from 2005 to 2014. This decline is mainly due to the loss of nearly 150 GS<50 customers and the effects of energy efficient changes due to the implementation of conservation measures.

The loss of a general service >50 customer also affected historical loads. In order to better represent the trend in wholes purchases, ORPC 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 utility adjusted the wholesale purchases to remove the consumption associated with a larger GS>50 customer who eventually shut down its operations in early 2010. The utility removed approximately 2.2M kWh between January 2005 and February 2010. The table below shows the adjusted monthly wholesale purchases after removal of the GS< 50 customer.

Table 3.5: Adjusted Wholesale Purchases 2004-2013

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
January	23,335,023	20,077,998	19,878,922	18,286,019	21,851,521	21,744,465	21,239,546	19,353,300	20,811,742	20,000,992.90
February	19,481,450	20,103,853	20,050,342	18,157,595	20,219,114	17,805,493	18,549,948	18,577,263	18,188,849	19,226,108.92
March	18,728,375	18,576,054	18,353,283	18,569,676	17,309,381	15,902,024	17,502,909	17,771,680	17,633,487	17,456,699.59
April	16,590,761	15,774,970	16,320,059	13,621,302	15,890,997	14,463,640	16,336,449	14,737,358	14,561,832	15,348,468.49
May	15,285,766	14,896,602	14,497,262	13,231,224	14,608,518	14,660,940	14,621,070	14,470,449	13,925,726	14,153,569.25
June	17,326,612	15,176,419	15,401,820	14,189,420	14,773,248	14,032,950	15,547,544	15,810,906	14,261,992	15,797,161.31
July	16,553,182	17,264,815	15,683,038	14,452,668	14,397,154	17,609,345	16,379,523	15,758,011	15,840,371	14,657,239.13
August	15,636,274	14,607,590	15,301,048	16,044,093	16,259,993	14,962,495	14,663,820	16,774,606	15,748,089	14,519,949.39
September	15,016,414	14,275,293	15,495,250	14,315,021	14,231,045	13,562,495	14,622,898	13,197,164	13,142,570	11,739,127.05
October	14,771,572	16,145,185	14,401,253	15,187,168	15,831,167	15,412,187	14,379,978	13,562,663	14,838,362	14,153,187.04
November	16,708,349	16,804,953	18,155,599	17,567,836	16,076,421	16,686,330	15,622,869	16,710,915	16,708,053	16,001,153.54
December	20,437,552	19,664,059	21,764,978	20,524,877	19,667,098	20,238,955	20,156,457	18,046,844	22,597,984	18,583,491.75
Total	209,871,329	203,367,791	205,302,856	194,146,900	201,115,656	197,081,317	199,623,009	194,771,161	198,259,056	194,545,791

Ex.3/Tab 2/Sch.2 - Overview of Variables Used

The purpose of a multiple regression equation is to predict a single dependent variable from multiple independent variables. Several variables and the interactions among each variables, affects overall electricity purchases. Various combinations of economic drivers were tested using different model specifications while adding and removing independent variables one at a time. Results from these various scenarios can be found in the excel model filed in conjunction with this application. The decision to add/delete a variable is made on the basis of whether that variable improves the accuracy of the model. The variables listed below were used as initial inputs for the purpose of regression analysis.

- Heating Degree Days (included)
- Cooling Degree Days (included)
- Full Time Employment for Kingston Pembroke (rural) (rejected)
- Seasonal Flag (included)
- Days/month (included)
- Holiday months (included)

In ORPC's case, variation in monthly electricity consumption is influenced by five main factors – weather (e.g. heating and cooling), which is by far the most dominant effect for most systems; employment factors (increases or decreases in economic activity leads to changes in employment); seasonality, in this case, winter flag factors and lastly the number of days per month. Specifics relating to each variable used in the regression analysis are presented at the next section.

Heating and Cooling:
In order to determine the relationship between observed weather and energy consumption, monthly weather observations describing the extent of heating or cooling required within the month are necessary. Environment Canada publishes monthly observations on heating degree days (HDD) and cooling degree days (CDD) for selected weather stations across Canada. Heating degree-days for a given day are the number of Celsius degrees that the mean temperature is below 18°C. Cooling degree-days for a given day are the number of Celsius

degrees that the mean temperature is above 18°C. For Ottawa River Power, the monthly HDD and CDD as reported at Ottawa International Airport were used.

ORPC has adopted the 10 year average from 2005 to 2014 as the definition of weather normal. The 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. Many other LDCs have also adopted this definition for the purposes of cost-of-service rebasing. The following tables outlines the monthly weather data used in the regression analysis.

Table 3.6: HDD and CDD as reported at Ottawa International Airport

	2004		2005		2006		2007		2008		2009		2010		2011		2012		2013	
	HDD	CDD	HDD	CDD	HDD	CDD	HDD	CDD	HDD	CDD	HDD	CDD	HDD	CDD	HDD	CDD	HDD	CDD	HDD	CDD
Jan	921	0	734	0	797	0	754	0	980	840	789	0	893	0	831	0	840	0	918.30	0.00
Feb	701	0	721	0	820	0	774	0	712	729	656	0	729	0	671	0	729	0	793.20	0.00
Mar	669	0	600	0	643	0	721	0	598	580	461	0	636	0	460	0	580	0	783.60	0.00
Apr	325	0	322	0	361	0	300	0	334	286	258	0	347	0	363	3	286	0	384.20	0.00
May	205	2	128	17	157	0	185	0	182	106	112	2	143	17	96	21	106	15	127.30	8.80
Jun	16	112	28	48	34	17	22	0	50	54	38	38	19	59	0	70	54	39	20.30	54.90
Jul	3	129	0	131	12	67	0	61	13	8	5	33	0	138	0	142	8	111	7.70	62.80
Aug	8	115	18	68	20	65	14	79	26	13	15	151	2	82	8	98	13	57	21.40	55.80
Sep	59	33	121	5	76	79	95	50	107	133	112	93	55	33	127	21	133	10	110.30	21.60
Oct	270	6	336	0	228	26	322	25	356	236	311	26	259	1	243	0	236	1	257.90	3.10
Nov	484	0	417	0	517	2	503	0	417	561	492	0	393	0	542	0	561	0	510.60	0.00
Dec	762	0	610	0	788	0	797	0	759	858	731	0	415	0	681	0	858	0	696.40	0.00

Employment Factor:

In order to measure the change in economic activity, a data series must be chosen which represents, as much as possible, regional economic activity. Ottawa River Power used the monthly full-time employment levels for the Kingston-Pembroke economic region, as reported in Statistics Canada's Monthly Labour Force Survey (CANSIM).

The following table outlines the full-time employment levels for the Kingston-Pembroke economic region which were tested but ultimately rejected due to their negative correlation and coefficient. Since it's somewhat unusual to discount employment levels as a variable, ORPC included a full scenario and the impacts on wholesale purchases in its load forecast model.

Table 3.6-full-time employment levels for the Kingston Pembroke economic region

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Jan	357	360	362	364	366	368	369	371	373	374
Feb	357	360	362	364	366	368	369	372	373	374
Mar	357	360	362	364	366	368	369	372	373	374
Apr	357	360	362	364	366	368	370	372	373	374
May	358	361	362	364	366	368	370	372	373	374
Jun	358	361	362	365	367	368	370	372	373	374
Jul	358	361	363	365	367	369	370	372	373	375

Aug	359	361	363	365	367	369	371	373	373	375
Sept	359	361	363	366	367	369	371	373	374	375
Oct	359	361	363	366	368	369	371	373	374	375
Nov	360	361	363	366	368	369	371	373	374	375
Dec	360	362	364	366	368	369	371	373	374	375

Holiday Month Flag:

ORPC tested and ultimately used a "Holiday Month" to identify high usage months due to holidays. For example, many factors can affect a utility's load during the month of December and March. Typically, there are more people at home throughout the day during December. Christmas decoration are also known to use more electricity, Retail stores tend to stay open for longer periods of time. Energy audits of schools often find high levels of energy consumption even during holidays when there are few people in the buildings. This is either because of poor energy management practices, or lack of suitable controls on equipment. March of course has the school break week which also contributes to higher loads.

Seasonal Dummy Flag:

ORPC used a "Winter Flag" rather than the more widely used "Spring and Fall Flag". This utility specific flag was created following the analysis of the Wholesale purchases which showed higher purchases in the months of November, December and January than the rest of the seasons including the summer months. The assumption is that consumers are not using as much air conditioning during the summer months as one would expect however, it would appear that consumers depend heavily on electricity to heat their homes or businesses during the winter months. Table 3.7 below shows the per month/season analysis behind the "Winter Flag" rational.

Table 3.7- Seasonal Dummy Flag

2014	September	11,739,127	2013	April	14,561,832	2011	November	15,622,869	2005	November	16,708,349	2014	December	18,583,492
2013	September	13,142,570	2006	August	14,607,590	2005	August	15,636,274	2012	November	16,710,915	2005	March	18,728,375
2012	September	13,197,164	2009	May	14,608,518	2007	July	15,683,038	2012	August	16,774,606	2014	February	19,226,109
2008	May	13,231,224	2011	May	14,621,070	2013	August	15,748,089	2006	November	16,804,953	2012	January	19,353,300
2010	September	13,562,495	2011	September	14,622,898	2012	July	15,758,011	2006	July	17,264,815	2005	February	19,481,450
2012	October	13,562,663	2014	July	14,657,239	2006	April	15,774,970	2009	March	17,309,381	2006	December	19,664,059
2008	April	13,621,302	2010	May	14,660,940	2014	June	15,797,161	2005	June	17,326,612	2009	December	19,667,098
2013	May	13,925,726	2011	August	14,663,820	2012	June	15,810,906	2014	March	17,456,700	2007	January	19,878,922
2010	June	14,032,950	2012	April	14,737,358	2009	October	15,831,167	2011	March	17,502,909	2014	January	20,000,993
2014	October	14,153,187	2005	October	14,771,572	2013	July	15,840,371	2008	November	17,567,836	2007	February	20,050,342
2014	May	14,153,569	2009	June	14,773,248	2009	April	15,890,997	2010	July	17,609,345	2006	January	20,077,998
2008	June	14,189,420	2013	October	14,838,362	2010	March	15,902,024	2013	March	17,633,487	2006	February	20,103,853
2009	September	14,231,045	2006	May	14,896,602	2014	November	16,001,154	2012	March	17,771,680	2011	December	20,156,457
2013	June	14,261,992	2010	August	14,962,495	2008	August	16,044,093	2010	February	17,805,493	2009	February	20,219,114
2006	September	14,275,293	2005	September	15,016,414	2009	November	16,076,421	2012	December	18,046,844	2010	December	20,238,955
2008	September	14,315,021	2006	June	15,176,419	2006	October	16,145,185	2007	November	18,155,599	2005	December	20,437,552
2011	October	14,379,978	2008	October	15,187,168	2009	August	16,259,993	2008	February	18,157,595	2008	December	20,524,877
2009	July	14,397,154	2005	May	15,285,766	2007	April	16,320,059	2013	February	18,188,849	2013	January	20,811,742
2007	October	14,401,253	2007	August	15,301,048	2011	April	16,336,449	2008	January	18,286,019	2011	January	21,239,546
2008	July	14,452,668	2014	April	15,348,468	2011	July	16,379,523	2007	March	18,353,283	2010	January	21,744,465
2010	April	14,463,640	2007	June	15,401,820	2005	July	16,553,182	2011	February	18,549,948	2007	December	21,764,978
2012	May	14,470,449	2010	October	15,412,187	2005	April	16,590,761	2008	March	18,569,676	2009	January	21,851,521
2007	May	14,497,262	2007	September	15,495,250	2010	November	16,686,330	2006	March	18,576,054	2013	December	22,597,984
2014	August	14,519,949	2011	June	15,547,544	2013	November	16,708,053	2012	February	18,577,263	2005	January	23,335,023

Lastly, ORPC also used a "Days per month" variable. Although the variables did not yield particularly significant results, it did slightly improve the R-Square and therefore ORPC opted to keep it as a variable. All relevant scenarios tested by the utility can be found in the regression model at tab 6.1 entitled Regression Scenarios.

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. ORPC also used a correlation function to examine the relationship between the variables included in the analysis. The results of the correlation analysis for each scenario can also be found at tab 6.1 entitled Regression Scenarios.

To project the adjusted wholesale purchases for the bridge and test year, the model uses for the most part, a simple average of the last 10 years of historical data. ORPC has applied this method of prediction to all variables.

Note that Ottawa River Power did not use the number of customer as a variable because monthly historical counts were not readily available until 2011.

Origin of variables

- HDD: Stats Canada
- CDD : Stats Canada
- Winter: Computed by ORPC
- Employment: Stats Canada
- Cust count: Computed by ORPC
- AVG Temp: Stats Canada
- Shutdown months: Computed by ORPC
- CPI (Ontario): Stats Canada table 236-000
- Day per Month: Computed by ORPC

Ex.3/Tab 2/Sch.3 - Regression Results

Table 3.9 below presents the regression results used to determine the load forecast

Table 3.9: Correlation/Regression Results

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.926682236
R Square	0.858739966
Adjusted R Square	0.85254435
Standard Error	912139.5248
Observations	120

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	5	5.76594E+14	1.15319E+14	138.6044634	9.50686E-47
Residual	114	9.48478E+13	8.31999E+11		
Total	119	6.71441E+14			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	8741032.486	4558814.727	1.917391473	0.057690619	-289944.3774	17772009.35	-289944.3774	17772009.35
HDD	6535.989424	697.1191117	9.375714013	7.91933E-16	5155.001833	7916.977016	5155.001833	7916.977016
CDD	23882.23836	3791.017531	6.299690827	5.77789E-09	16372.26183	31392.21489	16372.26183	31392.21489
WinterFlag	1602289.425	330721.5892	4.844828633	4.02765E-06	947132.5039	2257446.346	947132.5039	2257446.346
Holiday Months	349016.3711	318903.2498	1.094427138	0.276074687	-282728.5106	980761.2528	-282728.5106	980761.2528
Days in Months	147431.6978	148056.8776	0.995777435	0.321467236	-145867.8364	440731.2321	-145867.8364	440731.2321

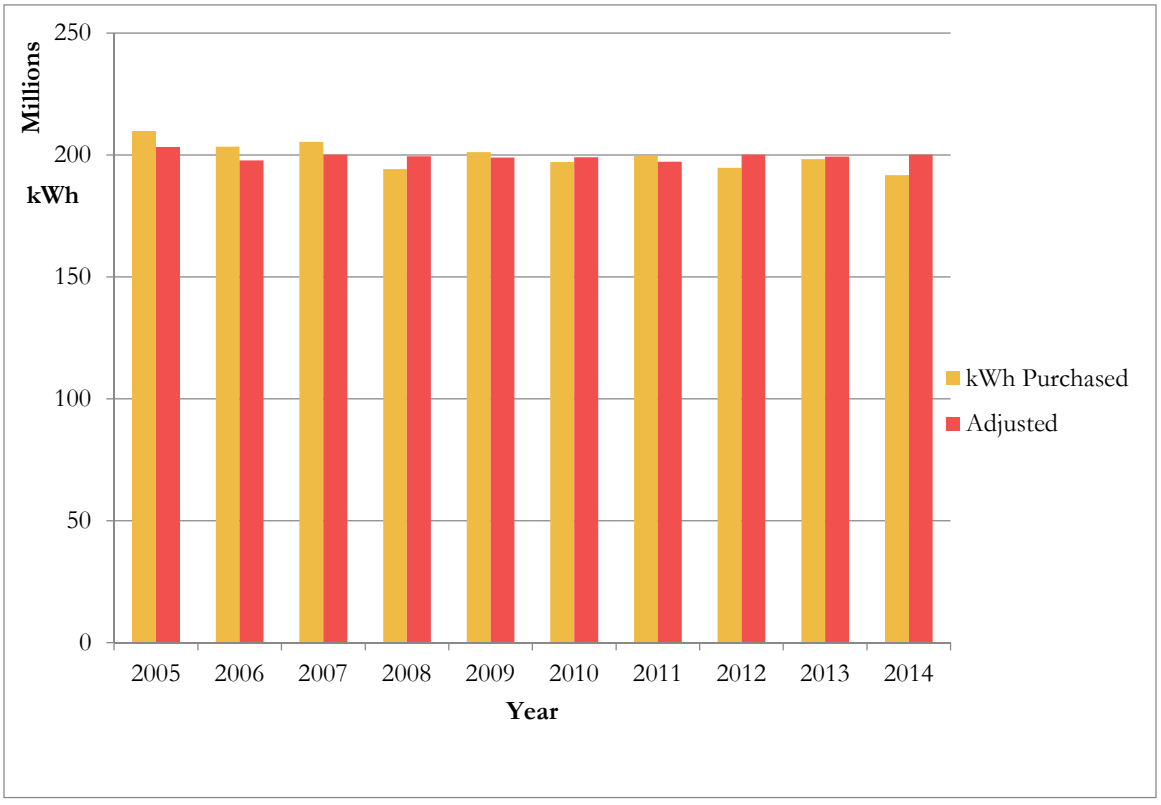
The resulting regression equation yields an adjusted R-squared of 0.85. When actual annual wholesale values are compared to annual values predicted by the regression equation, the mean absolute percentage error (MAPE) is 2.22 per cent. More detailed model statistics can be found in the next section.

Once the utility has calculated its preferred Regression Results, the Load Forecast model then uses the coefficients from the regression results to adjust the wholesale purchases. Table 3.10 as seen below, demonstrates the results of this adjustment. The table shows a comparison of the actual and adjusted wholesale purchases. Following table 3.9, Chart 3.10 graphs Actual Purchases vs Adjusted.

Table 3.10: Purchased vs Weather Adjusted

kWh Predicted Vs. Actual					
Year	kWh Purchased	year over year	Adjusted	year over year	Purch. VS Adj.
2005	209,871,328.75		203,293,901.56		-3.13%
2006	203,367,791.46	-3.10%	197,705,360.17	-2.75%	-2.78%
2007	205,302,856.46	0.95%	200,129,976.48	1.23%	-2.52%
2008	194,146,899.86	-5.43%	199,499,870.72	-0.31%	2.76%
2009	201,115,656.46	3.59%	198,852,587.20	-0.32%	-1.13%
2010	197,081,317.46	-2.01%	199,110,325.83	0.13%	1.03%
2011	199,623,009.44	1.29%	197,163,923.49	-0.98%	-1.23%
2012	194,771,161.25	-2.43%	200,033,688.74	1.46%	2.70%
2013	198,259,056.01	1.79%	199,265,600.47	-0.38%	0.51%
2014	191,637,148.36	-3.34%	200,120,990.86	0.43%	4.43%

Table 3.11: Purchased VS Adjusted



In accordance with the Filing Requirements, ORPC has also provided a 2015 forecast assuming twenty-year normal weather conditions. Table 3.12 below displays 20 years of historical Heating Degree Days and Cooling Degree Days. The impact of using both a 10 year average as well as a 20 year average to weather normalize wholesale purchases is presented at Table 3.13 and Table 14 respectively.

Table 3.12: Forecast using a twenty year weather normalization

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	10 year avg	20 year avg
HDD																						
Jan	774	920	923	802	875	875	848	709	977	1045	921	734	797	754	980	789	893	831	840	918.3	846	860
Feb	796	783	736	610	671	728	747	669	842	750	701	721	820	774	712	656	729	671	729	793.2	731	732
Mar	537	656	678	576	646	502	652	652	675	559	669	600	643	721	598	461	636	460	580	783.6	615	614
Apr	435	418	379	286	337	391	338	359	425	378	325	322	361	300	334	258	347	363	286	384.2	328	351
May	148	188	241	44	83	152	110	228	154	166	205	128	157	185	182	112	143	96	106	127.3	144	148
Jun	19	21	12	43	20	63	26	62	39	54	16	28	34	22	50	38	19	0	54	20.3	28	32
Jul	7	2	11	3	4	12	22	5	2	2	3	0	12	0	13	5	0	0	8	7.7	5	6
Aug	9	14	14	8	15	18	5	7	13	30	8	18	20	14	26	15	2	8	13	21.4	15	14
Sep	159	84	121	82	66	138	90	57	60	67	59	121	76	95	107	112	55	127	133	110.3	100	96
Oct	238	314	334	271	322	291	266	370	337	287	270	336	228	322	356	311	259	243	236	257.9	282	292
Nov	612	575	553	453	407	489	410	535	469	484	484	417	517	503	417	492	393	542	561	510.6	484	491
Dec	851	635	755	648	692	883	602	728	722	815	762	610	788	797	759	731	415	681	858	696.4	710	721

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	10 year avg	20 year avg
CDD																						
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	10	0	2	0	0	0	0	3	2	0	3	0	0	1	1
May	6	8	0	29	31	3	14	7	0	4	2	17	17.3	0	3	38	17	21	15	9	14	12
Jun	86	52	79	78	100	31	76	40	55	27	112	48	66.9	61	45	33	59	70	39	55	59	61
Jul	126	68	96	89	142	59	78	121	90	87	129	131	65.1	79	43	151	138	142	111	63	105	100
Aug	79	79	41	86	58	60	128	107	106	48	115	68	79.3	50	82	93	82	98	57	56	78	79
Sep	5	34	4	12	50	14	26	51	24	11	33	5	25.7	25	5	26	33	21	10	22	21	22
Oct	1	0	0	0	0	0	0	4	0	0	6	0	1.9	0	0	0	1	0	1	3	1	1
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 3.13: Forecast using a ten year weather normalization

Date	20 Yr Avg HDD	20 Yr Avg CDD	Adj. Wholesale	Total Wholesale
2015-January	856.60	0.00	20,861,449	
2015-February	728.75	0.00	19,263,998	
2015-March	605.80	0.00	17,619,934	
2015-April	348.50	0.75	15,459,687	
2015-May	148.60	9.65	14,513,127	
2015-June	32.55	53.45	14,653,236	
2015-July	5.80	95.90	15,988,647	
2015-August	13.60	81.40	15,344,319	
2015-September	95.45	32.90	14,573,569	
2015-October	293.65	4.85	15,346,537	
2015-November	489.85	0.10	16,368,026	
2015-December	721.30	0.00	19,977,130	199,969,659.44
2016-January	856.60	0.00	20,861,449	
2016-February	728.75	0.00	19,266,947	
2016-March	605.80	0.00	17,619,934	
2016-April	348.50	0.75	15,459,687	
2016-May	148.60	9.65	14,513,127	
2016-June	32.55	53.45	14,653,236	
2016-July	5.80	95.90	15,988,647	
2016-August	13.60	81.40	15,344,319	
2016-September	95.45	32.90	14,573,569	
2016-October	293.65	4.85	15,346,537	
2016-November	489.85	0.10	16,368,026	
2016-December	721.30	0.00	19,977,130	199,972,608.07

Table 3.14: Forecast Using a Twenty Year Weather Normalization

Date	10 Yr Avg HDD	10 Yr Avg CDD	Adj. Wholesale	Total Wholesale
2015-January	845.21	0.00	20,787,005	
2015-February	730.78	0.00	19,277,266	
2015-March	615.04	0.00	17,680,326	
2015-April	327.99	0.73	15,325,157	
2015-May	144.16	13.93	14,586,323	
2015-June	31.26	58.93	14,775,679	
2015-July	4.83	105.05	16,200,829	
2015-August	14.74	78.03	15,271,287	
2015-September	99.63	20.55	14,305,944	
2015-October	281.71	1.35	15,184,910	
2015-November	483.63	0.00	16,324,984	
2015-December	693.88	0.00	19,797,913	199,517,622.55
2016-January	837.66	0.00	20,737,664	
2016-February	733.80	0.00	19,299,940	
2016-March	609.66	0.00	17,645,189	
2016-April	328.31	0.80	15,328,985	
2016-May	138.08	15.13	14,575,288	
2016-June	32.78	53.66	14,659,800	
2016-July	5.02	102.70	16,145,848	
2016-August	15.37	74.29	15,186,183	
2016-September	103.67	19.30	14,302,397	
2016-October	282.91	0.85	15,180,699	
2016-November	483.57	0.00	16,324,611	
2016-December	687.07	0.00	19,753,390	199,139,994.65

Ex.3/Tab 2/Sch.4 - Determination of Customer Forecast

ORPC has used a simple geometric mean function to determine the forecasted number of customers of 2015 and 2016. 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 ORPC's natural customer growth. The geometric mean results were analyzed by ORPC and then further adjusted for known particulars. Historic customer counts and projected customer counts for 2015 and 2016 are presented in Table 3.15 below. A variance analysis of customer counts and projections is presented at Ex.3/Tab 3/Sch.1

Table 3.15: Customer Forecast

	Residential		General Service < 50 kW		Unmetered Scattered Load		General Service > 50 kW - 4999 kW		Streetlighting		Sentinel Lighting	
Date	Customers or Connections	Growth Rate	Customers or Connections	Growth Rate	Customers or Connections	Growth Rate	Customers or Connections	Growth Rate	Customers or Connections	Growth Rate	Customers or Connections	Growth Rate
2005	8,625		1,496		17		134		2,604		250	
2006	8,696	1.0082	1,449	0.9686	20	1.1765	136	1.0149	2,635	1.0119	225	0.9000
2007	8,809	1.0130	1,442	0.9952	20	1.0000	136	1.0000	2,648	1.0049	225	1.0000
2008	8,809	1.0000	1,409	0.9771	20	1.0000	143	1.0515	2,653	1.0019	226	1.0044
2009	8,941	1.0150	1,394	0.9894	20	1.0000	144	1.0070	2,701	1.0181	226	1.0000
2010	8,955	1.0016	1,372	0.9842	20	1.0000	148	1.0278	2,713	1.0044	216	0.9558
2011	9,030	1.0084	1,370	0.9985	20	1.0000	145	0.9797	2,769	1.0206	209	0.9676
2012	9,087	1.0063	1,362	0.9938	20	1.0000	145	1.0000	2,775	1.0020	209	0.9976
2013	9,195	1.0119	1,333	0.9787	20	1.0000	146	1.0034	2,787	1.0045	207	0.9904
2014	9,305	1.0120	1,318	0.9891	20	1.0000	147	1.0069	2,803	1.0056	204	0.9879
Geomean		*1.0085*		*0.9860*		*1.0182*		*1.0100*		*1.0082*		*0.9777*
2015	9,384		1,300		20		148		2,825		199	
2016	9,463		1,281		21		149		2,849		195	

Ex.3/Tab 2/Sch.5 - Determination of Weather Normalized Forecast

Allocation to specific weather sensitive rate classes (Residential, GS<50, GS>50) is based on the share of each classes' actual retail kWh (exclusive of distribution losses) and a share of actual wholesale kWh. Weather normalized wholesale kWh, for historical years, are allocated to these classes based on these historical shares. Forecast values for 2015 and 2016 are allocated based on the most recent year's (2014) actual share. For those rate classes that use kW consumption as a billing determinant, sales for these customer classes are then converted to kW based on the historical volumetric relationship between kWh and kW.

Annual estimates using actual weather are compared to actual values in Table 3.16 below. Mean absolute percentage error (Statistically, MAPE is defined as the average of percentage errors) of annual estimates for the period is 2.22%. The median is calculated at 2.61%.

Table 3.16: Actual vs. Predicted Wholesale kWh

Year	kWh Purchased	Adjusted	
2005	209,871,328.75	203,293,901.56	3.13%
2006	203,367,791.46	197,705,360.17	2.78%
2007	205,302,856.46	200,129,976.48	2.52%
2008	194,146,899.86	199,499,870.72	2.76%
2009	201,115,656.46	198,852,587.20	1.13%
2010	197,081,317.46	199,110,325.83	1.03%
2011	199,623,009.44	197,163,923.49	1.23%
2012	194,771,161.25	200,033,688.74	2.70%
2013	198,259,056.01	199,265,600.47	0.51%
2014	191,637,148.36	200,120,990.86	4.43%
Mean Average Percentage Error (Mape) :			2.22%
Median			2.61%

Ex.3/Tab 2/Sch.6 - Load Forecast by Class.

The following section presents class specific adjusted historic and forecast values for those classes that have weather sensitive load. Historic class specific kWh consumption is allocated based on each class' share in wholesale kWh, exclusive of distribution losses. Forecast class values are allocated based on the class share for 2014.

Tables 3.17 to 3.21 show historical and forecasted details for each of the weather sensitive classes.

Table 3.17: Residential Forecast

Residential						
Year	Residential Metered kWh	Wholesale Purchases	Weather Normalized	*Ratio%* *	Weather Normal	Per customer
2005	76,867,401	209,871,329	203,293,902	36.63%	74,458,355	8,633
2006	80,301,785	203,367,791	197,705,360	39.49%	78,065,918	8,977
2007	78,894,594	205,302,856	200,129,976	38.43%	76,906,739	8,730
2008	78,894,594	194,146,900	199,499,871	40.64%	81,069,856	9,203
2009	76,058,961	201,115,656	198,852,587	37.82%	75,203,102	8,411
2010	75,301,012	197,081,317	199,110,326	38.21%	76,076,258	8,495
2011	79,270,520	199,623,009	197,163,923	39.71%	78,294,014	8,670
2012	78,553,744	194,771,161	200,033,689	40.33%	80,676,190	8,879
2013	80,138,214	198,259,056	199,265,600	40.42%	80,545,069	8,760
2014	79,483,998	191,637,148	200,120,991	41.48%	83,002,782	8,920
2015			199,517,623	41.48%	82,752,527	8,893
2016			199,139,995	41.48%	82,595,901	8,877

Table 3.18: General Service <50 Forecast

General Service < 50 kW						
Year	GS<50 Metered kWh	Wholesale Purchases	Weather Normalized	*Ratio%* *	Weather Normal	Per customer
2005	43,814,909	209,871,329	203,293,902	20.88%	42,441,737	28,370
2006	39,580,098	203,367,791	197,705,360	19.46%	38,478,057	26,555
2007	35,721,757	205,302,856	200,129,976	17.40%	34,821,700	24,148
2008	35,801,702	194,146,900	199,499,871	18.44%	36,788,818	26,110
2009	34,198,078	201,115,656	198,852,587	17.00%	33,813,262	24,256
2010	33,358,217	197,081,317	199,110,326	16.93%	33,701,649	24,564
2011	32,279,016	199,623,009	197,163,923	16.17%	31,881,382	23,271
2012	31,948,521	194,771,161	200,033,689	16.40%	32,811,739	24,100
2013	31,708,039	198,259,056	199,265,600	15.99%	31,869,018	23,917
2014	31,649,726	191,637,148	200,120,991	16.52%	33,050,870	25,077
2015			199,517,623	16.52%	32,951,221	25,001
2016			199,139,995	16.52%	32,888,855	24,954

Table 3.19: General Service >50 Demand (kW)

General Service > 50 kW - 4999 kW						
Year	GS>50 Metered kWh	Wholesale Purchases	Weather Normalized	*Ratio%* *	Weather Normal	Per customer
2005	74,429,057	209,871,329	203,293,902	35.46%	72,096,429	538,033
2006	75,435,895	203,367,791	197,705,360	37.09%	73,335,510	539,232
2007	78,527,667	205,302,856	200,129,976	38.25%	76,549,057	562,861
2008	78,693,630	194,146,900	199,499,871	40.53%	80,863,352	565,478
2009	78,622,636	201,115,656	198,852,587	39.09%	77,737,929	539,847
2010	76,510,235	197,081,317	199,110,326	38.82%	77,297,929	522,283
2011	74,853,997	199,623,009	197,163,923	37.50%	73,931,897	509,875
2012	74,516,293	194,771,161	200,033,689	38.26%	76,529,651	527,791
2013	73,596,923	198,259,056	199,265,600	37.12%	73,970,569	508,389
2014	72,512,849	191,637,148	200,120,991	37.84%	75,723,018	516,881
2015			199,517,623	37.84%	75,494,712	515,322
2016			199,139,995	37.84%	75,351,822	514,347

Table 3.20: Sentinel Lighting

Sentinel Lighting								
Year	**kWh**	**Adjusted kWh**	**kWh**	**kW**	**Customer/ Connection**	**kWh per connection**	**KW per connection**	**KW/kWh Ratio**
2005	284,178		284,178	783	250	1,136.71	3.132	0.00276
2006	267,504		267,504	767	225	1,188.91	3.409	0.00287
2007	266,011		266,011	766	225	1,182.27	3.404	0.00288
2008	262,124		262,124	751	226	1,159.84	3.323	0.00287
2009	265,370		265,370	756	226	1,174.20	3.345	0.00285
2010	233,686		233,686	766	216	1,081.88	3.546	0.00328
2011	270,899		270,899	734	209	1,296.17	3.512	0.00271
2012	243,747		243,747	713	209	1,169.05	3.420	0.00293
2013	270,899		270,899	700	207	1,311.86	3.390	0.00258
2014	245,570		245,570	684	204	1,203.78	3.350	0.00278
2015	244,830		244,830	698	199	1,227.57	3.498	
2016	244,367		244,367	696	195	1,253.25	3.571	
Avg - Years =			10.00			*1,190.47*	*3.3832*	*0.00285*

Table 3.21- Unmetered Scattered Load

Unmetered Scattered Load								
Year	**kWh**	**Adjusted kWh**	**kWh**	**kW**	**Customer/ Connection**	**kWh per connection**	**KW per connection**	**KW/kWh Ratio**
2005	593,390		593,390	0	17	34,905.29	-	-
2006	364,006		364,006	0	20	18,200.30	-	-
2007	348,199		348,199	0	20	17,409.95	-	-
2008	386,944		386,944	0	20	19,347.20	-	-
2009	437,952		437,952	0	20	21,897.61	-	-
2010	458,526		458,526	0	20	22,926.32	-	-
2011	469,307		469,307	0	20	23,465.35	-	-
2012	448,159		448,159	0	20	22,407.95	-	-
2013	453,471		453,471	0	20	22,673.54	-	-
2014	454,406		454,406	0	20	22,720.31	-	-
2015	453,036		453,036	0	20	22,651.81	-	
2016	452,179		452,179	0	20	22,608.94	-	
Avg - Years =			10.00			*22,595.38*	*0.0000*	*0.00000*

Streetlighting								
Year	kWh	Adjusted kWh	kWh	kW	Customer/ Connection	kWh per connection	KW per connection	KW/kWh Ratio
2005	2,426,613		2,426,613	6,774	2,604	931.88	2.601	0.00279
2006	2,517,491		2,517,491	6,784	2,635	955.40	2.575	0.00269
2007	2,426,477		2,426,477	6,778	2,648	916.34	2.560	0.00279
2008	2,370,504		2,370,504	6,728	2,653	893.52	2.536	0.00284
2009	2,414,487		2,414,487	6,652	2,701	893.92	2.463	0.00276
2010	2,383,707		2,383,707	6,766	2,713	878.62	2.494	0.00284
2011	2,458,955		2,458,955	6,840	2,769	888.03	2.470	0.00278
2012	2,432,690		2,432,690	6,768	2,775	876.80	2.440	0.00278
2013	2,424,249		2,424,249	6,766	2,787	869.84	2.428	0.00279
2014	2,439,792		2,439,792	6,770	2,803	870.58	2.416	0.00277
2015	2,432,436		2,432,436	6,772	2,825	860.90	2.397	
2016	2,427,832	- 1,156,000	1,271,832	3,541	2,849	446.47	1.243	
Avg - Years =			10.00			*897.49*	*2.4981*	*0.00278*

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Ex.3/Tab 2/Sch.7 - Final Normalized Load Forecast

Table 3.22 below presents historical and projected weather normalized Load Forecast by customer class.

Table 3.22: Final Load Forecast (not CDM adjusted)

	Year	2010	2011	2012	2013	2014	2015	2016
Residential-WN	Cust/Conn	8,955	9,030	9,087	9,195	9,305	9,384	9,463
	kWh	75,301,012	79,270,520	78,553,744	80,138,214	79,483,998	82,752,527	82,595,901
	kW	-	-	-	-	-	-	-
General Service < 50 kW-WN	Cust/Conn	1,372	1,370	1,362	1,333	1,318	1,300	1,281
	kWh	33,358,217	32,279,016	31,948,521	31,708,039	31,649,726	32,951,221	32,888,855
	kW	-	-	-	-	-	-	-
Unmetered Scattered Load-Non-WN/kW	Cust/Conn	20	20	20	20	20	20	20
	kWh	458,526	469,307	448,159	453,471	454,406	453,036	452,179
	kW	-	-	-	-	-	-	-
General Service > 50 kW – 4999 kW-Non-WN/kW	Cust/Conn	148	145	145	146	147	146	148
	kWh	76,510,235	74,853,997	74,516,293	73,596,923	72,512,849	72,294,221	72,157,390
	kW	202,775	203,575	207,916	216,501	206,399	198,904	198,527
Streetlighting-Non-WN/kW	Cust/Conn	2,713	2,769	2,775	2,787	2,803	2,825	2,849
	kWh	2,383,707	2,458,955	2,432,690	2,424,249	2,439,792	2,432,436	1,271,832
	kW	6,766	6,840	6,768	6,766	6,770	6,772	3,541
Sentinel Lighting-Non-WN/kW	Cust/Conn	216	209	209	207	204	199	195
	kWh	233,686	270,899	243,747	270,899	245,570	244,830	244,367
	kW	766	734	713	700	684	698	696
Total	**Cust/Conn**	**13,424**	**13,543**	**13,596**	**13,687**	**13,796**	**13,874**	**13,956**
	kWh	**188,245,383**	**189,602,695**	**188,143,155**	**188,591,795**	**186,786,342**	**191,128,272**	**189,610,523**
	kW	**210,307**	**211,149**	**215,397**	**223,967**	**213,852**	**206,374**	**202,765**

Impact and Persistence from Historical CDM Programs

Ex.3/Tab 3/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 ORPC's customers. The load forecast is a projection of the expected level of electricity purchases that would occur over the specified period in the absence of any CDM initiatives. Therefore, in accordance with the filing requirements, the forecasted energy purchases are further adjusted to reflect CDM reductions.

The schedule to achieve CDM targets are presented at Table 3.23 below:

Table 3.23: Ottawa River Power 2011-2014 CDM target

[OEB Appendix]

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

4 Year (2011-2014) kWh Target: 8,970,000					
	2011	2012	2013	2014	Total
2011 CDM Programs	8.90%	8.90%	8.80%	7.81%	34.40%
2012 CDM Programs		8.65%	8.65%	8.60%	25.90%
2013 CDM Programs			8.07%	8.07%	16.14%
2014 CDM Programs				22.63%	22.63%
Total in Year	8.90%	17.55%	25.52%	47.11%	99.07%
kWh					
2011 CDM Programs	798,000.00	798,000.00	789,000.00	701,000.00	3,086,000.00
2012 CDM Programs	- 16,000.00	776,000.00	776,000.00	771,000.00	2,307,000.00
2013 CDM Programs		99,000.00	724,000.00	724,000.00	1,547,000.00
2014 CDM Programs				2,030,000.00	2,030,000.00
Total in Year	782,000.00	1,673,000.00	2,289,000.00	4,226,000.00	8,970,000.00

2015-2020 CDM Program - 2015, first year of the current CDM plan

6 Year (2015-2020) kWh Target: 10,000,000							
	2015	2016	2017	2018	2019	2020	Total
				%			
2015 CDM Programs	16.67%						16.67%
2016 CDM Programs		16.67%					16.67%
2017 CDM Programs			16.67%				16.67%
2018 CDM Programs				16.67%			16.67%
2019 CDM Programs					16.67%		16.67%

2020 CDM Programs						16.67%	16.67%
Total in Year	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%	100.00%
			kWh				
2015 CDM Programs	1,666,666.67						1,666,666.67
2016 CDM Programs		1,666,666.67					1,666,666.67
2017 CDM Programs			1,666,666.67				1,666,666.67
2018 CDM Programs				1,666,666.67			1,666,666.67
2019 CDM Programs					1,666,666.67		1,666,666.67
2020 CDM Programs						1,666,666.67	1,666,666.67
Total in Year	1,666,666.67	1,666,666.67	1,666,666.67	1,666,666.67	1,666,666.67	1,666,666.67	10,000,000.00

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Weight Factor for Inclusion in CDM Adjustment to 2016 Load Forecast						
	2011	2012	2013	2014	2015	
Weight Factor for each year's CDM program impact on 2014 load forecast	0	0	0	1	0.5	Distributor can select "0", "0.5", or "1" from drop-down list
Default Value selection rationale.	*Full year persistence of 2011 CDM programs on 2015 load forecast. Full impact assumed because of 50% impact in 2011 (first year) but full year persistence impact on 2012 and 2013, and thus reflected in base forecast before the CDM adjustment.*	*Full year persistence of 2012 CDM programs on 2015 load forecast. Full impact assumed because of 50% impact in 2012 (first year) but full year persistence impact on 2013, and thus reflected in base forecast before the CDM adjustment.*	*Full year impact of persistence of 2013 CDM programs on 2015 load forecast, but 50% impact in base forecast (first year impact of 2013 CDM programs on 2013 load forecast, which is part of the data for the load forecast.*	*Full year impact of persistence of 2014 programs on 2015 load forecast. 2014 CDM programs not in base forecast.*	*Only 50% of 2015 CDM programs are assumed to impact the 2015 load forecast based on the "half-year" rule.*	

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

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

	2011 kWh	2012	2013	2014	2015	Total for 2014	Total for 2015
Amount used for CDM threshold for LRAMVA (2014)	701,000.00	771,000.00	724,000.00	2,030,000.00		4,226,000.00	

2011 CDM adjustment (per Board Decision in 2011 Cost of Service Application)	100,000.00	100,000.00	100,000.00	100,000.00		400,000.00	
Amount used for CDM threshold for LRAMVA (2015)					1,666,666.67		1,666,666.67
Manual Adjustment for 2015 Load Forecast (billed basis)	-	-	362,000.00	2,030,000.00	833,333.33		3,225,333.33

The values entered in the 2011-2014 report originate from the OPA issued report: 2006-2010 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 2006–2010 program portfolios for ORPC. ORPC used the Q4 report from the OPA. The most recent annual results of OPA CDM programs and the Q4 results are presented as an appendix to this Exhibit.

The values entered in the 2015-2020 originate from the "Conservation First Framework LDC Tool Kit" published July 1, 2014 which shows ORPC's targets and budgets to be 10.0GWh and a budget of 2.6M.

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

The overall CDM adjustment for 2016, as calculated above, is allocated on pro-rata basis (using kWh forecast) per class. Table 3.24 below presents the method behind ORPC's allocation of CDM reduction in consumption.

Table 3.24: CDM adjustments to Load Forecast

kWh		Year	2016	Share	Target	Adjusted (kWh)	Final Adjusted (kWh)
Residential		kWh	82,595,901	43.56%	1,404,982	81,190,920	81,190,920
General Service < 50 kW		kWh	32,888,855	17.35%	559,450	32,329,405	32,329,405
Unmetered Scattered Load		kWh	452,179	0.24%	7,692	444,487	444,487
General Service > 50 kW - 4999 kW		kWh	72,157,390	38.06%	1,227,419	70,929,970	70,929,970
Streetlighting		kWh	1,271,832	0.67%	21,634	1,250,197	1,250,197
Sentinel Lighting		kWh	244,367	0.13%	4,157	240,210	240,210
0.00		kWh	-	0.00%	0	0	0
Total			189,610,523	100.00%	3,225,333.33	186,385,189	186,385,189

		Year	2016	Adjusted (kWh)	Manual Reallocation	Final Adjusted (kWh)
Residential		kW	-	0	0	0
General Service < 50 kW		kW	-	0	0	0
Unmetered Scattered Load		kW	-	0	0	0
General Service > 50 kW - 4999 kW		kW	198,527	195,150	0	195,150
Streetlighting		kW	3,541	3,481	0	3,481
Sentinel Lighting		kW	696	685	0	685
0.00		kW	-	0	0	0
Total			202,765	199,316	0	199,316

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

Table 3.25 below provides details of the Final Customer and Volume Load Forecast for each of the years. This summary of the billing determinants by rate class will be used to develop ORPC's proposed rates.

Table 3.25: Final Customer and Volume Load Forecast

	Year	2010	2011	2012	2013	2014	2015	2016
Residential	Cust/Conn	8,955	9,030	9,087	9,195	9,305	9,384	9,463
	kWh	75,301,012	79,270,520	78,553,744	80,138,214	79,483,998	82,752,527	81,190,920
	kW	-	-	-	-	-	-	-
General Service < 50 kW	Cust/Conn	1,372	1,370	1,362	1,333	1,318	1,300	1,281
	kWh	33,358,217	32,279,016	31,948,521	31,708,039	31,649,726	32,951,221	32,329,405
	kW	-	-	-	-	-	-	-
Unmetered Scattered Load	Cust/Conn	20	20	20	20	20	20	20
	kWh	458,526	469,307	448,159	453,471	454,406	453,036	444,487
	kW	-	-	-	-	-	-	-
General Service > 50 kW - 4999 kW	Cust/Conn	148	145	145	146	147	146	148
	kWh	76,510,235	74,853,997	74,516,293	73,596,923	72,512,849	72,294,221	70,929,970
	kW	202,775	203,575	207,916	216,501	206,399	198,904	195,150
Streetlighting	Cust/Conn	2,713	2,769	2,775	2,787	2,803	2,825	2,849
	kWh	2,383,707	2,458,955	2,432,690	2,424,249	2,439,792	2,432,436	1,250,197
	kW	6,766	6,840	6,768	6,766	6,770	6,772	3,481
Sentinel Lighting	Cust/Conn	216	209	209	207	204	199	195
	kWh	233,686	270,899	243,747	270,899	245,570	244,830	240,210
	kW	766	734	713	700	684	698	685
Total	**Cust/Conn**	**13,424**	**13,543**	**13,596**	**13,687**	**13,796**	**13,874**	**13,956**
	kWh	**188,245,383**	**189,602,695**	**188,143,155**	**188,591,795**	**186,786,342**	**191,128,272**	**186,385,189**

Accuracy of Load Forecast and Variance Analysis

Ex.3/Tab 4/Sch.1 - Variance Analysis of Load Forecast

Table 3.26 below shows the yearly change in consumption for the Residential class.

Table 3.26: Residential Variance

Year	Cust	#chg	%chg	kWh	%chg
2005	8,625			76,867,401	
2006	8,696	71	1%	80,301,785	4%
2007	8,809	113	1%	78,894,594	-2%
2008	8,809	0	0%	78,894,594	0%
2009	8,941	132	1%	76,058,961	-4%
2010	8,955	14	0%	75,301,012	-1%
2011	9,030	75	1%	79,270,520	5%
2012	9,087	57	1%	78,553,744	-1%
2013	9,195	109	1%	80,138,214	2%
2014	9,305	110	1%	79,483,998	-1%
2015	9,384	79	1%	82,752,527	4%
2016	9,463	79	1%	81,190,920	-2%

The residential customer class has been growing slowly but steadily since 2005. The class has grown approximately 1% per year since 2004. Most of the anticipated residential growth will occur in Almonte as opposed to ORPC's other three service areas. Although Almonte no longer has a dominant industry, its proximity to Ottawa, (Almonte is located 46 kilometres (29 mi) south-west of downtown Ottawa) makes it an appealing place to live thus making it attractive to development builders. In the year 2000 when ORPC was formed, Almonte residential customers represented 22.1% of all residential customers of the corporation. In 2014 this has reached to over 26.3% of ORPC's residential customers. Residential counts are expected to grow by 79 in 2015 and 79 in 2016.

Table 3.27 below shows the yearly change in consumption for the GS<50 class.

Table 3.27- General Service < 50 kW Variance

Year	Cust	#chg	%chg	kWh	%chg
2005	1,496			43,814,909	
2006	1,449	-47	-3%	39,580,098	-10%
2007	1,442	-7	0%	35,721,757	-10%
2008	1,409	-33	-2%	35,801,702	0%
2009	1,394	-15	-1%	34,198,078	-4%
2010	1,372	-22	-2%	33,358,217	-2%
2011	1,370	-2	0%	32,279,016	-3%
2012	1,362	-9	-1%	31,948,521	-1%
2013	1,333	-29	-2%	31,708,039	-1%
2014	1,318	-15	-1%	31,649,726	0%
2015	1,300	-18	-1%	32,951,221	4%
2016	1,281	-18	-1%	32,329,405	-2%

The number of customers in the GS<50 kW class have been steadily declining over the past years. The utility anticipates this trend to continue. A portion of the difference is attributable to reclassification of customers from GS<50 to GS>50. The primary reason is due to the struggling manufacturing sector. As explained in the economic outlook, the region's manufacturing and retail footprint has shrunk over the past decade, reflecting the challenges faced in most parts of rural Ontario and Canada with its relatively narrow economic base and concentration in slow growing or declining industries. With stagnant employment levels, people tend to spend less and businesses, as a result, struggle to survive. ORPC anticipates a loss of 17 GS<50 customer for 2014 and another 17 customers in 2015. The methodology behind the projections for 2015 and 2016 are explained at Ex.3/Tab 1/Sch.1

Table 3.28 below shows the yearly change in consumption for the GS>50 class.

Table 3.28- General Service > 50 kW - 4999 kW Variance

Year	Cust	#chg	%chg	kWh	%chg	kW	
2005	134			74,429,057		212,943	
2006	136	2	1%	75,435,895	1%	207,000	-3%
2007	136	0	0%	78,527,667	4%	213,039	3%
2008	143	7	5%	78,693,630	0%	202,855	-5%
2009	144	1	1%	78,622,636	0%	209,853	3%
2010	148	4	3%	76,510,235	-3%	202,775	-3%
2011	145	-3	-2%	74,853,997	-2%	203,575	0%
2012	145	0	0%	74,516,293	0%	207,916	2%
2013	146	1	0%	73,596,923	-1%	216,501	4%
2014	147	1	1%	72,512,849	-1%	206,399	-5%
2015	146	-1	0%	72,294,221	0%	198,904	-4%
2016	148	2	1%	70,929,970	-2%	195,150	-2%

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. ORPC projects a modest increase of one additional customer in 2015 and 2 in 2016. The methodology behind the projections for 2015 and 2016 are also explained at Ex.3/Tab 1/Sch.1

Street Lighting, USL and Sentinel connections have also been historically stable. Table 3.29 below shows the yearly change in consumption for the Streetlights class.

Table 3.29- Streetlights Variance

Year	Cust		%chg	kWh	%chg	kW	%chg
2005	2,604			2,426,613		6,774	
2006	2,635	31	1%	2,517,491	4%	6,784	0%
2007	2,648	13	0%	2,426,477	-4%	6,778	0%
2008	2,653	5	0%	2,370,504	-2%	6,728	-1%
2009	2,701	48	2%	2,414,487	2%	6,652	-1%
2010	2,713	12	0%	2,383,707	-1%	6,766	2%
2011	2,769	56	2%	2,458,955	3%	6,840	1%
2012	2,775	6	0%	2,432,690	-1%	6,768	-1%
2013	2,787	13	0%	2,424,249	0%	6,766	0%
2014	2,803	16	1%	2,439,792	1%	6,770	0%
2015	2,825	23	1%	2,432,436	0%	6,772	0%
2016	2,849	23	1%	1,250,197	-49%	3,481	-49%

ORPC projects an increase of 24 connections in its Streetlights for both 2015 and 2016.

The City of Pembroke together with the utility is planning a streetlights retrofit program in the late fall of 2015. Benefits of the LED light fixtures over High Pressure Sodium fixtures include;

- Longevity and decreased energy consumption
- Control of light dispersion spreads light out evenly and reduces light pollution and light trespass
- Reduces CO2 emissions

The utility estimates that the conversion from the conventional street lighting to LED technology will result in power consumption reductions between 40% and 60% per light.

The Load Forecast model uses an average to determine the projections. Again, the methodology behind the projections for 2015 and 2016 are explained in detailed at Ex.3/Tab 1/Sch.1

Table 3.30 below shows the yearly change in consumption for the Sentinel Lighting class.

Table 3.30- Sentinel Variance

Year	Cust	#chg	%chg	kWh	%chg	kW	%chg
2005	250			284,178		783	
2006	225	-25	-10%	267,504	-6%	767	-2%
2007	225	0	0%	266,011	-1%	766	0%
2008	226	1	0%	262,124	-1%	751	-2%
2009	226	0	0%	265,370	1%	756	1%
2010	216	-10	-4%	233,686	-12%	766	1%
2011	209	-7	-3%	270,899	16%	734	-4%
2012	209	-1	0%	243,747	-10%	713	-3%
2013	207	-2	-1%	270,899	11%	700	-2%
2014	204	-3	-1%	245,570	-9%	684	-2%
2015	199	-5	-2%	244,830	0%	698	2%
2016	195	-4	-2%	240,210	-2%	685	-2%

The Sentinel connection count has been steadily dropping over the past 10 years, The utility agrees with the model projections which predict a drop of 4 connections in both 2015 and 2016, Details on the methodology can be found at Ex.3/Tab 1/Sch.1

Table 3.31 below shows the yearly change in consumption for the USL class.

Table 3.31 - USL Variance

Year	Cust	#chg	%chg	kWh	%chg
2005	17			593,390	
2006	20	3	18%	364,006	-39%
2007	20	0	0%	348,199	-4%
2008	20	0	0%	386,944	11%
2009	20	0	0%	437,952	13%
2010	20	0	0%	458,526	5%
2011	20	0	0%	469,307	2%
2012	20	0	0%	448,159	-5%
2013	20	0	0%	453,471	1%
2014	20	0	0%	454,406	0%
2015	20	0	0%	453,036	0%
2016	20	0	0%	444,487	-2%

ORPC does not anticipate any changes in USL connections. The utility overwrote the model projections to keep its connections count at the same levels as the previous 5 years.

In summary, the utility expects a slight increase in the Residential and GS>50 Class. The increase is being offset by the decrease in load associated with the continued loss in GS<50 customers. Secondly, additional energy consumption that does not depend on the weather (often referred to as "baseload" energy consumption) is often offset by the additional transitioning to energy efficient lighting, appliances and other energy efficient changes.

Table 3.33 below presents the actual average use per customer, by customer class, and historical and adjusted forecast average use per customer generated using the load forecast. As can be seen from the results below, the predicted use per customer follows the trend created from its historical usage per customer.
Appendix 2-IA follows table 3.33.

Table 3.33: Average per customer use

	Res	GS<50	USL	GS>50		Streetlights		Sentinel Lights	
Year	per cust kWh	per cust kWh	per cust kWh	per cust kWh	per cust kW	per cust kWh	per cust kW	per cust kWh	per cust kW
2005	8,912	29,288	34,905	555,441	1,589	932	3	1,137	3
2006	9,234	27,315	18,200	554,676	1,522	955	3	1,189	3
2007	8,956	24,772	17,410	577,409	1,566	916	3	1,182	3
2008	8,956	25,409	19,347	550,305	1,419	894	3	1,160	3
2009	8,507	24,532	21,898	545,991	1,457	894	2	1,174	3
2010	8,409	24,314	22,926	516,961	1,370	879	2	1,082	4
2011	8,779	23,561	23,465	516,234	1,404	888	2	1,296	4
2012	8,645	23,466	22,408	513,905	1,434	877	2	1,169	3
2013	8,715	23,796	22,674	505,821	1,488	870	2	1,312	3
2014	8,542	24,013	22,720	494,968	1,409	871	2	1,204	3
2015	8,819	25,355	22,652	495,166	1,362	861	2	1,228	3
2016	8,580	25,229	22,224	479,257	1,319	439	1	1,232	4

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

Replace "Rate Class #" with the appropriate rate classification.

	2010 Board Approved	2010 Actual	2011	2012	2013	2014	2015 Bridge	2016 Test
Residential								
# of Customers	8,895	8,955	9,030	9,087	9,195	9,305	9,384	9,463
kWh	79,547,654	75,301,012	79,270,520	78,553,744	80,138,214	79,483,998	82,752,527	81,190,920
kW								
Variance Analysis								
# of Customers		0.68%	1.52%	2.16%	3.38%	4.62%	5.50%	6.39%
kWh		-5.34%	-0.35%	-1.25%	0.74%	-0.08%	4.03%	2.07%
kW		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service < 50 kW								
# of Customers	1,391	1,372	1,370	1,362	1,333	1,318	1,300	1,281
kWh	36,098,055	33,358,217	32,279,016	31,948,521	31,708,039	31,649,726	32,951,221	32,329,405
kW								
Variance Analysis								
# of Customers		-1.33%	-1.47%	-2.09%	-4.17%	-5.21%	-6.54%	-7.85%
kWh		-7.59%	-10.58%	-11.50%	-12.16%	-12.32%	-8.72%	-10.44%
kW		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Service > 50 kW - 4999 kW								
# of Customers	144	148	145	145	146	147	146	148
kWh	79,345,026	76,510,235	74,853,997	74,516,293	73,596,923	72,512,849	72,294,221	70,929,970
kW	211,781	202,775	203,575	207,916	216,501	206,399	198,904	195,150
Variance Analysis								
# of Customers		2.78%	0.69%	0.69%	1.04%	1.74%	1.39%	2.78%
kWh		-3.57%	-5.66%	-6.09%	-7.24%	-8.61%	-8.89%	-10.61%
kW		-4.25%	-3.87%	-1.82%	2.23%	-2.54%	-6.08%	-7.85%
Sentinel Lighting								
# of Customers	216	216	209	209	207	204	199	195
kWh	265,370	233,686	270,899	243,747	270,899	245,570	244,830	240,210
kW	760	766	734	713	700	684	698	685
Variance Analysis								
# of Customers		0.00%	-3.24%	-3.47%	-4.40%	-5.56%	-7.67%	-9.73%
kWh		-11.94%	2.08%	-8.15%	2.08%	-7.46%	-7.74%	-9.48%
kW		0.79%	-3.42%	-6.18%	-7.89%	-10.07%	-8.20%	-9.93%
Streetlighting								
# of Customers	2,653	2,713	2,769	2,775	2,787	2,803	2,825	2,849
kWh	2,414,487	2,383,707	2,458,955	2,432,690	2,424,249	2,439,792	2,432,436	1,250,197
kW	6,853	6,766	6,840	6,768	6,766	6,770	6,772	3,481
Variance Analysis								
# of Customers		2.26%	4.37%	4.58%	5.05%	5.64%	6.50%	7.37%
kWh		-1.27%	1.84%	0.75%	0.40%	1.05%	0.74%	-48.22%
kW		-1.27%	-0.19%	-1.23%	-1.27%	-1.21%	-1.18%	-49.21%
Unmetered Scattered Load								
# of Customers	73	20	20	20	20	20	20	20
kWh	437,952	458,526	469,307	448,159	453,471	454,406	453,036	444,487
kW								
Variance Analysis								
# of Customers				-72.60%	-72.60%	-72.60%	-72.60%	-72.60%
kWh				2.33%	3.54%	3.76%	3.44%	1.49%
kW				0.00%	0.00%	0.00%	0.00%	0.00%

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

Rate Class 7								
# of Customers								
kWh								
kW								
Variance Analysis								
# of Customers				0.00%	0.00%	0.00%	0.00%	0.00%
kWh				0.00%	0.00%	0.00%	0.00%	0.00%
kW				0.00%	0.00%	0.00%	0.00%	0.00%

Rate Class 8								
# of Customers								
kWh								
kW								
Variance Analysis								
# of Customers				0.00%	0.00%	0.00%	0.00%	0.00%
kWh				0.00%	0.00%	0.00%	0.00%	0.00%
kW				0.00%	0.00%	0.00%	0.00%	0.00%

Rate Class 9								
# of Customers								
kWh								
kW								
Variance Analysis								
# of Customers				0.00%	0.00%	0.00%	0.00%	0.00%
kWh				0.00%	0.00%	0.00%	0.00%	0.00%
kW				0.00%	0.00%	0.00%	0.00%	0.00%

Rate Class 10								
# of Customers								
kWh								
kW								
Variance Analysis								
# of Customers				0.00%	0.00%	0.00%	0.00%	0.00%
kWh				0.00%	0.00%	0.00%	0.00%	0.00%
kW				0.00%	0.00%	0.00%	0.00%	0.00%

Totals

Customers / Connections	13,371			13,596	13,687	13,796	13,874	13,956
kWh	198,108,544			188,143,155	188,591,795	186,786,342	191,128,272	186,385,189
kW from applicable classes	219,394			215,397	223,967	213,852	206,374	199,316

Totals - Variance

Customers / Connections				1.68%	2.36%	3.18%	3.76%	4.38%
kWh				-5.03%	-4.80%	-5.72%	-3.52%	-5.92%
kW from applicable classes				-1.82%	2.08%	-2.53%	-5.93%	-9.15%

Other Revenues

Ex.3/Tab 5/Sch.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 ORPC's proposed revenue requirement. Further details on the derivation of the Revenue Requirement is presented at Exhibit 6.

Other Distribution Revenues includes items such as:

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

A detailed breakdown by USoA account is shown in Table 3.35 - OEB Appendix 2-H presented at the next page. Year over year variance analysis follow at Ex.3/Tab 4/Sch.2

Table 3.35 - OEB Appendix 2-H

Reporting Basis	CGAAP	CGAAP	CGAAP	CGAAP	CGAAP	CGAAP	CGAAP
	2010	2011	2012	2013	2014	2015	2016
USoA Description	Board Approved						
4235-Miscellaneous Service Revenues	-$47,325	-$66,879	-$59,549	-$60,514	-$63,916	-$65,000	-$67,000
4225-Late Payment Charges	-$45,000	-$42,874	-$35,688	-$44,430	-$58,339	-$55,000	-$55,000
4082-Retail Services Revenues	-$15,105	-$11,930	-$10,141	-$9,216	-$8,606	-$7,000	-$6,000
4084-Service Transaction Requests (STR) Revenues	-$23	-$92	-$24	-$35	-$12	-$10	-$10
4086-SSS Administration Revenue	$0	-$29,417	-$29,918	-$30,391	-$30,987	-$32,000	-$33,000
4210-Rent from Electric Property	-$42,000	-$55,911	-$55,811	-$55,868	-$56,354	-$57,000	-$58,000
4305-Regulatory Debits	$0	$0	$0	$51,605	$40,483	$46,000	$0
4324-Special Purpose Charge Recovery	$0	$0	-$2,615	$0	$0	$0	$0
4325-Revenues from Merchandise Jobbing, Etc.	-$70,000	-$45,073	-$65,743	-$109,898	-$50,101	-$40,000	-$30,000
4355-Gain on Disposition of Utility and Other Property	-$12,000	-$2,500	-$9,500	-$1,050	-$300	$0	$0
4360-Loss on Disposition of Utility and Other Property	$0	$0	$0	$0	$7,589	$0	$0
4390-Miscellaneous Non-Operating Income	-$15,000	-$27,947	-$26,865	-$22,529	-$10,183	-$12,000	-$15,000
4405-Interest and Dividend Income	-$90,396	-$151,258	-$158,925	-$134,875	-$75,334	-$20,000	-$20,000
Total	-$336,849	-$433,880	-$454,779	-$417,201	-$306,060	-$242,010	-$284,010

Specific Service Charges	-$47,325	-$66,879	-$59,549	-$60,514	-$63,916	-$65,000	-$67,000
Late Payment Charges	-$45,000	-$42,874	-$35,688	-$44,430	-$58,339	-$55,000	-$55,000
Other Distribution/Operating Revenues	-$57,128	-$97,349	-$95,894	-$95,510	-$95,958	-$96,010	-$97,010
Other Income or Deductions	-$187,396	-$226,778	-$263,648	-$216,747	-$87,846	-$26,000	-$65,000
Total	-$336,849	-$433,880	-$454,779	-$417,201	-$306,060	-$242,010	-$284,010

Ex.3/Tab 5/Sch.2 - Other Revenue Variance Analysis

Table 3.36 to 3.40 below presents year over year variances of other operating revenues:

Table 3.36: Variance Analysis of Other Operating Revenues

Reporting Basis	CGAAP	CGAAP	Var Analysis	Var Analysis
	2010	2010	$	%
USoA Description	Board Approved			
4235-Miscellaneous Service Revenues	-$47,325	-$66,958	$19,633	41.48%
4225-Late Payment Charges	-$45,000	-$47,760	$2,760	6.13%
4082-Retail Services Revenues	-$15,105	-$14,210	-$895	5.93%
4084-Service Transaction Requests (STR) Revenues	-$23	-$28	$5	23.33%
4086-SSS Administration Revenue	$0	-$27,988	$27,988	
4210-Rent from Electric Property	-$42,000	-$59,880	$17,880	42.57%
4325-Revenues from Merchandise Jobbing, Etc.	-$70,000	-$44,134	25,866	36.95%
4355-Gain on Disposition of Utility and Other Property	-$12,000	-$12,000	$0	0.00%
4390-Miscellaneous Non-Operating Income	-$15,000	-$19,746	$4,746	31.64%
4405-Interest and Dividend Income	-$90,396	-$97,032	$6,636	7.34%
Total	-$336,849	-$389,736	$52,887	$0

Specific Service Charges	-$47,325	-$66,958	$19,633	41.48%
Late Payment Charges	-$45,000	-$47,760	$2,760	6.13%
Other Distribution/Operating Revenues	-$57,128	-$102,105	$44,977	78.73%
Other Income or Deductions	-$187,396	-$172,913	-$14,483	7.73%
Total	-$336,849	-$389,736	$52,887	15.70%

Between the 2010 Board Approved and the 2010 Actual results, account 4325 shows an increase of 37%. The increase in rent from electric property was due to the additional pole attachments that occurred in 2010. The balances have remained relatively stable since then. The change in account 4325 is due to the instability of contract work which makes it difficult to project.

The number of collections and late payment charges show no signs of slowing down in the test year and beyond.

Table 3.37: Variance Analysis of Other Operating Revenues

Reporting Basis	CGAAP	CGAAP	Var Analysis	Var Analysis
	2010	2011	$	%
USoA Description				
4235-Miscellaneous Service Revenues	-$66,958	-$66,879	$78	0.12%
4225-Late Payment Charges	-$47,760	-$42,874	-$4,886	10.23%
4082-Retail Services Revenues	-$14,210	-$11,930	-$2,280	16.05%
4084-Service Transaction Requests (STR) Revenues	-$28	-$92	$64	230.63%
4086-SSS Administration Revenue	-$27,988	-$29,417	$1,429	5.11%
4205-Interdepartmental Rents	$0	$0	$0	
4210-Rent from Electric Property	-$59,880	-$55,911	-$3,969	6.63%
4325-Revenues from Merchandise Jobbing, Etc.	-$44,134	-$45,073	$938	2.13%
4355-Gain on Disposition of Utility and Other Property	-$12,000	-$2,500	-$9,500	79.17%
4390-Miscellaneous Non-Operating Income	-$19,746	-$27,947	$8,200	41.53%
4405-Interest and Dividend Income	-$97,032	-$151,258	--$54,226	55.88%
Total	-$389,736	-$433,880	--$44,144	11%

Specific Service Charges	-$66,958	-$66,879	-$78	0.12%
Late Payment Charges	-$47,760	-$42,874	-$4,886	10.23%
Other Distribution/Operating Revenues	-$102,105	-$97,349	-$4,756	4.66%
Other Income or Deductions	-$172,913	-$226,778	$53,865	31.15%
Total	-$389,736	-$433,880	$44,144	11.33%

Variances between 2010 and 2011 showed very little change except for account 4405 which shows an increase of 56%. This is due to interest earned on short term investments. In addition Carrying Charges on Deferral Accounts were recorded in this account.

Table 3.38: Variance Analysis of Other Operating Revenues

Reporting Basis	CGAAP	CGAAP	Var Analysis	Var Analysis
	2011	2012	$	%
USoA Description				
4235-Miscellaneous Service Revenues	-$66,879	-$59,549	-$7,330	10.96%
4225-Late Payment Charges	-$42,874	-$35,688	-$7,187	16.76%
4082-Retail Services Revenues	-$11,930	-$10,141	-$1,789	15.00%
4084-Service Transaction Requests (STR) Revenues	-$92	-$24	-$68	73.84%
4086-SSS Administration Revenue	-$29,417	-$29,918	$502	1.71%
4210-Rent from Electric Property	-$55,911	-$55,811	-$100	0.18%
4324-Special Purpose Charge Recovery	$0	-$2,615	$2,615	
4325-Revenues from Merchandise Jobbing, Etc.	-$45,073	-$65,743	$20,670	45.86%
4355-Gain on Disposition of Utility and Other Property	-$2,500	-$9,500	$7,000	280.00%
4390-Miscellaneous Non-Operating Income	-$27,947	-$26,865	-$1,081	3.87%
4405-Interest and Dividend Income	-$151,258	-$158,925	$7,666	5.07%
Total	-$433,880	-$454,779	$20,899	5%

Specific Service Charges	-$66,879	-$59,549	-$7,330	10.96%
Late Payment Charges	-$42,874	-$35,688	-$7,187	16.76%
Other Distribution/Operating Revenues	-$97,349	-$95,894	-$1,455	1.49%
Other Income or Deductions	-$226,778	-$263,648	$36,871	16.26%
Total	-$433,880	-$454,779	$20,899	4.82%

Similarly to 2011, the change in account 4325 is due to the unpredictability of contract work.

Table 3.39: Variance Analysis of Other Operating Revenues

Reporting Basis	CGAAP	CGAAP	Var Analysis	Var Analysis
	2012	2013	$	%
USoA Description				
4235-Miscellaneous Service Revenues	-$59,549	-$60,514	$965	1.62%
4225-Late Payment Charges	-$35,688	-$44,430	$8,743	24.50%
4082-Retail Services Revenues	-$10,141	-$9,216	-$925	9.12%
4084-Service Transaction Requests (STR) Revenues	-$24	-$35	$11	43.75%
4086-SSS Administration Revenue	-$29,918	-$30,391	$473	1.58%
4210-Rent from Electric Property	-$55,811	-$55,868	$57	0.10%
4305-Regulatory Debits	$0	$51,605	-$51,605	
4324-Special Purpose Charge Recovery	-$2,615	$0	-$2,615	100.00%
4325-Revenues from Merchandise Jobbing, Etc.	-$65,743	-$109,898	$44,155	67.16%
4355-Gain on Disposition of Utility and Other Property	-$9,500	-$1,050	-$8,450	88.95%
4390-Miscellaneous Non-Operating Income	-$26,865	-$22,529	-$4,336	16.14%
4405-Interest and Dividend Income	-$158,925	-$134,875	-$24,050	15.13%
Total	-$454,779	-$417,201	-$37,578	8%

Specific Service Charges	-$59,549	-$60,514	$965	1.62%
Late Payment Charges	-$35,688	-$44,430	$8,743	24.50%
Other Distribution/Operating Revenues	-$95,894	-$95,510	-$384	0.40%
Other Income or Deductions	-$263,648	-$216,747	-$46,901	17.79%
Total	-$454,779	-$417,201	-$37,578	8.26%

Variances between 2012 and 2013 showed very change except for account 4405 which shows a change of 15%. This is due to decreased interest on short term investments and carrying charges on deferral accounts. Ottawa River Power disposed of their 2010 deferral balances of approximately $4 million over 28 months. As in previous years, the change in account 4325 is due to the volatility of contract work.

Table 3.40: Variance Analysis of Other Operating Revenues

Reporting Basis	CGAAP	CGAAP	Var Analysis	Var Analysis
	2013	2014	$	%
USoA Description				
4235-Miscellaneous Service Revenues	-$60,514	-$63,916	$3,403	5.62%
4225-Late Payment Charges	-$44,430	-$58,339	$13,909	31.30%
4082-Retail Services Revenues	-$9,216	-$8,606	-$610	6.62%
4084-Service Transaction Requests (STR) Revenues	-$35	-$12	-$23	66.67%
4086-SSS Administration Revenue	-$30,391	-$30,987	$596	1.96%
4210-Rent from Electric Property	-$55,868	-$56,354	$486	0.87%
4305-Regulatory Debits	$51,605	$40,483	$11,122	21.55%
4325-Revenues from Merchandise Jobbing, Etc.	-$109,898	-$50,101	-$59,797	54.41%
4355-Gain on Disposition of Utility and Other Property	-$1,050	-$300	-$750	71.43%
4360-Loss on Disposition of Utility and Other Property		$7,589	$7589	
4390-Miscellaneous Non-Operating Income	-$22,529	-$10,183	-$12,346	54.80%
4405-Interest and Dividend Income	-$134,875	-$75,334	-$59,541	44.15%
Total	-$417,201	-$306,060	-$111,141	27%

Specific Service Charges	-$60,514	-$63,916	$3,403	5.62%
Late Payment Charges	-$44,430	-$58,339	$13,909	31.30%
Other Distribution/Operating Revenues	-$95,510	-$95,958	$449	0.47%
Other Income or Deductions	-$216,747	-$87,846	-$128,901	59.47%
Total	-$454,779	-$306,060	-$148,719	32.70%

During 2014 Ottawa River Power again saw a large decrease in contract work of close to $60. Additionally account #4405 experienced a sharp decrease again due to the disposition of its deferral accounts. Regulatory debits increased due to the persistence in the change in accounting policies regarding amortization.

Table 3.41: Variance Analysis of Other Operating Revenues

Reporting Basis	CGAAP	MIFRS	Var Analysis	Var Analysis
	2014	2015	$	%
USoA Description				
4235-Miscellaneous Service Revenues	-$63,916	-$65,000	$1,084	1.70%
4225-Late Payment Charges	-$58,339	-$55,000	-$3,339	5.72%
4082-Retail Services Revenues	-$8,606	-$7,000	-$1,606	18.66%
4084-Service Transaction Requests (STR) Revenues	-$12	-$10	-$2	13.04%
4086-SSS Administration Revenue	-$30,987	-$32,000	$1,013	3.27%
4210-Rent from Electric Property	-$56,354	-$57,000	$646	1.15%
4305-Regulatory Debits	$40,483	$46,000	-$5,517	13.63%
4325-Revenues from Merchandise Jobbing, Etc.	-$50,101	-$40,000	$10,101	19.76%
4355-Gain on Disposition of Utility and Other Property	-$300	$0	-$300	100.00%
4360-Loss on Disposition of Utility and Other Property	$7,589		-$7,589	
4390-Miscellaneous Non-Operating Income	-$10,183	-$12,000	$1,817	17.84%
4405-Interest and Dividend Income	-$75,334	-$20,000	-$55,334	20.35%
Total	-$306,060	-$242,010	-$64,050	1%

Specific Service Charges	-$63,916	-$65,000	$1,084	1.70%
Late Payment Charges	-$58,339	-$55,000	-$3,339	5.72%
Other Distribution/Operating Revenues	-$95,958	-$96,010	$52	0.05%
Other Income or Deductions	-$87,846	-$86,000	-$61,846	2.10%
Total	-$306,060	-$242,010	-$64,050	27.61%

In 2015 Ottawa River Power no longer has any short term investment which extrapolates to the $55,334 change in Account #4405. As in the past, ORPC expects the decline in contract work to continue. This will cause the change of $29,989 in Account #4325.

Table 3.42: Variance Analysis of Other Operating Revenues

Reporting Basis	MIFRS	MIFRS	Var Analysis	Var Analysis
	2015	2016	$	%
USoA Description				
4235-Miscellaneous Service Revenues	-$65,000	-$67,000	-$2,000	3.08%
4225-Late Payment Charges	-$55,000	-$55,000	$0	0.00%
4082-Retail Services Revenues	-$7,000	-$6,000	$1,000	14.29%
4084-Service Transaction Requests (STR) Revenues	-$10	-$10	$0	0.00%
4086-SSS Administration Revenue	-$32,000	-$33,000	-$1,000	3.13%
4210-Rent from Electric Property	-$57,000	-$58,000	-$1,000	1.75%
4305-Regulatory Debits	$46,000	$0	-$46,000	100.00%
4325-Revenues from Merchandise Jobbing, Etc.	-$40,000	-$30,000	-$2,000	3.33%
4390-Miscellaneous Non-Operating Income	-$12,000	-$15,000	-$3,000	25.00%
4405-Interest and Dividend Income	-$20,000	-$20,000	$0	0.00%
Total	-$242,010	-$284,010	-$54,000	18%

Specific Service Charges	-$65,000	-$67,000	-$2,000	3.08%
Late Payment Charges	-$55,000	-$55,000	$0	0.00%
Other Distribution/Operating Revenues	-$96,010	-$97,010	-$1,000	1.04%
Other Income or Deductions	-$86,000	-$137,000	-$51,000	59.30%
Total	-$242,010	-$284,010	-$54,000	17.88%

In 2016 Ottawa River Power predicts the only material change to be in Account #4305 regulatory debits when it disposes of the balance during the 2016 Cost of Service application.

Ex.3/Tab 5/Sch.3 - Other Revenue Variance Analysis

A Specific Service Charge is an approved fixed rate charged to a customer for a specific activity or service, or as a penalty. Activities include services that are only available from, or under the control of, the distributor. There are also special or extra services that a distributor chooses to provide. Such services may be those that are of benefit to the distributor or to other customers, and that are provided at a customer's request or as the result of a customer's action or inaction. Specific Service Charges are established for activities that are over and above the distributor's standard level of service. The costs of providing the standard level of service are recovered in the regular distribution rates. The proposed list of specific service charges is presented at the next page.

Table 3.43 – Current and Proposed Specific Service Charge

Service	USoA	Rate	Rate
Standard Supply Service -- Administrative Charge	4080	$0.25	$0.25
Retailer Service Agreement -- standard charge	4082	$100.00	$100.00
Retailer Service Agreement -- monthly fixed charge (per retailer)	4082	$20.00	$20.00
Retailer Service Agreement -- monthly variable charge (per customer)	4082	$0.50	$0.50
Retailer-Consolidated Billing -- monthly credit (per customer)	4082	-$0.30	-$0.30
Service Transaction Request - request fee,per request, applied to the requesting party	4084	$0.25	$0.25
Service Transaction Request - processing fee,per request, applied to the requesting party	4084	$0.50	$0.50
Legal letter charge	4084	$15.00	$15.00
Specific Charge for Access to the Power Poles – per pole/year	4210	$22.35	$22.35
Late Payment - per month	4225	1.5%	1.5%
Collection of account charge – no disconnection	5330	$30.00	$30.00
Account history	4235	$15.00	$15.00
Returned Cheque charge (plus bank charges)	5330	$15.00	$20.00
Account set up charge / change of occupancy charge	4235	$30.00	$30.00
Special Meter reads	4235	$30.00	$30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	4235	00.00	$45.00
Misc Revenue - microFIT service charge	4235	$5.40	$5.40
Other	4235	$0.00	$0.00
Total			

Ex.3/Tab 5/Sch.4 Proposed changes to Specific Service Revenues

ORPC proposes to update the rates of one of its specific service revenues: (1) Returned Cheque charge (plus bank charges) from its current rate of $15.00 to $20.00. ORPC's management has evaluated the costs currently charged for this service and determined that the current rate was not sufficient to fully recover the actual costs. Details are presented in the tables below.

Table 3.44 - Change of returned cheque charge

CURRENT FEE:	15.00
ADJUSTED FEE REQUESTED:	20.00
ACTUAL COSTS include	
Check bank account online or pickup NSF from bank	
Process returned cheque in customer information system	
Contact customer for payment	
Take payment	
Deposit funds back into bank	
Total average time is 30 minutes	
TOTAL COSTS:	19.31

ORPC would like to add an additional charge to its approved Specific Service Charges approved by the Ontario Energy Board. Since the inception of smart meters with all their media hype, ORPC has seen a marked increase in the number of customers complaining about faulty meters. In many instances either the Customer Service Representative or the Meter Technician is able to explain how smart meters work and how meter reading happens. More and more however, there is a demand to change the meter. ORPC believes that the costs associated with this should be borne by the specific customer versus all customers of the utility.

Table 3.45 - Meter Dispute Charge plus Measurement Canada Charges

CURRENT FEE:	0.00
ADJUSTED FEE REQUESTED:	45.00
ACTUAL COSTS	
Meter technician to explain “smart meters” operations	13.35
Meter technician trip out to check/and or change meter	17.81
Send meter to Measurement Canada	13.35
TOTAL COSTS:	44.51

Ex.3/Tab 5/Sch.5 Revenues for Affiliate transactions

Ottawa River Power has an affiliation with Ottawa River Energy Solution Inc. (ORES). The business lines of ORES are comprised of the historical retail lines of the former amalgamated utilities. These include water heater rentals, sentinel light rentals, contract work and telecommunications. ORES provide internet services to ORPC on market-based pricing. ORES has no employees.

ORPC provides management and other services to ORES on a cost basis. A project and job costing system is used to track time, material and equipment for the services provided. ORPC had provided a loan to ORES for telecommunication development purposes. ORES paid interest on this loan monthly which was retired in 2011.

Revenues from ORES are included in account #4235. These are broken down in the tables below:

2010	Price	Cost	Revenue
Water Heater Maintenance	44,275	38,500	5,775
Sentinel Light Maintenance	3,662	3,183	479
Telecommunications	10,769	9,364	1,405
Miscellaneous	496	432	64
Management Services	39,684	34,508	5,176
Total Services Revenue			12,899

2011	Price	Cost	Revenue
Water Heater Maintenance	44,579	38,764	5,815
Sentinel Light Maintenance	3,417	2,971	446
Telecommunications	25,344	22,038	3,306
Miscellaneous	384	333	51
Management Services	41,238	35,859	5,379
Total Services Revenue			14,997

2012	Price	Cost	Revenue
Water Heater Maintenance	67,067	58,319	8,748
Sentinel Light Maintenance	5,811	5,053	758
Telecommunications	82,668	71,885	10,783
Miscellaneous	729	633	96
Management Services	47,782	41,550	6,232
Total Services Revenue			26,617

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2013	Price	Cost	Revenue
Water Heater Maintenance	54,377	47,285	7,092
Sentinel Light Maintenance	3,438	2,990	448
Telecommunications	77,403	67,307	10,096
Miscellaneous	757	658	99
Management Services	54,589	47,470	7,119
Total Services Revenue			24,854

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2014	Price	Cost	Revenue
Water Heater Maintenance	60,027	52,197	7,830
Sentinel Light Maintenance	8,133	7,072	1,061
Telecommunications	29,834	25,943	3,891
Miscellaneous	391	340	51
Management Services	47,644	41,430	6,214
Total Services Revenue			19,047

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2015	Price	Cost	Revenue
Water Heater Maintenance	62,000	53,913	8,087
Sentinel Light Maintenance	5,000	4,348	652
Telecommunications	40,000	34,750	5,250
Miscellaneous	470	400	70
Management Services	60,000	52,175	7,825
Total Services Revenue			21,884

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2016	Price	Cost	Revenue
Water Heater Maintenance	64,000	55,652	8,348
Sentinel Light Maintenance	5,000	4,348	652

Telecommunications	40,000	34,750	5,250
Miscellaneous	500	435	65
Management Services	62,000	53,914	8,086
Total Services Revenue			22,401

Table 3.47 – Current and Proposed Specific Service Charge

Service	USoA		Rate	Rate
Standard Supply Service -- Administrative Charge	4080		$0.25	$0.25
Retailer Service Agreement -- standard charge	4082		$100.00	$100.00
Retailer Service Agreement -- monthly fixed charge (per retailer)	4082		$20.00	$20.00
Retailer Service Agreement -- monthly variable charge (per customer)	4082		$0.50	$0.50
Retailer-Consolidated Billing -- monthly credit (per customer)	4082		-$0.30	-$0.30
Service Transaction Request - request fee,per request, applied to the requesting party	4084		$0.25	$0.25
Service Transaction Request - processing fee,per request, applied to the requesting party	4084		$0.50	$0.50
Legal letter charge	4084		$15.00	$15.00
Specific Charge for Access to the Power Poles – per pole/year	4210		$22.35	$22.35
Late Payment - per month	4225		1.5%	1.5%
Collection of account charge – no disconnection	5330		$30.00	$30.00
Account history	4235		$15.00	$15.00
Returned Cheque charge (plus bank charges)	5330		$15.00	$20.00
Account set up charge / change of occupancy charge	4235		$30.00	$30.00
Special Meter reads	4235		$30.00	$30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	4235		00.00	$45.00
Misc Revenue - microFIT service charge	4235		$5.40	$5.40
Other	4235		$0.00	$0.00
Total				

Ex.3/Tab 5/Sch.6 Pass-Through Revenues

Pass-through charges for power supply include commodity, retail transmission services, wholesale market service, rural rate protection, Smart Meter Entity Charge charges and low voltage service. Debt retirement charges are not included. A total loss factor applies to forecast retail volumes for all pass-through charges other than low voltage service, when the billing determinant is kWh.

Commodity Price

The assumed commodity prices are based on the Regulated Price Plan ("RPP") Report issued by the OEB on April 16, 2014. The estimated price for RPP customers corresponds to the average supply cost for RPP customers specified in the report's Table ES-1 as indicated in the excerpt below.

Table ES-1: Average RPP Supply Cost Summary (for the 12 months from May 1, 2014)

RPP Supply Cost Summary
for the period from May 1, 2014 through April 30, 2015

		Current
Forecast Wholesale Electricity Price		$26.28
Load-Weighted Price for RPP Consumers ($ / MWh)		$28.70
Impact of the Global Adjustment ($ / MWh)	+	$64.68
Adjustment to Address Bias Towards Unfavourable Variance ($ / MWh)	+	$1.00
Adjustment to Clear Existing Variance ($ / MWh)	+	($1.87)
Average Supply Cost for RPP Consumers ($ / MWh)	=	**$92.50**

ORPC used RPP and non-RPP split to calculate the weighted average commodity price. The table below shows ORPC's determinate of its commodity.

Table 3.46 – Determination of Commodity

Determination of Commodity				
	Last Actual kWh's			
Customer Class Name	**Last Actual kWh's**		**non-RPP**	**RPP**
Residential	79,483,998		3,415,188	76,068,810
General Service < 50 kW	31,649,726		2,656,020	28,993,706
General Service > 50 to 4999 kW	72,512,849		62,009,680	10,503,169
Sentinel Lighting	245,570		5,184	240,386
Streetlighting	2,439,792		2,377,067	62,725
Unmetered Scattered Load	454,406		25,008	429,398
other	-		-	0
other	-		-	0
other	-		-	0
TOTAL	**186,786,342**		**70,488,147**	**116,298,195**
%	*100.00%*		*37.74%*	*62.26%*
Forecast Price				
HOEP ($/MWh)			$21.68	
Global Adjustment ($/MWh)			$81.94	
Adjustments				
TOTAL ($/MWh)			**$103.62**	**$102.10**
$/kWh			***$0.10362***	***$0.10210***
%			37.74%	62.26%
WEIGHTED AVERAGE PRICE	**$0.1027**		**$0.0391**	**$0.0636**

ORPC reserves the right to update its commodity price based on updated prices are they become available.

Retail Transmission Service ("RTSR") Rates

Proposed RTSRs for Network Service and Line and Transformation Connection Service are described in Exhibit 8.Tab 2.Schedule 1. The OEB issued RTSR model is being filed in conjunction with this application.

Wholesale Market Service ("WMS") Rate

ORPC proposes to maintain its current WMS rate of $0.0044 per kWh, as prescribed by the OEB.

Rural Rate Protection

The existing Rural Rate Protection charge of $0.0013 per kWh has been maintained.

Low Voltage ("LV") Service

ORPC estimates total charges of $-205,000 in 2016 for LV service. Proposed retail rates for LV are described in Exhibit 8.Tab 5.Schedule 1

Ex.3/Tab 5/Sch.7 Power Supply Expenses

The next page presents the utility's power supply expense for both the Bridge Year and Test Year.

Power Supply Expense

Determination of Commodity

Customer Class Name		Last Actual kWh's	non-RPP	RPP
		Last Actual kWh's	non-RPP	RPP
Residential		79,483,998	3,415,188	76,068,810
General Service < 50 kW		31,649,726	2,656,020	28,993,706
General Service > 50 to 4999 kW		72,512,849	62,009,680	10,503,169
Sentinel Lighting		245,570	5,184	240,386
Streetlighting		2,439,792	2,377,067	62,725
Unmetered Scattered Load		454,406	25,008	429,398
other		-	-	0
other		-	-	0
other		-	-	0
TOTAL		**186,786,342**	**70,488,147**	**116,298,195**
%		*100.00%*	*37.74%*	*62.26%*

Forecast Price

HOEP ($/MWh)				$21.68		Note: Table ES-1 from current RPP report - Load Weighted price for RPP Consumers
Global Adjustment ($/MWh)				$81.94		Note: Table ES-1 from current RPP report - Impact of Global Adjustment
Adjustments						
TOTAL ($/MWh)				**$103.62**	**$102.10**	Note: Table ES-1 from current RPP report - AVG supply cost for RPP Consumers
$/kWh				***$0.10362***	***$0.10210***	
%				37.74%	62.26%	
WEIGHTED AVERAGE PRICE		**$0.1027**		**$0.0391**	**$0.0636**	

Electricity Projections

(volumes for the bridge and test year are automatically loss adjusted)

Customer		Revenue	Expense	2010	2011	2012	2013	2014	2015			2016		
Class Name		USA #	USA #						Volume	rate ($/kWh):	Amount	Volume	rate ($/kWh):	Amount
Residential	kWh	4006	4705						85,979,876	0.0796	$6,843,998	84,357,365	$0.10267	$8,661,275
General Service < 50 kW	kWh	4010	4705						34,236,319	0.0796	$2,725,211	33,590,252	$0.10267	$3,448,832
General Service > 50 to 4999 kW	kWh	4035	4705						75,113,696	0.0796	$5,979,050	73,696,239	$0.10267	$7,566,659
Sentinel Lighting	kWh	4010	4705						254,378	0.0796	$20,249	249,578	$0.10267	$25,625
Streetlighting	kWh	4025	4705						2,527,301	0.0796	$201,173	1,298,955	$0.10267	$133,368
Unmetered Scattered Load	kWh	4025	4705						470,705	0.0796	$37,468	461,822	$0.10267	$47,417
other	kWh	4025	4705						0	0.0796	$0	0	$0.10267	$0
other	kWh	4025	4705						0	0.0796	$0	0	$0.10267	$0
other	kWh	4025	4705						0	0.0796	$0	0	$0.10267	$0
TOTAL				**0**	**0**	**0**	**0**	**0**	**$198,582,275**		**$15,807,149**	**$193,654,212**		**$19,883,176**

Transmission - Network

(volumes for the bridge and test year are automatically loss adjusted)

Customer		Revenue	Expense	2010	2011	2012	2013	2014	2015			2016		
Class Name		USA #	USA #						Volume	Rate	Amount	Volume	Rate	Amount
Residential	kWh	4066	4714		394,623.29	407,316.86	471,197.75	510,251.38	85,979,876	0.0063	$541,673	84,357,365	0.0060	$508,855
General Service < 50 kW	kWh	4066	4714		147,335.56	152,509.18	171,444.58	186,107.98	34,236,319	0.0058	$198,571	33,590,252	0.0056	$186,540
General Service > 50 to 4999 kW	kW	4066	4714		354,012.03	378,494.45	443,006.02	466,772.61	198,904	2.3683	$471,064	195,150	2.2676	$442,524
Sentinel Lighting	kWh	4066	4714		994.40	1,014.46	1,124.37	1,206.25	254,378	1.7951	$456,635	249,578	1.7188	$428,968
Streetlighting	kW	4066	4714		9,248.47	9,580.76	10,909.59	11,915.74	6,772	1.7860	$12,095	3,481	1.7101	$5,952
Unmetered Scattered Load	kWh	4066	4714		2,145.32	2,140.17	2,461.47	2,688.86	470,705	0.0058	$2,730	461,822	0.0056	$2,565
other	0	4066	4714						1	0.0000	$0	1	0.0000	$0
other	0	4066	4714						1	0.0000	$0	1	0.0000	$0
other	0	4066	4714						1	0.0000	$0	1	0.0000	$0
TOTAL	0			**0**	**908,359**	**951,056**	**1,100,144**	**1,178,943**	**121,146,957**		**1,682,768**	**118,857,651**		**1,575,404**

Transmission - Connection

(volumes for the bridge and test year are automatically loss adjusted)

Customer		Revenue	Expense	2010	2011	2012	2013	2014	2015			2016		
Class Name		USA #	USA #						Volume	Rate	Amount	Volume	Rate	Amount
Residential	kWh	4068	4716		202,551.59	270,071.85	340,282.19	361,629.55	85,979,876	0.0045	$386,909	84,357,365	0.0046	$388,002
General Service < 50 kW	kWh	4068	4716		73,003.51	99,466.33	119,468.53	127,174.84	34,236,319	0.0040	$136,945	33,590,252	0.0041	$137,332
General Service > 50 to 4999 kW	kW	4068	4716		173,187.58	253,178.53	313,817.08	320,315.41	198,904	1.5959	$317,431	195,150	1.6312	$318,327
Sentinel Lighting	kWh	4068	4716		493.07	680.70	803.00	842.90	254,378	1.2596	$320,415	249,578	1.2875	$321,321
Streetlighting	kW	4068	4716		4,466.66	6,336.44	7,662.02	8,198.08	6,772	1.2338	$8,355	3,481	1.2611	$4,389
Unmetered Scattered Load	kWh	4068	4716		1,064.69	1,404.35	1,711.06	1,839.51	470,705	0.0040	$1,883	461,822	0.0041	$1,888
other	0	4068	4716						1	0.0000	$0	1	0.0000	$0
other	0	4068	4716						1	0.0000	$0	1	0.0000	$0
other	0	4068	4716						1	0.0000	$0	1	0.0000	$0
TOTAL	0	**0**	**0**	**0**	**$454,767**	**$631,138**	**$783,744**	**$820,000**	**$121,146,957**		**$1,171,939**	**$118,857,651**		**$1,171,259**

Wholesale Market Service

(volumes for the bridge and test year are automatically loss adjusted)

Customer		Revenue	Expense	2010	2011	2012	2013	2014	2015			2016		
										rate ($/kWh):	**0.0052**		**rate ($/kWh):**	**0.0052**
Class Name		USA #	USA #						Volume		Amount	Volume		Amount
Residential	kWh	4062	4708			321,517.42	395,066.72	362,003.39	85,979,876	0.00440	$378,311	84,357,365	0.00440	$371,172
General Service < 50 kW	kWh	4062	4708			133,135.46	155,728.09	144,030.23	34,236,319	0.00440	$150,640	33,590,252	0.00440	$147,797
General Service > 50 to 4999 kW	kW	4062	4708			315,648.98	356,695.21	331,164.63	198,904	0.00440	$875	195,150	0.00440	$859
Sentinel Lighting	kWh	4062	4708			1,039.75	1,167.44	1,080.72	254,378	0.00440	$1,119	249,578	0.00440	$1,098
Streetlighting	kW	4062	4708			10,215.24	11,784.98	10,971.76	6,772	0.00440	$30	3,481	0.00440	$15
Unmetered Scattered Load	kWh	4062	4708			1,897.74	2,214.00	2,084.43	470,705	0.00440	$2,071	461,822	0.00440	$2,032
other	0	4062	4708						1	0.00440	$0	1	0.00440	$0
other	0	4062	4708						1	0.00440	$0	1	0.00440	$0
other	0	4062	4708						1	0.00440	$0	1	0.00440	$0
TOTAL	0	**0**	**0**	**0**	**0**	**$783,455**	**$922,656**	**$851,335**	**$121,146,957**		**$533,047**	**$118,857,651**		**$522,973**

Rural Rate Protection

(volumes for the bridge and test year are automatically loss adjusted)

Customer		Revenue	Expense	2010	2011	2012	2013	2014	2015			2016		
										rate ($/kWh):			**rate ($/kWh):**	
Class Name		USA #	USA #						Volume		Amount	Volume		Amount
Residential	kWh	4062	4730			108,337.17	93,357.87	105,410.23	85,979,876	0.00120	$103,176	84,357,365	0.00120	$101,229
General Service < 50 kW	kWh	4062	4730			42,448.04	37,309.43	41,325.43	34,236,319	0.00120	$41,084	33,590,252	0.00120	$40,308
General Service > 50 to 4999 kW	kW	4062	4730			97,178.30	86,359.04	94,938.70	198,904	0.00120	$239	195,150	0.00120	$234
Sentinel Lighting	kWh	4062	4730			317.04	284.18	312.41	254,378	0.00120	$305	249,578	0.00120	$299
Streetlighting	kW	4062	4730			3,178.84	2,852.09	3,183.68	6,772	0.00120	$8	3,481	0.00120	$4
Unmetered Scattered Load	kWh	4062	4730			584.46	537.83	590.29	470,705	0.00120	$565	461,822	0.00120	$554
other	0	4062	4730						1	0.00120	$0	1	0.00120	$0
other	0	4062	4730						1	0.00120	$0	1	0.00120	$0
other	0	4062	4730						1	0.00120	$0	1	0.00120	$0
TOTAL	0	**0**	**0**	**0**	**0**	**$252,044**	**$220,700**	**$245,761**	**$121,146,957**		**$145,376**	**$118,857,651**		**$142,629**

Smart Meter Entity Charge

(per customer)

Customer		Revenue	Expense	2010	2011	2012	2013	2014	2015			2016		
										rate ($/kWh):			**rate ($/kWh):**	
Class Name		USA #	USA #						Volume		Amount	Volume		Amount
Residential	kWh						57,094.78	88537.26	9,384	0.79000	$7,413	9,463	0.79000	$89,712
General Service < 50 kW	kWh						8,696.02	12498.26	1,300	0.79000	$1,027	1,281	0.79000	$12,148
General Service > 50 to 4999 kW	kW								146	0.79000	$115	148	0.79000	$1,403
TOTAL	0	**0**	**0**	**0**	**0**	**0**	**$65,791**	**$101,036**	**$10,829**		**$8,555**	**$10,893**		**$103,263**

Low Voltage Charges - Historical and Proposed LV Charges

				2010	2011	2012	2013	2014	2015	2016
4075-Billed - LV				-189,060	-205,210	-202,887	-206,776	-202,825	-205,000	-205,000
4750-Charges - LV				0	0	0	65,791	167,195	205,000	205,000

Low Voltage Charges - Allocation of LV Charges based on Transmission Connection Revenue

(volumes are not loss adjusted)

		ALLOCATON BASED ON TRANSMISSION-CONNECTION REVENUE			
Customer Class Name		**RTSR Rate**	**Uplifted Volumes**	**Revenue**	**% Alloc**
Residential	kWh	**$0.0046**	84,357,365	$388,002	33.13%
General Service < 50 kW	kWh	**$0.0041**	33,590,252	$137,332	11.73%
General Service > 50 to 4999 kW	kW	**$1.6312**	195,150	$318,327	27.18%
Sentinel Lighting	kWh	**$1.2875**	249,578	$321,321	27.43%
Streetlighting	kW	**$1.2611**	3,481	$4,389	0.37%
Unmetered Scattered Load	kWh	**$0.0041**	461,822	$1,888	0.16%
other	0	**$0.0000**	1	$0	0.00%
other	0	**$0.0000**	1	$0	0.00%
other	0	**$0.0000**	1	$0	0.00%
TOTAL			**118,857,651**	**$1,171,261**	**100%**

Low Voltage Charges Rate Rider Calculations
(volumes are not loss adjusted)

	PROPOSED LOW VOLTAGE CHARGES & RATES				
Customer Class Name	**% Allocation**	**Charges**	**Not Uplifted Volumes**	**Rate**	**per**
Residential	33.13%	67,910	84,357,365	$0.0008	kWh
General Service < 50 kW	11.73%	24,057	33,590,252	$0.0007	kWh
General Service > 50 to 4999 kW	27.18%	55,715	195,150	$0.2855	kW
Sentinel Lighting	27.43%	56,239	249,578	$0.2253	kWh
Streetlighting	0.37%	768	3,481	$0.2207	kW
Unmetered Scattered Load	0.16%	330	461,822	$0.0007	kWh
other	0.00%	0	1	$0.0000	0
other	0.00%	0	1	$0.0000	0
other	0.00%	0	1	$0.0000	0
TOTAL	**99.84%**	**205,000**	**118,857,651**		

Low Voltage Charges to be added to power supply expense for bridge and test year.
(volumes are not loss adjusted)

Customer		**Revenue**	**Expense**	**2015**			**2016**		
Class Name		USA #	USA #	Volume	Rate	Amount	Volume	Rate	Amount
Residential	kWh	4075	4750	82,752,527	$0.0011	$91,028	84,357,365	$0.0008	$67,485.89
General Service < 50 kW	kWh	4075	4750	32,951,221	$0.0010	$32,951	33,590,252	$0.0007	$23,513.18
General Service > 50 to 4999 kW	kW	4075	4750	198,904	$0.3954	$78,647	195,150	$0.2855	$55,715.45
Sentinel Lighting	kWh	4075	4750	244,830	$0.3121	$76,411	249,578	$0.2253	$56,229.95
Streetlighting	kW	4075	4750	6,772	$0.3057	$2,070	3,481	$0.2207	$768.19
Unmetered Scattered Load	kWh	4075	4750	2,432,436	$0.0010	$2,432	461,822	$0.0007	$323.28
other	0	4075	4750	1	$0.0000	$0	1	$0.0000	$0.00
other	0	4075	4750	1	$0.0000	$0	1	$0.0000	$0.00
other	0	4075	4750	1	$0.0000	$0	1	$0.0000	$0.00
TOTAL		**0**	**0**	**118,586,693**		**$283,540**	**118,857,651**		**$204,035.93**

Projected Power Supply Expense						**$19,632,374**			**$23,602,740**

1

Message from the Vice President:

The OPA is pleased to provide you with the enclosed Final 2011 Results Report.

Despite some of the inertial challenges in 2011 with program start up, on average, year one province-wide forecasts were met and the year finished out with strong momentum which continues to build 2012. There are still challenges for LDCs of all sizes and we are committed to ensuring LDCs are successful in meeting their objectives. We look forward to further dialogue to discover opportunities to improve the current program suite with local program opportunities, best practices and successes to better reach our customers in the years to come.

This report was developed in collaboration with the OPA-LDC Reporting and Evaluation Working Group and is designed to help populate LDC annual report templates that will be submitted to the OEB in late September. Between the draft and final reports several improvements were made to improve clarity and transparency based on feedback provided by LDCs, such as: the addition of a glossary tab, total adjustments to savings are now broken out into both the realization rate and net-to-gross ratio for both peak demand and energy savings and modifications were made to the methodology tab. We invite you to continue to provide your feedback.

All results are now considered final for 2011. Any additional 2011 program activity not captured will be reported in the Final 2012 Results Report. Please continue to monitor saveONenergy E-blasts for any further updates and should you have any other questions or comments please contact LDC.Support@powerauthority.on.ca.

We appreciate your collaboration and cooperation throughout the reporting and evaluation process. We look forward to another successful year in 2012.

Sincerely,
Andrew Pride

Table of Contents

Summary	Provides a "snapshot" of your LDC's OPA-Contracted Province-Wide Program performance in 2011: progress to target using 2 scenarios, sector breakdown and progress against the LDC community.
LDC-Specific Data: table formats, section references and table numbers align with the OEB Reporting Template	
2.3 Results Participation - LDC	Breakdown of initiative-level participation in 2011 for your LDC.
2.5.1 Evaluation Findings	Provides a summary of the province-wide evaluation findings for each initiative and highlights which initiatives were not evaluated.
2.5.2 Results - LDC	Provides LDC-specific initiative-level results (net and gross peak demand and energy savings, realization rates, net-to-gross ratios and how each initiative contributes to target)
3.1.1 Summary - LDC	Provides a portfolio level view of achievement towards your OEB targets in 2011. Contains space to input LDC-specific progress to milestones set out in your CDM Strategy.
Province-Wide Data: LDC performance in aggregate (province-wide results)	
Provincial - Participation	Breakdown of initiative-level participation in 2011 for the province.
Provincial - Results	Provides province-wide initiative-level results (net and gross peak demand and energy savings, realization rates, net-to-gross ratios and how each initiative contributes to target)
Provincial - Progress Summary	Provides a portfolio level view of provincial achievement towards province-wide OEB targets in 2011.
Methodology	Provides key equations, notes and an initiative-level breakdown of: how savings are attributed to LDCs, when the savings are considered to 'start' (i.e. what period the savings are attributed to) and how the savings are calculated.
Reference Tables	Provides the sector mapping used for Retrofit and the allocation methodology table used in the consumer program when customer specific information is unavailable
Glossary	Contains definitions for terms used throughout the report.

OPA-Contracted Province-Wide CDM Programs FINAL 2011 Results

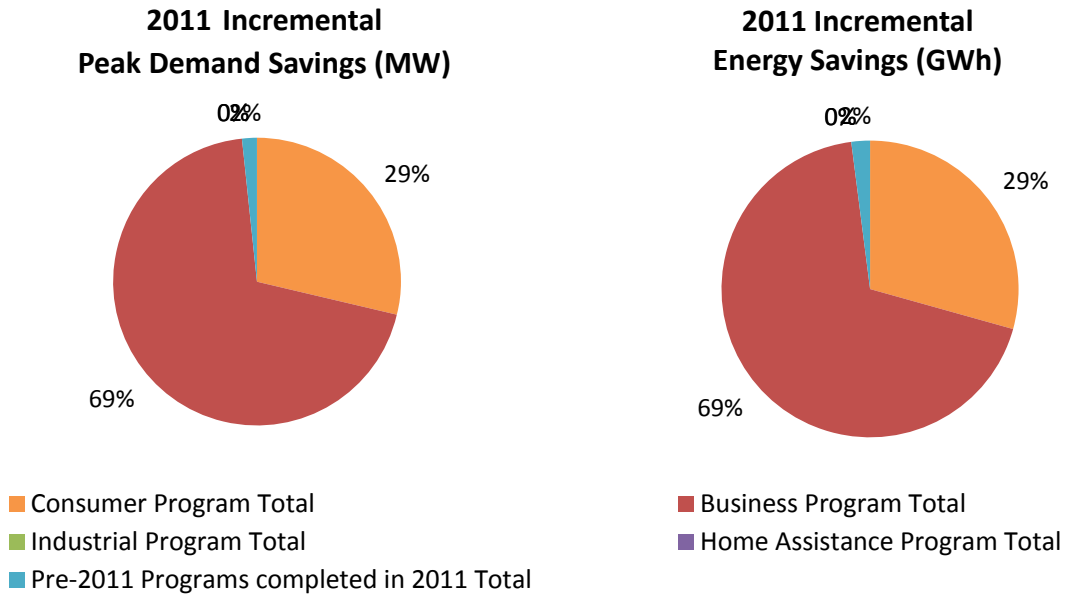
LDC: Ottawa River Power Corporation

FINAL 2011 Progress to Targets	Incremental 2011	Scenario 1: % of Target Achieved	Scenario 2: % of Target Achieved
Net Annual Peak Demand Savings (MW)	0.2	**11.2%**	**13.5%**
Net Cumulative Energy Savings (GWh)	0.8	**34.4%**	**34.4%**

Scenario 1 = Assumes that demand resource resources have a persistence of 1 year

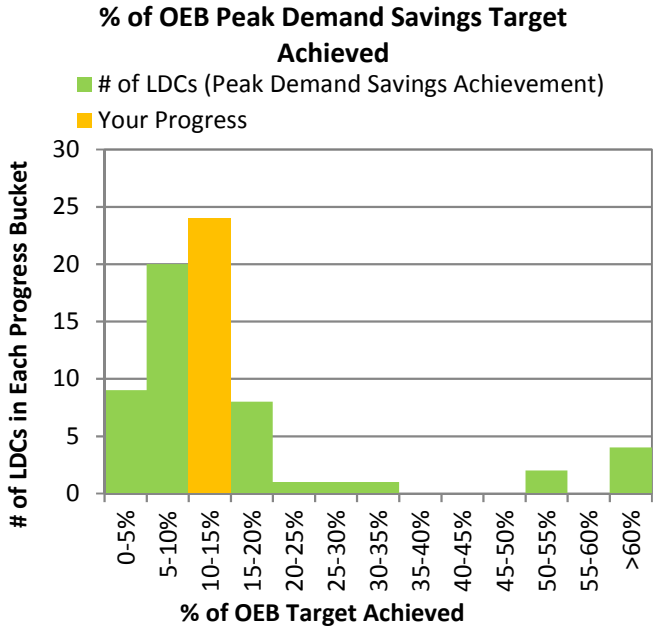
Scenario 2 = Assumes that demand response resources remain in your territory until 2014

Achievement by Sector



Comparison: Your Achievement vs. LDC Community Achievement

The following graphs assume that demand response resources remain in your territory until 2014 (aligns with Scenario 2)



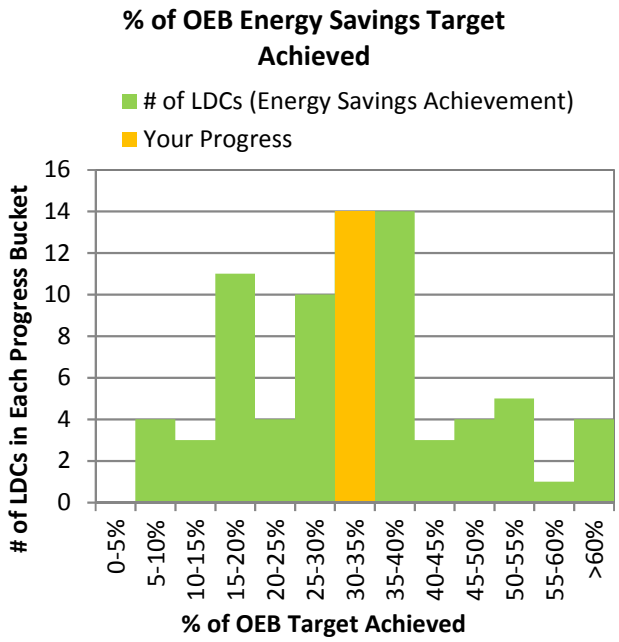


Table 1: Participation[1]

#	Initiative	Unit	Uptake/ Participation Units
Consumer Program			
1	Appliance Retirement	Appliances	92
2	Appliance Exchange	Appliances	16
3	HVAC Incentives	Equipment	153
4	Conservation Instant Coupon Booklet	Products	998
5	Bi-Annual Retailer Event	Products	1,718
6	Retailer Co-op	Products	0
7	Residential Demand Response	Devices	0
8	Residential New Construction	Houses	0
Business Program			
9	Efficiency: Equipment Replacement	Projects	6
10	Direct Install Lighting	Projects	109
11	Existing Building Commissioning Incentive	Buildings	0
12	New Construction and Major Renovation Incentive	Buildings	0
13	Energy Audit	Audits	0
14	Commercial Demand Response (part of the Residential program schedule)	Devices	0
15	Demand Response 3 (part of the Industrial program schedule)	Facilities	0
Industrial Program			
16	Process & System Upgrades	Projects[2]	0
17	Monitoring & Targeting	Projects[3]	0
18	Energy Manager	Managers[2 3]	0
19	Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	Projects	0
20	Demand Response 3	Facilities	0
Home Assistance Program			
21	Home Assistance Program	Homes	0
Pre 2011 Programs Completed in 2011			
22	Electricity Retrofit Incentive Program	Projects	2
23	High Performance New Construction	Projects	0
24	Toronto Comprehensive	Projects	0
25	Multifamily Energy Efficiency Rebates	Projects	0
26	Data Centre Incentive Program	Projects	0
27	EnWin Green Suites	Projects	0

[1] *Please see "Methodology" tab for more information regarding attributing savings to LDCs*

[2] *Results are based on completed incentive projects (see "Methodology" tab for more information)*

[3] *Includes: Roving Energy Managers, Key Account Managers and Embedded Energy Managers if projects are completed in 2011*

Table 3: OPA Province-Wide Evaluation Findings

#	Initiative	OPA Province-Wide Key Evaluation Findings
Consumer Program		

1	Appliance Retirement	* Overall participation continues to decline year over year
		  * Participation declined 17% from 2010 (from over 67,000 units in 2010 to over 56,000 units in 2011)
		* 97% of net resource savings achieved through the home pick-up stream
		  * Measure Breakdown: 66% refrigerators, 30% freezers, 4% Dehumidifiers and window air conditioners
		* 3% of net resource savings achieved through the Retailer pick-up stream
		  * Measure Breakdown: 90% refrigerators, 10% freezers
		* Net-to-Gross ratio for the initiative was 50%
		  * Measure-level free ridership ranges from 82% for the retailer pick-up stream to 49% for the home pick-up stream
		  * Measure-level spillover ranges from 3.7% for the retailer pick-up stream to 1.7% for the home pick-up stream

2	Appliance Exchange	* Overall eligible units exchanged declined by 36% from 2010 (from over 5,700 units in 2010 to
		  * Measure Breakdown: 75% window air conditioners, 25% dehumidifiers
		* Dehumidifiers and window air conditioners contributed almost equally to the net energy
		  * Dehumidifiers provide more than three times the energy savings per unit than window air conditioners
		* Window air conditioners contributed to 64% of the net peak demand savings achieved
		* Approximately 96% of consumers reported having replaced their exchanged units (as opposed to retiring the unit)
		* Net-to-Gross ratio for the initiative is consistent with previous evaluations (51.5%)

3	HVAC Incentives	* Total air conditioner and furnace installations increased by 14% (from over 95,800 units in 2010 to over 111,500 units in 2011)
		  * Measure Breakdown: 64% furnaces, 10% tier 1 air conditioners (SEER 14.5) and 26% tier 2 air conditioners (SEER 15)
		  * Measure breakdown did not change from 2010 to 2011
		* The HVAC Incentives initiative continues to deliver the majority of both the energy (45%) and demand (83%) savings in the consumer program
		  * Furnaces accounted for over 91% of energy savings achieved for this initiative
		* Net-to-Gross ratio for the initiative was 17% higher than 2010 (from 43% in 2010 to 60% in
		  * Increase due in part to the removal of programmable thermostats from the program, and an increase in the net-to-gross ratio for both Furnaces and Tier 2 air conditioners (SEER 15)

4	Conservation Instant Coupon Booklet	* Customers redeemed nearly 210,000 coupons, translating to nearly 560,000 products
		  * Majority of coupons redeemed were downloadable (~40%) or LDC-branded (~35%)
		  * Majority of coupons redeemed were for multi-packs of standard spiral CFLs (37%), followed by multi-packs of specialty CFLs (17%)
		* Per unit savings estimates and net-to-gross ratios for 2011 are based on a weighted average of 2009 and 2010 evaluation findings
		* Careful attention in the 2012 evaluation will be made for standard CFLs since it is believed that the market has largely been transformed

		* Customers redeemed nearly 370,000 coupons, translating to over 870,000 products * Majority of coupons redeemed were for multi-packs of standard spiral CFLs (49%), followed by multi-packs of specialty CFLs (16%)

#	Initiative	OPA Province-Wide Key Evaluation Findings
5	Bi-Annual Retailer Event	* Per unit savings estimates and net-to-gross ratios for 2011 are based on a weighted average of 2009 and 2010 evaluation findings * Standard CFLs and heavy duty outdoor timers were reintroduced to the initiative in 2011 and contributed more than 64% of the initiative's 2011 net annual energy savings * While the volume of coupons redeemed for heavy duty outdoor timers was relatively small (less than 1%), the measure accounted for 10% of net annual savings due to high per unit savings * Careful attention in the 2012 evaluation will be made for standard CFLs since it is believed that the market has largely been transformed.
6	Retailer Co-op	* Initiative was not evaluated in 2011 due to low uptake. Verified Bi-Annual Retailer Event per unit assumptions and free-ridership rates were used to calculate net resource savings
7	Residential Demand Response	* Approximately 20,000 new devices were installed in 2011 * 99% of the new devices enrolled controlled residential central AC (CAC) * 2011 only saw 1 atypical event (in both weather and timing) that had limited participation * The ex ante impact developed through the 2009/2010 evaluations was maintained for 2011; residential CAC: 0.56 kW/device, commercial CAC: 0.64 kW/device, and Electric Water Heaters: 0.30 kW/device
8	Residential New Construction	* Initiative was not evaluated in 2011 due to limited uptake * Business case assumptions were used to calculate savings
Business Program		
9	Efficiency: Equipment Replacement	* Gross verified energy savings were boosted by lighting projects in the prescriptive and * Lighting projects overall were determined to have a realization rate of 112%; 116% when including interactive energy changes * On average, the evaluation found high realization rates as a result of both longer operating hours and larger wattage reductions than initial assumptions * Low realization rates for engineered lighting projects due to overstated operating hour assumptions * Custom non-lighting projects suffered from process issues such as: the absence of required M&V plans, the use of inappropriate assumptions , and the lack of adherence to the M&V plan * The final realization rate for summer peak demand was 94% * 84% was a result of different methodologies used to calculate peak demand savings * 10% due to the benefits from reduced air conditioning load in lighting retrofits * Overall net-to-gross ratios in the low 70's represent an improvement over the 2009 and Strict eligibility requirements and improvements in the pre-approval process contributed to the improvement in net-to-gross ratios
10	Direct Install Lighting	* Though overall performance is above expectations, participation continues to decline year over year as the initiative reaches maturity * 70% of province-wide resource savings persist to 2014 * Over 35% of the projects for 2011 included at least one CFL measure * Resource savings from CFLs in the commercial sector only persist for the industry standard of 3 years * Since 2009 the overall realization rate for this program has improved * 2011 evaluation recorded the highest energy realization rate to date at 89.5%

#	Initiative	OPA Province-Wide Key Evaluation Findings
		* The hours of use values were held constant from the 2010 evaluation and continue to be the main driver of energy realization rate * Lights installed in "as needed" areas (e.g., bathrooms, storage areas) were determined to have very low realization rates due to the difference in actual energy saved vs. reported savings
11	Existing Building Commissioning Incentive	* Initiative was not evaluated in 2011, no completed projects in 2011
12	New Construction and Major Renovation Incentive	* Initiative was not evaluated in 2011 due to low uptake * Assumptions used are consistent with preliminary reporting based on the 2010 Evaluation findings and consultation with the C&I Work Group (100% realization rate and 50% net-to-gross ratio)
13	Energy Audit	* The evaluation is ongoing. The sample size for 2011 was too small to draw reliable conclusions.
14	Commercial Demand Response (part of the Residential program schedule)	* See residential demand response (#7)
15	Demand Response 3 (part of the Industrial program schedule)	* See Demand Response 3 (#20)
Industrial Program		
16	Process & System Upgrades	* Initiative was not evaluated in 2011, no completed projects in 2011
17	Monitoring & Targeting	* Initiative was not evaluated in 2011, no completed projects in 2011
18	Energy Manager	* Initiative was not evaluated in 2011, no completed projects in 2011
19	Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	* See Efficiency: Equipment Replacement (#9)
20	Demand Response 3	* Program performance for Tier 1 customers increased with DR-3 participants providing 75% * Industrial customers outperform commercial customers by provide 84% and 76% of contracted MW, respectively * Program continues to diversify but still remains heavily concentrated with less than 5% of * By increasing the number of contributors in each settlement account and implementation of the new baseline methodology the performance of the program is expected to increase
Home Assistance Program		
21	Home Assistance Program	* Initiative was not evaluated in 2011 due to low uptake * Business Case assumptions were used to calculate savings
Pre-2011 Programs completed in 2011		

#	Initiative	OPA Province-Wide Key Evaluation Findings
22	Electricity Retrofit Incentive Program	* Initiative was not evaluated * Net-to-Gross ratios used are consistent with the 2010 evaluation findings (multifamily buildings 99% realization rate and 62% net-to-gross ratio and C&I buildings 77% realization rate and 52% net-to-gross ratio)
23	High Performance New Construction	* Initiative was not evaluated * Net-to-Gross ratios used are consistent with the 2010 evaluation findings (realization rate of 100% and net-to-gross ratio of 50%)
24	Toronto Comprehensive	* Initiative was not evaluated * Net-to-Gross ratios used are consistent with the 2010 evaluation findings
25	Multifamily Energy Efficiency Rebates	* Initiative was not evaluated * Net-to-Gross ratios used are consistent with the 2010 evaluation findings
26	Data Centre Incentive Program	* Initiative was not evaluated
27	EnWin Green Suites	* Initiative was not evaluated

Table 5: Summarized Program Results

Program	Gross Savings			Net Savings		Contribution to Targets	
	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)		Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Program-to-Date: Net Annual Peak Demand Savings (kW) in 2014	Program-to-Date: 2011-2014 Net Cumulative Energy Savings (kWh)
Consumer Program Total	102	329,561		62	234,271	61	935,894
Business Program Total	158	651,731		151	547,899	116	2,086,393
Industrial Program Total	0	0		0	0	0	0
Home Assistance Program Total	0	0		0	0	0	0
Pre-2011 Programs completed in 2011 Total	6	27,256		4	16,215	4	64,861
Total OPA Contracted Province-Wide CDM Programs	**266**	**1,008,547**		**217**	**798,386**	**181**	**3,087,149**

#	Initiative	Realization Rate		Gross Savings		Net-to-Gross Ratio		Net Savings		Contribution to Targets	
		Peak Demand Savings	Energy Savings	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Peak Demand Savings	Energy Savings	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Program-to-Date: Net Annual Peak Demand Savings (kW) in 2014	Program-to-Date: 2011-2014 Net Cumulative Energy Savings (kWh)
Consumer Program											
1	Appliance Retirement	100%	100%	11	75,452	51%	52%	6	39,179	5	156,514
2	Appliance Exchange	100%	100%	3	3,679	52%	52%	2	1,896	1	6,596
3	HVAC Incentives	100%	100%	83	162,687	60%	60%	49	96,849	49	387,395
4	Conservation Instant Coupon Booklet	100%	100%	2	34,638	114%	112%	2	38,330	2	153,321
5	Bi-Annual Retailer Event	100%	100%	3	53,105	113%	110%	3	58,017	3	232,069
6	Retailer Co-op	-	-	0	0	-	-	0	0	0	0
7	Residential Demand Response	0%	0%	0	0	-	-	0	0	0	0
8	Residential New Construction	-	-	0	0	-	-	0	0	0	0
Business Program											
9	Efficiency: Equipment Replacement	94%	134%	55	346,394	74%	76%	41	264,382	41	1,057,527
10	Direct Install Lighting	108%	90%	103	305,337	93%	93%	110	283,517	75	1,028,866
11	Existing Building Commissioning Incentive	-	-	0	0	-	-	0	0	0	0
12	New Construction and Major Renovation Incentive	-	-	0	0	-	-	0	0	0	0
13	Energy Audit	-	-	0	0	-	-	0	0	0	0
14	Commercial Demand Response (part of the Residential program schedule)	0%	0%	0	0	-	-	0	0	0	0
15	Demand Response 3 (part of the Industrial program schedule)	76%	100%	0	0	n/a	n/a	0	0	0	0
Industrial Program											
16	Process & System Upgrades	-	-	0	0	-	-	0	0	0	0
17	Monitoring & Targeting	-	-	0	0	-	-	0	0	0	0
18	Energy Manager	-	-	0	0	-	-	0	0	0	0
19	Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	-	-	0	0	-	-	0	0	0	0
20	Demand Response 3	84%	100%	0	0	n/a	n/a	0	0	0	0
Home Assistance Program											
21	Home Assistance Program	-	-	0	0	-	-	0	0	0	0
Pre-2011 Programs completed in 2011											
22	Electricity Retrofit Incentive Program	96%	95%	6	26,276	61%	60%	4	15,726	4	62,903
23	High Performance New Construction	100%	100%	0	979	50%	50%	0	490	0	1,959
24	Toronto Comprehensive	-	-	0	0	-	-	0	0	0	0
25	Multifamily Energy Efficiency Rebates	-	-	0	0	-	-	0	0	0	0
26	Data Centre Incentive Program	-	-	0	0	-	-	0	0	0	0
27	EnWin Green Suites	-	-	0	0	-	-	0	0	0	0

Assumes demand response resources have a persistence of 1 year

Progress Towards CDM Targets

Results are attributed to target using current OPA 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. Please see methodology tab for more detailed information.

Yellow cells are intended for the LDC to input information to complete their OEB Reporting Template.

Table 6: Net Peak Demand Savings at the End User Level (MW)

Implementation Period	Annual			
	2011	2012	2013	2014
2011 - Verified	0.22	0.22	0.21	0.18
2012				
2013				
2014				0.00
Verified Net Annual Peak Demand Savings Persisting in 2014:				0.18
Ottawa River Power Corporation 2014 Annual CDM Capacity Target:				1.61
Verified Portion of Peak Demand Savings Target Achieved in 2014(%):				11.21%
LDC Milestone submitted for 2011				-%
Variance				

Table 7: Net Energy Savings at the End User Level (GWh)

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011 - Verified	0.80	0.80	0.79	0.70	3.09
2012					
2013					
2014					
Verified Net Cumulative Energy Savings 2011-2014:					3.09
Ottawa River Power Corporation 2011-2014 Cumulative CDM Energy Target:					8.97
Verified Portion of Cumulative Energy Target Achieved (%):					34.42%
LDC Milestone submitted for 2011					-%
Variance					

Table P1: Province-Wide Participation

#	Initiative	Activity Unit	Uptake/ Participation Units
Consumer Program			
1	Appliance Retirement	Appliances	56,110
2	Appliance Exchange	Appliances	3,688
3	HVAC Incentives	Equipment	111,587
4	Conservation Instant Coupon Booklet	Products[4]	559,462
5	Bi-Annual Retailer Event	Products[5]	870,332
6	Retailer Co-op	Products	152
7	Residential Demand Response	Devices	19,577
8	Residential New Construction	Houses	7
Business Program			
9	Efficiency: Equipment Replacement	Projects	2,516
10	Direct Installed Lighting	Projects	20,297
11	Existing Building Commissioning Incentive	Buildings	-
12	New Construction and Major Renovation Incentive	Buildings	10
13	Energy Audit	Audits	103
14	Commercial Demand Response (part of the Residential program schedule)	Devices	264
15	Demand Response 3 (part of the Industrial program schedule)	Facilities	148
Industrial Program			
16	Process & System Upgrades[2]	Projects	-
17	Monitoring & Targeting[2]	Projects	-
18	Energy Manager[2 3]	Managers	-
19	Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)[1]	Projects	433
20	Demand Response 3	Facilities	134
Home Assistance Program			
21	Home Assistance Program	Homes	46
Pre 2011 Programs Completed in 2011			
22	Electricity Retrofit Incentive Program	Projects	2,023
23	High Performance New Construction	Projects	145
24	Toronto Comprehensive	Projects	553
25	Multifamily Energy Efficiency Rebates	Projects	110
26	Data Centre Incentive Program	Projects	5
27	EnWin Green Suites	Projects	3

[2] *Results are based on completed incentive projects (see "Methodology" tab for more information)*

[3] *Includes: Roving Energy Managers, Key Account Managers and Embedded Energy Managers with completed projects*

[4] *209,693 valid coupons redeemed*

[5] *369,446 valid coupons redeemed*

Table P2: Province-Wide Results

Program	Gross Savings			Net Savings	
	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)		Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)
Consumer Program Total	73,757	192,379,633		49,123	133,519,668
Business Program Total	78,048	251,304,448		64,594	198,124,227
Industrial Program Total	68,648	41,493,145		57,099	31,947,577
Home Assistance Program Total	4	56,119		2	39,283
Pre-2011 Programs completed in 2011 Total	87,169	460,822,079		44,833	241,853,020
Total OPA Contracted Province-Wide CDM Programs	**307,626**	**946,055,425**		**215,651**	**605,483,775**

#	Initiative	Realization Rate		Gross Savings		Net-to-Gross Ratio		Net Savings	
		Peak Demand Savings	Energy Savings	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Peak Demand Savings	Energy Savings	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)
Consumer Program									
1	Appliance Retirement	100%	100%	6,750	45,971,627	51%	51%	3,299	23,005,812
2	Appliance Exchange	100%	100%	719	873,531	51%	51%	371	450,187
3	HVAC Incentives	100%	100%	53,209	99,413,430	60%	60%	32,037	59,437,670
4	Conservation Instant Coupon Booklet	100%	100%	1,184	19,192,453	114%	111%	1,344	21,211,537
5	Bi-Annual Retailer Event	100%	100%	1,504	26,899,265	112%	110%	1,681	29,387,468
6	Retailer Co-op	100%	100%	0	3,917	68%	68%	0	2,652
7	Residential Demand Response	n/a	n/a	10,390	23,597	n/a	n/a	10,390	23,597
8	Residential New Construction	100%	100%	0	1,813	41%	41%	0	743
Business Program									
9	Efficiency: Equipment Replacement	106%	91%	34,201	184,070,265	72%	74%	24,467	136,002,258
10	Direct Installed Lighting	108%	93%	22,155	65,777,197	108%	93%	23,724	61,076,701
11	Existing Building Commissioning Incentive	-	-	-	-	-	-	-	-
12	New Construction and Major Renovation Incentive	50%	50%	247	823,434	50%	50%	123	411,717
13	Energy Audit	-	-	-	-	-	-	-	-
14	Commercial Demand Response (part of the Residential program schedule)	n/a	n/a	55	131	n/a	n/a	55	131
15	Demand Response 3 (part of the Industrial program schedule)	76%	n/a	21,390	633,421	n/a	n/a	16,224	633,421
Industrial Program									
16	Process & System Upgrades	-	-	-	-	-	-	-	-
17	Monitoring & Targeting	-	-	-	-	-	-	-	-
18	Energy Manager	-	-	-	-	-	-	-	-
19	Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	111%	91%	6,372	38,412,408	72%	75%	4,615	28,866,840
20	Demand Response 3	84%	n/a	62,276	3,080,737	n/a	n/a	52,484	3,080,737
Home Assistance Program									
21	Home Assistance Program	100%	100%	4	56,119	70%	70%	2	39,283
Pre-2011 Programs completed in 2011									
22	Electricity Retrofit Incentive Program	80%	80%	40,418	223,956,390	54%	54%	21,550	120,492,549
23	High Performance New Construction	100%	100%	10,197	52,371,183	49%	49%	5,098	26,185,591
24	Toronto Comprehensive	113%	113%	33,467	174,070,574	50%	52%	15,805	86,964,886
25	Multifamily Energy Efficiency Rebates	93%	93%	2,553	9,774,792	78%	78%	1,981	7,595,683
26	Data Centre Incentive Program	100%	100%	81	533,038	100%	100%	81	533,038
27	EnWin Green Suites	100%	100%	453	116,102	70%	70%	317	81,272

Assumes demand response resources have a persistence of 1 year

Program	Contribution to Targets	
	Program-to-Date: Net Annual Peak Demand Savings (kW) in 2014	Program-to-Date: 2011-2014 Net Cumulative Energy Savings (kWh)
Consumer Program Total	38,405	534,017,835
Business Program Total	41,048	767,657,790
Industrial Program Total	4,613	118,543,019
Home Assistance Program Total	2	157,134
Pre-2011 Programs completed in 2011 Total	44,833	967,412,079
Total OPA Contracted Province-Wide CDM Programs	**128,901**	**2,387,787,856**

#	Initiative	Contribution to Targets	
		Program-to-Date: Net Annual Peak Demand Savings (kW) in 2014	Program-to-Date: 2011-2014 Net Cumulative Energy Savings (kWh)
Consumer Program			
1	Appliance Retirement	3,160	91,903,303
2	Appliance Exchange	181	1,930,651
3	HVAC Incentives	32,037	237,750,681
4	Conservation Instant Coupon Booklet	1,344	84,846,148
5	Bi-Annual Retailer Event	1,681	117,549,874
6	Retailer Co-op	0	10,607
7	Residential Demand Response	0	23,597
8	Residential New Construction	0	2,973
Business Program			
9	Efficiency: Equipment Replacement	24,438	543,856,392
10	Direct Installed Lighting	16,486	221,520,977
11	Existing Building Commissioning Incentive	-	-
12	New Construction and Major Renovation Incentive	123	1,646,869
13	Energy Audit	-	-
14	Commercial Demand Response (part of the Residential program schedule)	0	131
15	Demand Response 3 (part of the Industrial program schedule)	0	633,421
Industrial Program			
16	Process & System Upgrades	-	-
17	Monitoring & Targeting	-	-
18	Energy Manager	-	-
19	Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	4,613	115,462,282
20	Demand Response 3	0	3,080,737
Home Assistance Program			
21	Home Assistance Program	2	157,134
Pre-2011 Programs completed in 2011			
22	Electricity Retrofit Incentive Program	21,550	481,970,197
23	High Performance New Construction	5,098	104,742,366
24	Toronto Comprehensive	15,805	347,859,545
25	Multifamily Energy Efficiency Rebates	1,981	30,382,733
26	Data Centre Incentive Program	81	2,132,152
27	EnWin Green Suites	317	325,086

Assumes demand response resources have a persistence of 1 year

Summary - Provincial Progress

Table P3: Province-Wide Net Peak Demand Savings at the End User Level (MW)

Implementation Period	Annual			
	2011	2012	2013	2014
2011	215.7	136.4	135.7	128.9
2012				
2013				
2014				
Verified Net Annual Peak Demand Savings in 2014:				128.9
2014 Annual CDM Capacity Target				1,330
Verified Peak Demand Savings Target Achieved - 2011 (%):				9.69%

Table P4: Province-Wide Net Energy Savings at the End-User Level (GWh)

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011	605.5	601.6	599.6	580.9	2,388
2012					0
2013					0
2014					0
Verified Net Cumulative Energy Savings 2011-2014:					2,388
2011-2014 Cumulative CDM Energy Target:					6,000
Verified Portion of Energy Target Achieved - 2011 (%):					39.79%

METHODOLOGY

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

EQUATIONS:

PRESCRIPTIVE MEASURES/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/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)

#	Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Consumer Program				
1	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.
2	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	
3	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
4	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. Initiative was not evaluated in 2011, reported results are presented with verified per unit assumptions and net-to-gross ratio from Bi-Annual Retailer Event and Conservation Instant Coupon Booklet initiatives.
5	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.	
6	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. Initiative was not evaluated in 2011, reported results are presented with verified per unit assumptions and net-to-gross ratio from Bi-Annual Retailer Event and Conservation Instant Coupon Booklet initiatives.

#	Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
7	Residential Demand Response	Results are directly attributed to LDC based on data provided to OPA 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.
8	Residential New Construction	Results are directly attributed to LDC based on LDC identified in application in the saveONenergy CRM 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 a 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				

#	Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
9	Efficiency: Equipment Replacement	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).
		Additional Note: project counts were derived by filtering out "Application Status" = "Post-Project Submission - Payment denied by LDC" and only including projects with an "Actual Project Completion Date" in 2011 and pulling both the "Application Name" field followed by the "Building Address 1" field from the Post Stage Retrofit Report and finally performing a count of the Building Addresses.		
10	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).

#	Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
11	Existing Building Commissioning Incentive	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated, no completed projects in 2011.	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).
12	New Construction and Major Renovation Incentive	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated, reported results are presented with reported assumptions (as per evaluated results in 2010 and consultation with OPA-LDC Work Groups)	Savings are considered to begin in the year of the actual project completion date.	
13	Energy Audit	No resource savings results determined in 2011; 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).
14	Commercial Demand Response (part of the Residential program schedule)	Results are directly attributed to LDC based on data provided to OPA 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.

#	Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
15	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				
16	Process & System Upgrades	Results are directly attributed to LDC based on LDC identified in application in the saveONenergy CRM system; Initiative was not evaluated, no completed projects in 2011.	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
17	Monitoring & Targeting	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated, no completed projects in 2011.	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).
18	Energy Manager	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated, no completed projects in 2011.	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
19	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).
20	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				
21	Home Assistance Program	Results are directly attributed to LDC based on LDC identified in the application; 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 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.
Pre-2011 Programs completed in 2011				
22	Electricity Retrofit Incentive Program	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 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).
23	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, assumptions as per 2010 evaluation	Savings are considered to begin in the year in which a project was completed.	
24	Toronto Comprehensive	Program run exclusively in Toronto Hydro-Electric System Limited service territory; Initiative was not evaluated in 2011, assumptions as per 2010 evaluation		

#	Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
25	Multifamily Energy Efficiency Rebates	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 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).
26	Data Centre Incentive Program	Program run exclusively in PowerStream Inc. service territory; Initiative was not evaluated in 2011, assumptions as per 2009 evaluation		
27	EnWin Green Suites	Program run exclusively in ENWIN Utilities Ltd. service territory; Initiative was not evaluated in 2011, assumptions as per 2010 evaluation		

ERII Sector (C&I vs. Industrial Mapping)	
Building Type	**Sector**
Agribusiness - Cattle Farm	C&I
Agribusiness - Dairy Farm	C&I
Agribusiness - Greenhouse	C&I
Agribusiness - Other	C&I
Agribusiness - Other,Mixed-Use - Office/Retail	C&I
Agribusiness - Other,Office,Retail,Warehouse	C&I
Agribusiness - Other,Office,Warehouse	C&I
Agribusiness - Poultry	C&I
Agribusiness - Poultry,Hospitality - Motel	C&I
Agribusiness - Swine	C&I
Convenience Store	C&I
Education - College / Trade School	C&I
Education - College / Trade School,Multi-Residential - Condominium	C&I
Education - College / Trade School,Multi-Residential - Rental Apartment	C&I
Education - College / Trade School,Retail	C&I
Education - Primary School	C&I
Education - Primary School,Education - Secondary School	C&I
Education - Primary School,Multi-Residential - Rental Apartment	C&I
Education - Primary School,Not-for-Profit	C&I
Education - Secondary School	C&I
Education - University	C&I
Education - University,Office	C&I
Hospital/Healthcare - Clinic	C&I
Hospital/Healthcare - Clinic,Hospital/Healthcare - Long-term Care,Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Clinic,Industrial	C&I
Hospital/Healthcare - Clinic,Retail	C&I
Hospital/Healthcare - Long-term Care	C&I
Hospital/Healthcare - Long-term Care,Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Medical Building,Mixed-Use - Office/Retail	C&I
Hospital/Healthcare - Medical Building,Mixed-Use - Office/Retail,Office	C&I
Hospitality - Hotel	C&I
Hospitality - Hotel,Restaurant - Dining	C&I
Hospitality - Motel	C&I
Industrial	Industrial
Mixed-Use - Office/Retail	C&I
Mixed-Use - Office/Retail,Industrial	Industrial
Mixed-Use - Office/Retail,Mixed-Use - Other	C&I
Mixed-Use - Office/Retail,Mixed-Use - Other,Not-for-Profit,Warehouse	C&I
Mixed-Use - Office/Retail,Mixed-Use - Residential/Retail	C&I
Mixed-Use - Office/Retail,Office,Restaurant - Dining,Restaurant - Quick Serve,Retail,Warehouse	C&I

Mixed-Use - Office/Retail,Office,Warehouse	C&I
Mixed-Use - Office/Retail,Retail	C&I
Mixed-Use - Office/Retail,Warehouse	C&I
Mixed-Use - Office/Retail,Warehouse,Industrial	Industrial
Mixed-Use - Other	C&I
Mixed-Use - Other,Industrial	Industrial
Mixed-Use - Other,Not-for-Profit,Office	C&I
Mixed-Use - Other,Office	C&I
Mixed-Use - Other,Other: Please specify	C&I
Mixed-Use - Other,Retail,Warehouse	C&I
Mixed-Use - Other,Warehouse	C&I
Mixed-Use - Residential/Retail	C&I
Mixed-Use - Residential/Retail,Multi-Residential - Condominium	C&I
Mixed-Use - Residential/Retail,Multi-Residential - Rental Apartment	C&I
Mixed-Use - Residential/Retail,Retail	C&I
Multi-Residential - Condominium	C&I
Multi-Residential - Condominium,Multi-Residential - Rental Apartment	C&I
Multi-Residential - Condominium,Other: Please specify	C&I
Multi-Residential - Rental Apartment	C&I
Multi-Residential - Rental Apartment,Multi-Residential - Social Housing Provider,Not-for-Profit	C&I
Multi-Residential - Rental Apartment,Not-for-Profit	C&I
Multi-Residential - Rental Apartment,Warehouse	C&I
Multi-Residential - Social Housing Provider	C&I
Multi-Residential - Social Housing Provider,Industrial	C&I
Multi-Residential - Social Housing Provider,Not-for-Profit	C&I
Not-for-Profit	C&I
Not-for-Profit,Office	C&I
Not-for-Profit,Other: Please specify	C&I
Not-for-Profit,Warehouse	C&I
Office	C&I
Office,Industrial	Industrial
Office,Other: Please specify	C&I
Office,Other: Please specify,Warehouse	C&I
Office,Restaurant - Dining	C&I
Office,Restaurant - Dining,Industrial	Industrial
Office,Retail	C&I
Office,Retail,Industrial	C&I
Office,Retail,Warehouse	C&I
Office,Warehouse	C&I
Office,Warehouse,Industrial	Industrial
Other: Please specify	C&I
Other: Please specify,Industrial	Industrial
Other: Please specify,Retail	C&I
Other: Please specify,Warehouse	C&I
Restaurant - Dining	C&I
Restaurant - Dining,Retail	C&I

Restaurant - Quick Serve	C&I
Restaurant - Quick Serve,Retail	C&I
Retail	C&I
Retail,Industrial	Industrial
Retail,Warehouse	C&I
Warehouse	C&I
Warehouse,Industrial	Industrial

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 in a given year 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' (please see table 5).

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 (i.e. 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).

Message from the Vice President:

The OPA is pleased to provide you with the enclosed Final 2012 Results Report. We have seen a 39% increase in energy savings for our new province-wide 2011-2014 suite of saveONenergy initiatives. Overall progress to targets is moving up with 29% of demand and 65% of energy savings achieved. Many LDCs, both large and small, continue to stay on track to meet or exceed their OEB targets. Conservation programs continue to be a valuable and cost effective resource for customers across the province, over the past two years the program cost to consumers remains within 3 cents per kWh.

Further to programmatic savings, capability building efforts launched in 2011 are yielding healthy enabled savings through Embedded Energy Managers and Audit initiative projects. The strong momentum continues in 2013.

We remain committed to ensuring LDCs are successful in meeting their objectives and our collective efforts to date have improved the current program suite by offering more local program opportunities, implementing a new expedited change management process, and enhancing incentives to make it easier for customers to participate in programs. We invite you to continue to provide your feedback to us and to celebrate our successes as we move forward.

The format of this report was developed in collaboration with the OPA-LDC Reporting and Evaluation Working Group and is designed to help populate LDC annual report templates that will be submitted to the OEB in late September. All results are now considered final for 2012. Any additional 2012 program activity not captured will be reported in the Final 2013 Results Report.

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

We appreciate your ongoing collaboration and cooperation throughout the reporting and evaluation process. We look forward to another successful year.

Sincerely,

Andrew Pride

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OPA-Contracted Province-Wide CDM Programs FINAL 2012 Results

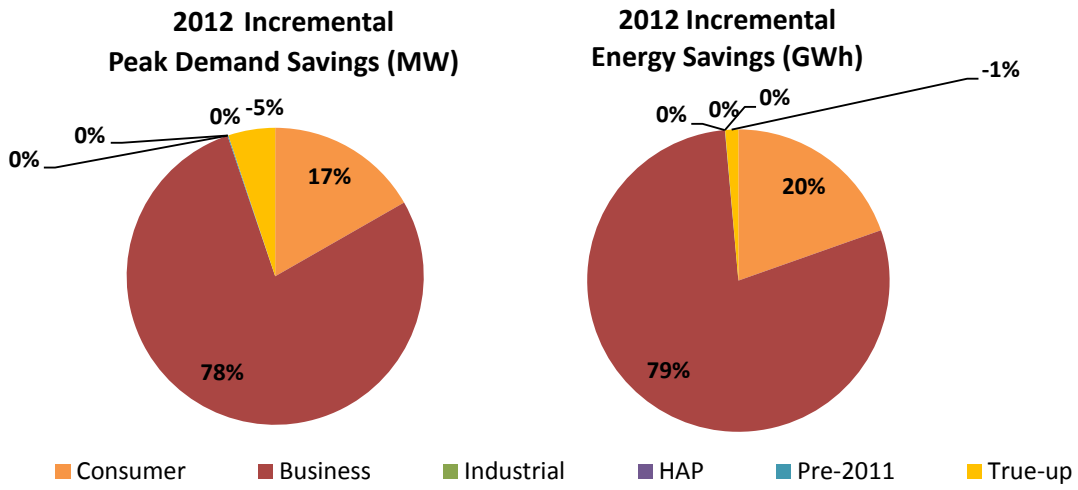
LDC: Ottawa River Power Corporation

FINAL 2012 Progress to Targets	2012 Incremental	Program-to-Date Progress to Target (Scenario 1)	Scenario 1: % of Target Achieved	Scenario 2: % of Target Achieved
Net Annual Peak Demand Savings (MW)	0.2	0.4	**23.4%**	**23.4%**
Net Energy Savings (GWh)	0.8	5.4	**60.1%**	**60.1%**

Scenario 1 = Assumes that demand resource resources have a persistence of 1 year

Scenario 2 = Assumes that demand response resources remain in your territory until 2014

Achievement by Sector



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

The following graphs assume that demand response resources remain in your territory until 2014 (aligns with Scenario 2)

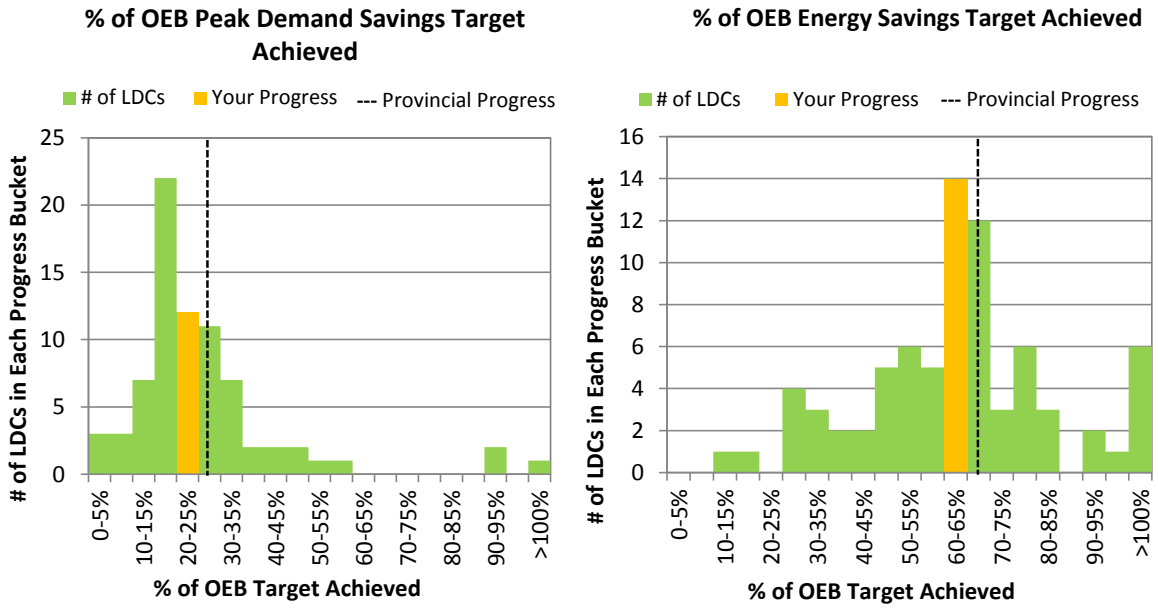


Table 1: **Ottawa River Power Corporation** Initiative and Program Level Savings by Year (Scenario 1)

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
														2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
		2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program															
Appliance Retirement	Appliances	92	146			6	8			39,179	56,155			14	324,980
Appliance Exchange	Appliances	16	5			2	1			1,896	1,251			1	10,348
HVAC Incentives	Equipment	153	98			49	24			96,849	44,321			74	520,357
Conservation Instant Coupon Booklet	Items	998	61			2	0			38,330	2,760			3	161,602
Bi-Annual Retailer Event	Items	1,718	2,094			3	3			58,017	52,873			6	390,688
Retailer Co-op	Items	0	0			0	0			0	0			0	0
Residential Demand Response (switch/pstat)	Devices	0	0			0	0			0	0			0	0
Residential Demand Response (IHD)	Devices	0	0			0				0					
Residential New Construction	Homes	0	0			0	0			0	0			0	0
Consumer Program Total						**62**	**37**			**234,271**	**157,360**			**98**	**1,407,975**
Business Program															
Retrofit	Projects	6	16			41	60			264,382	211,874			101	1,693,149
Direct Install Lighting	Projects	109	120			110	112			283,517	422,290			187	2,293,211
Building Commissioning	Buildings	0	0			0	0			0	0			0	0
New Construction	Buildings	0	0			0	0			0	0			0	0
Energy Audit	Audits	0	0			0	0			0	0			0	0
Small Commercial Demand Response	Devices	0	0			0	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			0	0
Business Program Total						**151**	**172**			**547,899**	**634,164**			**288**	**3,986,360**
Industrial Program															
Process & System Upgrades	Projects	0	0			0	0			0	0			0	0
Monitoring & Targeting	Projects	0	0			0	0			0	0			0	0
Energy Manager	Projects	0	0			0	0			0	0			0	0
Retrofit	Projects	0				0				0				0	0
Demand Response 3	Facilities	0	0			0	0			0	0			0	0
Industrial Program Total						**0**	**0**			**0**	**0**			**0**	**0**
Home Assistance Program															
Home Assistance Program	Homes	0	0			0	0			0	0			0	0
Home Assistance Program Total						**0**	**0**			**0**	**0**			**0**	**0**
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	2	0			4	0			15,726	0			4	62,903
High Performance New Construction	Projects	0	0			0	0			490	216			0	2,607
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						**4**	**0**			**16,215**	**216**			**4**	**65,510**
Other															
Program Enabled Savings	Projects	0	0			0	0			0	0			0	0
Time-of-Use Savings	Homes														
Other Total							**0**				**0**			**0**	**0**
Adjustments to Previous Year's Verified Results							**-11**				**-15,574**			**-12**	**-64,489**
Energy Efficiency Total						**217**	**209**			**798,386**	**791,740**			**389**	**5,459,845**
Demand Response Total (Scenario 1)						**0**	**0**			**0**	**0**			**0**	**0**
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						**217**	**198**			**798,386**	**776,166**			**377**	**5,395,357**
													Full OEB Target:	**1,610**	**8,970,000**
													% of Full OEB Target Achieved to Date (Scenario 1):	**23.4%**	**60.1%**

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

Due to the limited timeframe of data, which didn't include the summer months, 2012 IHD results have been deemed inconclusive. The IHD line item on the 2012 annual report will be left blank. Once a full year of data is available (2013 evaluation), and the savings are quantified, 2012 results will be updated to reflect the quantified savings.

Table 2: Adjustments to **Ottawa River Power Corporation** Verified Results due to Errors or Omissions (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)
Consumer Program															
Appliance Retirement	Appliances	0				0				0				0	0
Appliance Exchange	Appliances	0				0				0				0	0
HVAC Incentives	Equipment	-49				-15				-28,452				-15	-113,810
Conservation Instant Coupon Booklet	Items	16				0				544				0	2,177
Bi-Annual Retailer Event	Items	162				0				4,310				0	17,242
Retailer Co-op	Items	0				0				0				0	0
Residential Demand Response (switch/pstat)*	Devices	0				0				0				0	0
Residential Demand Response (IHD)	Devices	0				0				0				0	0
Residential New Construction	Homes	0				0				0				0	0
Consumer Program Total						**-15**				**-23,598**				**-15**	**-94,391**
Business Program															
Retrofit	Projects	0				0				0				0	0
Direct Install Lighting	Projects	4				3				8,023				3	29,902
Building Commissioning	Buildings	0				0				0				0	0
New Construction	Buildings	0				0				0				0	0
Energy Audit	Audits	0				0				0				0	0
Small Commercial Demand Response (switch/pstat)*	Devices	0				0				0				0	0
Small Commercial Demand Response (IHD)	Devices	0				0				0				0	0
Demand Response 3*	Facilities	0				0				0				0	0
Business Program Total						**3**				**8,023**				**3**	**29,902**
Industrial Program															
Process & System Upgrades	Projects	0				0				0				0	0
Monitoring & Targeting	Projects	0				0				0				0	0
Energy Manager	Projects	0				0				0				0	0
Retrofit	Projects	0				0				0				0	0
Demand Response 3*	Facilities	0				0				0				0	0
Industrial Program Total						**0**				**0**				**0**	**0**
Home Assistance Program															
Home Assistance Program	Homes	0				0				0				0	0
Home Assistance Program Total						**0**				**0**				**0**	**0**
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	0				0				0				0	0
High Performance New Construction	Projects	0				0				0				0	0
Toronto Comprehensive	Projects	0				0				0				0	0
Multifamily Energy Efficiency Rebates	Projects	0				0				0				0	0
LDC Custom Programs	Projects	0				0				0				0	0
Pre-2011 Programs completed in 2011 Total						**0**				**0**				**0**	**0**
Other															
Program Enabled Savings	Projects	0				0				0				0	0
Time-of-Use Savings	Homes														
Other Total						**0**				**0**				**0**	**0**
Adjustments to Previous Year's Verified Results						**-11**				**-15,574**				**-12**	**-64,489**

* Activity & savings for Demand Response resources for each year and quarter represent the savings from all active facilities or devices contracted since January 1, 2011.

Table 3: Ottawa River Power Corporation 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				0.46				1.00				0.47		
Appliance Exchange		1.00				0.52				1.00				0.52		
HVAC Incentives		1.00				0.49				1.00				0.49		
Conservation Instant Coupon Booklet		1.00				1.00				1.00				1.05		
Bi-Annual Retailer Event		1.00				0.91				1.00				0.92		
Retailer Co-op		n/a				n/a				n/a				n/a		
Residential Demand Response (switch/pstat)*		n/a				n/a				n/a				n/a		
Residential Demand Response (IHD)		n/a				n/a				n/a				n/a		
Residential New Construction		n/a				n/a				n/a				n/a		
Business Program																
Retrofit		1.00				0.80				1.24				0.81		
Direct Install Lighting		0.68				0.94				0.85				0.94		
Building Commissioning		n/a				n/a				n/a				n/a		
New Construction		n/a				n/a				n/a				n/a		
Energy Audit		n/a				n/a				n/a				n/a		
Small Commercial Demand Response (switch/pstat)*		n/a				n/a				n/a				n/a		
Small Commercial Demand Response (IHD)		n/a				n/a				n/a				n/a		
Demand Response 3*		n/a				n/a				n/a				n/a		
Industrial Program																
Process & System Upgrades		n/a				n/a				n/a				n/a		
Monitoring & Targeting		n/a				n/a				n/a				n/a		
Energy Manager		n/a				n/a				n/a				n/a		
Retrofit																
Demand Response 3*		n/a				n/a				n/a				n/a		
Home Assistance Program																
Home Assistance Program		n/a				n/a				n/a				n/a		
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program		n/a				n/a				n/a				n/a		
High Performance New Construction		1.00				0.50				1.00				0.50		
Toronto Comprehensive		n/a				n/a				n/a				n/a		
Multifamily Energy Efficiency Rebates		n/a				n/a				n/a				n/a		
LDC Custom Programs		n/a				n/a				n/a				n/a		
Other																
Program Enabled Savings		n/a				n/a				n/a				n/a		
Time-of-Use Savings		n/a				n/a				n/a				n/a		

Progress Towards CDM Targets

Results are attributed to target using current OPA 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. Please see methodology tab for more detailed information.

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

Implementation Period	Annual			
	2011	2012	2013	2014
2011 - Verified	0.2	0.2	0.2	0.2
2012 - Verified		0.2	0.2	0.2
2013				
2014				
Verified Net Annual Peak Demand Savings Persisting in 2014:				0.4
Ottawa River Power Corporation 2014 Annual CDM Capacity Target				1.6
Verified Portion of Peak Demand Savings Target Achieved in 2014(%):				23.4%

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

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011 - Verified	0.8	0.8	0.8	0.7	3.1
2012 - Verified		0.8	0.8	0.8	2.3
2013					
2014					
Verified Net Cumulative Energy Savings 2011-2014:					5.4
Ottawa River Power Corporation 2011-2014 Annual CDM Energy Target					9.0
Verified Portion of Cumulative Energy Target Achieved (%):					60.1%

*2011 energy adjustments included in cumulative energy savings.

Table 6: Province-Wide Initiatives and Program Level Savings by Year

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
														2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
		2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program															
Appliance Retirement	Appliances	56,110	34,146			3,299	2,011			23,005,812	13,424,518			5,171	132,176,857
Appliance Exchange	Appliances	3,688	3,836			371	556			450,187	974,621			689	4,512,525
HVAC Incentives	Equipment	111,587	85,221			32,037	19,060			59,437,670	32,841,283			51,097	336,274,530
Conservation Instant Coupon Booklet	Items	559,462	30,891			1,344	230			21,211,537	1,398,202			1,575	89,040,754
Bi-Annual Retailer Event	Items	870,332	1,060,901			1,681	1,480			29,387,468	26,781,674			3,161	197,894,897
Retailer Co-op	Items	152	0			0	0			2,652	0			0	10,607
Residential Demand Response (switch/pstat)*	Devices	19,550	98,388			10,947	49,038			24,870	359,408			0	384,279
Residential Demand Response (IHD)	Devices	0	49,689			0				0					
Residential New Construction	Homes	7	19			0	2			743	17,152			2	54,430
Consumer Program Total						**49,681**	**72,377**			**133,520,941**	**75,796,859**			**61,696**	**760,348,879**
Business Program															
Retrofit	Projects	2,516	5,605			24,467	61,147			136,002,258	314,922,468			84,018	1,480,647,459
Direct Install Lighting	Projects	20,297	18,494			23,724	15,284			61,076,701	57,345,798			31,181	391,072,869
Building Commissioning	Buildings	0	0			0	0			0	0			0	0
New Construction	Buildings	10	69			123	764			411,717	1,814,721			888	7,091,031
Energy Audit	Audits	103	280			0	1,450			0	7,049,351			1,450	21,148,054
Small Commercial Demand Response	Devices	132	294			84	187			157	1,068			0	1,224
Small Commercial Demand Response (IHD)	Devices	0	0			0				0				0	0
Demand Response 3*	Facilities	145	151			16,218	19,389			633,421	281,823			0	915,244
Business Program Total						**64,617**	**98,221**			**198,124,253**	**381,415,230**			**117,535**	**1,900,875,881**
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	39			0	1,086			0	7,372,108			1,086	22,116,324
Retrofit	Projects	433				4,615				28,866,840				4,613	115,462,282
Demand Response 3*	Facilities	124	185			52,484	74,056			3,080,737	1,784,712			0	4,865,449
Industrial Program Total						**57,098**	**75,141**			**31,947,577**	**9,156,820**			**5,699**	**142,444,054**
Home Assistance Program															
Home Assistance Program	Homes	46	5,033			2	566			39,283	5,442,232			569	16,483,831
Home Assistance Program Total						**2**	**566**			**39,283**	**5,442,232**			**569**	**16,483,831**
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	2,016	0			21,662	0			121,138,219	0			21,662	484,552,876
High Performance New Construction	Projects	145	69			5,098	3,251			26,185,591	11,901,944			8,349	140,448,197
Toronto Comprehensive	Projects	577	0			15,805	0			86,964,886	0			15,805	347,859,545
Multifamily Energy Efficiency Rebates	Projects	110	0			1,981	0			7,595,683	0			1,981	30,382,733
LDC Custom Programs	Projects	8	0			399	0			1,367,170	0			399	5,468,679
Pre-2011 Programs completed in 2011 Total						**44,945**	**3,251**			**243,251,550**	**11,901,944**			**48,195**	**1,008,712,030**
Other															
Program Enabled Savings	Projects	0	16			0	2,304			0	1,188,362			2,304	3,565,086
Time-of-Use Savings	Homes														
Other Total							**2,304**				**1,188,362**			**2,304**	**3,565,086**
Adjustments to Previous Year's Verified Results							**1,406**				**18,689,081**			**1,156**	**73,918,598**
Energy Efficiency Total						**136,610**	**109,191**			**603,144,419**	**482,474,435**			**235,998**	**3,826,263,564**
Demand Response Total (Scenario 1)						**79,733**	**142,670**			**3,739,185**	**2,427,011**			**0**	**6,166,196**
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						**216,343**	**253,267**			**606,883,604**	**503,590,526**			**237,154**	**3,906,348,358**
													Full OEB Target:	**1,330,000**	**6,000,000,000**
													% of Full OEB Target Achieved to Date (Scenario 1):	**17.8%**	**65.1%**

* Activity & savings for Demand Response resources for each year and quarter represent the savings from all active facilities or devices contracted since January 1, 2011.

Due to the limited timeframe of data, which didn't include the summer months, 2012 IHD results have been deemed inconclusive. The IHD line item on the 2012 annual report will be left blank. Once a full year of data is available (2013 evaluation), and the savings are quantified, 2012 results will be updated to reflect the quantified savings.

Table 7: Adjustments to **Province-Wide** Verified Results due to Errors & Omissions (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) 2014	2011-2014 Net Cumulative Energy Savings (kWh) 2014
Consumer Program															
Appliance Retirement	Appliances	0				0				0				0	0
Appliance Exchange	Appliances	0				0				0				0	0
HVAC Incentives	Equipment	-18,866				-5,278				-9,721,817				-5,278	-38,887,267
Conservation Instant Coupon Booklet	Items	8,216				16				275,655				16	1,102,621
Bi-Annual Retailer Event	Items	81,817				108				2,183,391				108	8,733,563
Retailer Co-op	Items	0				0				0				0	0
Residential Demand Response (switch/pstat)*	Devices	0				0				0				0	0
Residential Demand Response (IHD)	Devices	0				0				0				0	0
Residential New Construction	Homes	19				1				13,767				1	55,069
Consumer Program Total						**-5,153**				**-7,249,004**				**-5,153**	**-28,996,015**
Business Program															
Retrofit	Projects	303				3,204				16,216,165				3,083	64,398,674
Direct Install Lighting	Projects	444				501				1,250,388				372	4,624,945
Building Commissioning	Buildings	0				0				0				0	0
New Construction	Buildings	12				828				3,520,620				828	14,082,482
Energy Audit	Audits	93				481				2,341,392				481	9,365,567
Small Commercial Demand Response (switch/pstat)*	Devices	0				0				0				0	0
Small Commercial Demand Response (IHD)	Devices	0				0				0				0	0
Demand Response 3*	Facilities	0				0				0				0	0
Business Program Total						**5,014**				**23,328,565**				**4,764**	**92,471,668**
Industrial Program															
Process & System Upgrades	Projects	0				0				0				0	0
Monitoring & Targeting	Projects	0				0				0				0	0
Energy Manager	Projects	0				0				0				0	0
Retrofit	Projects	0				0				0				0	0
Demand Response 3*	Facilities	0				0				0				0	0
Industrial Program Total						**0**				**0**				**0**	**0**
Home Assistance Program															
Home Assistance Program	Homes	0				0				0				0	0
Home Assistance Program Total						**0**				**0**				**0**	**0**
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	12				138				545,536				138	2,182,145
High Performance New Construction	Projects	34				1,407				2,065,200				1,407	8,260,800
Toronto Comprehensive	Projects	0				0				0				0	0
Multifamily Energy Efficiency Rebates	Projects	0				0				0				0	0
LDC Custom Programs	Projects	0				0				0				0	0
Pre-2011 Programs completed in 2011 Total						**1,545**				**2,610,736**				**1,545**	**10,442,945**
Other															
Program Enabled Savings	Projects	0				0				0				0	0
Time-of-Use Savings	Homes														
Other Total						**0**				**0**				**0**	**0**
Adjustments to Previous Year's Verified Results						**1,406**				**18,690,297**				**1,156**	**73,918,598**

* Activity & savings for Demand Response resources for each year and quarter represent the savings from all active facilities or devices contracted since January 1, 2011.

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				0.46				1.00				0.47		
Appliance Exchange		1.00				0.52				1.00				0.52		
HVAC Incentives		1.00				0.50				1.00				0.49		
Conservation Instant Coupon Booklet		1.00				1.00				1.00				1.05		
Bi-Annual Retailer Event		1.00				0.91				1.00				0.92		
Retailer Co-op		n/a				n/a				n/a				n/a		
Residential Demand Response (switch/pstat)*		n/a				n/a				n/a				n/a		
Residential Demand Response (IHD)		n/a				n/a				n/a				n/a		
Residential New Construction		3.65				0.49				7.17				0.49		
Business Program																
Retrofit		0.93				0.75				1.05				0.76		
Direct Install Lighting		0.69				0.94				0.85				0.94		
Building Commissioning		n/a				n/a				n/a				n/a		
New Construction		0.98				0.49				0.99				0.49		
Energy Audit		n/a				n/a				n/a				n/a		
Small Commercial Demand Response (switch/pstat)*		n/a				n/a				n/a				n/a		
Small Commercial Demand Response (IHD)		n/a				n/a				n/a				n/a		
Demand Response 3*		n/a				n/a				n/a				n/a		
Industrial Program																
Process & System Upgrades		n/a				n/a				n/a				n/a		
Monitoring & Targeting		n/a				n/a				n/a				n/a		
Energy Manager		1.16				0.90				1.16				0.90		
Retrofit																
Demand Response 3*		n/a				n/a				n/a				n/a		
Home Assistance Program																
Home Assistance Program		0.32				1.00				0.99				1.00		
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program		n/a				n/a				n/a				n/a		
High Performance New Construction		1.00				0.50				1.00				0.50		
Toronto Comprehensive		n/a				n/a				n/a				n/a		
Multifamily Energy Efficiency Rebates		n/a				n/a				n/a				n/a		
LDC Custom Programs		n/a				n/a				n/a				n/a		
Other																
Program Enabled Savings		1.06				1.00				2.26				1.00		
Time-of-Use Savings		n/a				n/a				n/a				n/a		

Summary - Provincial Progress

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		253.3	109.8	108.2
2013				
2014				
Verified Net Annual Peak Demand Savings in 2014:				237.2
2014 Annual CDM Capacity Target				1,330
Verified Peak Demand Savings Target Achieved - 2011 (%):				17.8%

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

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011	606.9	603.0	601.0	582.3	2,393
2012		503.6	498.4	492.6	1,513
2013					
2014					
Verified Net Cumulative Energy Savings 2011-2014:					3,906
2011-2014 Cumulative CDM Energy Target:					6,000
Verified Portion of Energy Target Achieved - 2011 (%):					65.1%

*2011 energy adjustments included in cumulative energy savings.

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 Year's Verified Results	All errors and omissions from the prior years Final Annual Results report will be adjusted within this report. Any errors and ommissions 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 OPA 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 saveONenergy CRM 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 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).
	Additional Note: project counts were derived by filtering out "Application Status" = "Post-Project Submission - Payment denied by LDC" and only including projects with an "Actual Project Completion Date" in 2012 and pulling both the "Application Name" field followed by the "Building Address 1" field from the Post Stage Retrofit Report and finally performing a count of the Building Addresses.		

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; Initiative was not evaluated, no completed projects in 2011 or 2012.	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 OPA 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 in the saveONenergy CRM system; Initiative was not evaluated, no completed projects in 2011 or 2012.	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; Initiative was not evaluated, no completed projects in 2011 or 2012.	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; No completed projects in 2011 or 2012.	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.
Home Assistance Program			

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
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.
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 or 2012, 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).
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 or 2012, 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 or 2012, 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 or 2012, 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		

ERII Sector (C&I vs. Industrial Mapping)	
Building Type	**Sector**
Agribusiness - Cattle Farm	C&I
Agribusiness - Dairy Farm	C&I
Agribusiness - Greenhouse	C&I
Agribusiness - Other	C&I
Agribusiness - Other,Mixed-Use - Office/Retail	C&I
Agribusiness - Other,Office,Retail,Warehouse	C&I
Agribusiness - Other,Office,Warehouse	C&I
Agribusiness - Poultry	C&I
Agribusiness - Poultry,Hospitality - Motel	C&I
Agribusiness - Swine	C&I
Convenience Store	C&I
Education - College / Trade School	C&I
Education - College / Trade School,Multi-Residential - Condominium	C&I
Education - College / Trade School,Multi-Residential - Rental Apartment	C&I
Education - College / Trade School,Retail	C&I
Education - Primary School	C&I
Education - Primary School,Education - Secondary School	C&I
Education - Primary School,Multi-Residential - Rental Apartment	C&I
Education - Primary School,Not-for-Profit	C&I
Education - Secondary School	C&I
Education - University	C&I
Education - University,Office	C&I
Hospital/Healthcare - Clinic	C&I
Hospital/Healthcare - Clinic,Hospital/Healthcare - Long-term Care,Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Clinic,Industrial	C&I
Hospital/Healthcare - Clinic,Retail	C&I
Hospital/Healthcare - Long-term Care	C&I
Hospital/Healthcare - Long-term Care,Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Medical Building,Mixed-Use - Office/Retail	C&I
Hospital/Healthcare - Medical Building,Mixed-Use - Office/Retail,Office	C&I
Hospitality - Hotel	C&I
Hospitality - Hotel,Restaurant - Dining	C&I
Hospitality - Motel	C&I
Industrial	Industrial
Mixed-Use - Office/Retail	C&I
Mixed-Use - Office/Retail,Industrial	Industrial
Mixed-Use - Office/Retail,Mixed-Use - Other	C&I
Mixed-Use - Office/Retail,Mixed-Use - Other,Not-for-Profit,Warehouse	C&I
Mixed-Use - Office/Retail,Mixed-Use - Residential/Retail	C&I
Mixed-Use - Office/Retail,Office,Restaurant - Dining,Restaurant - Quick Serve,Retail,Warehouse	C&I

Mixed-Use - Office/Retail,Office,Warehouse	C&I
Mixed-Use - Office/Retail,Retail	C&I
Mixed-Use - Office/Retail,Warehouse	C&I
Mixed-Use - Office/Retail,Warehouse,Industrial	Industrial
Mixed-Use - Other	C&I
Mixed-Use - Other,Industrial	Industrial
Mixed-Use - Other,Not-for-Profit,Office	C&I
Mixed-Use - Other,Office	C&I
Mixed-Use - Other,Other: Please specify	C&I
Mixed-Use - Other,Retail,Warehouse	C&I
Mixed-Use - Other,Warehouse	C&I
Mixed-Use - Residential/Retail	C&I
Mixed-Use - Residential/Retail,Multi-Residential - Condominium	C&I
Mixed-Use - Residential/Retail,Multi-Residential - Rental Apartment	C&I
Mixed-Use - Residential/Retail,Retail	C&I
Multi-Residential - Condominium	C&I
Multi-Residential - Condominium,Multi-Residential - Rental Apartment	C&I
Multi-Residential - Condominium,Other: Please specify	C&I
Multi-Residential - Rental Apartment	C&I
Multi-Residential - Rental Apartment,Multi-Residential - Social Housing Provider,Not-for-Profit	C&I
Multi-Residential - Rental Apartment,Not-for-Profit	C&I
Multi-Residential - Rental Apartment,Warehouse	C&I
Multi-Residential - Social Housing Provider	C&I
Multi-Residential - Social Housing Provider,Industrial	C&I
Multi-Residential - Social Housing Provider,Not-for-Profit	C&I
Not-for-Profit	C&I
Not-for-Profit,Office	C&I
Not-for-Profit,Other: Please specify	C&I
Not-for-Profit,Warehouse	C&I
Office	C&I
Office,Industrial	Industrial
Office,Other: Please specify	C&I
Office,Other: Please specify,Warehouse	C&I
Office,Restaurant - Dining	C&I
Office,Restaurant - Dining,Industrial	Industrial
Office,Retail	C&I
Office,Retail,Industrial	C&I
Office,Retail,Warehouse	C&I
Office,Warehouse	C&I
Office,Warehouse,Industrial	Industrial
Other: Please specify	C&I
Other: Please specify,Industrial	Industrial
Other: Please specify,Retail	C&I
Other: Please specify,Warehouse	C&I
Restaurant - Dining	C&I
Restaurant - Dining,Retail	C&I

Restaurant - Quick Serve	C&I
Restaurant - Quick Serve,Retail	C&I
Retail	C&I
Retail,Industrial	Industrial
Retail,Warehouse	C&I
Warehouse	C&I
Warehouse,Industrial	Industrial

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 in a given year 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' (please see table 5).

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 (i.e. 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).

Message from the Vice President:

The OPA is pleased to provide you with the enclosed Final 2013 Verified Results Report.

2013 Report highlights:

- We have achieved 86% of our cumulative energy savings target and 48% of our annual peak demand savings target to date (Scenario 2).

  By the end of 2013, 42 LDCs have exceeded 80% of their energy target and 19 LDCs have met or exceeded their 2011-14 energy target.
- In 2013, LDCs have achieved over 600 GWh in savings, representing an increase of 20% over the 2012 net incremental energy savings results.
- The BUSINESS PROGRAM continues to generate strong interest and participation amongst business customers with significant savings results. 71% of total energy savings in 2013 came from the BUSINESS PROGRAM and its momentum continues. Also, as the program matures, we are seeing more and more studies in the PROCESS AND SYSTEMS pipeline converting to completed projects.
- Within 4 cents per kWh, Conservation programs continue to be a valuable and cost effective resource for customers across the province.

2013 has been a year of significant operational advancements centered around creating a better customer and LDC experience:

- A number of operational changes were made in 2013 to enhance processes, such as payment of LDC invoices streamlined to an average of 20 days, enhanced reporting and iCon updates to improve users' experience.
- Proactive updates to measures incentivized through saveONenergy have allowed programs to stay ahead of changing market conditions. Specifically in 2013, LEDs became popular measures in both the Consumer and Business programs.
- Technical tools also played a significant role in 2013, which included an updated Measure and Assumptions List as well as new and improved engineering worksheets for RETROFIT which allow customers to more easily access programs by building strong business cases based on latest estimates of savings potential.
- The Conservation Fund introduced the LDC Fast Track stream to support LDCs with innovative program ideas. 2013 LDC pilots included Oshawa PUC Networks Inc.'s retro-commissioning program, Toronto Hydro-Electric System Limited multi-unit demand response, and Niagara-on-the-Lake Hydro Inc.'s electric vehicles load shifting program.
- Key market sectors were also engaged in 2013 through Capability Building programs targeted at Home Builders and HVAC Installers to build conservation knowledge with these partners. Energy Efficiency Services Programs (EESPs) also provided valuable support to a variety of sectors.

The format of this report was developed in collaboration with the Reporting Working Group and is designed to help LDCs populate their 2013 Annual Reports that will be submitted to the OEB by September 30th. Any additional 2013 program activity not captured here will be reported in your Final 2014 Verified Results Report.

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

We appreciate your ongoing collaboration and cooperation throughout the reporting and evaluation process. We look forward to another successful year in 2014.

Sincerely,

Andrew Pride

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OPA-Contracted Province-Wide CDM Programs Final Verified 2013 Results

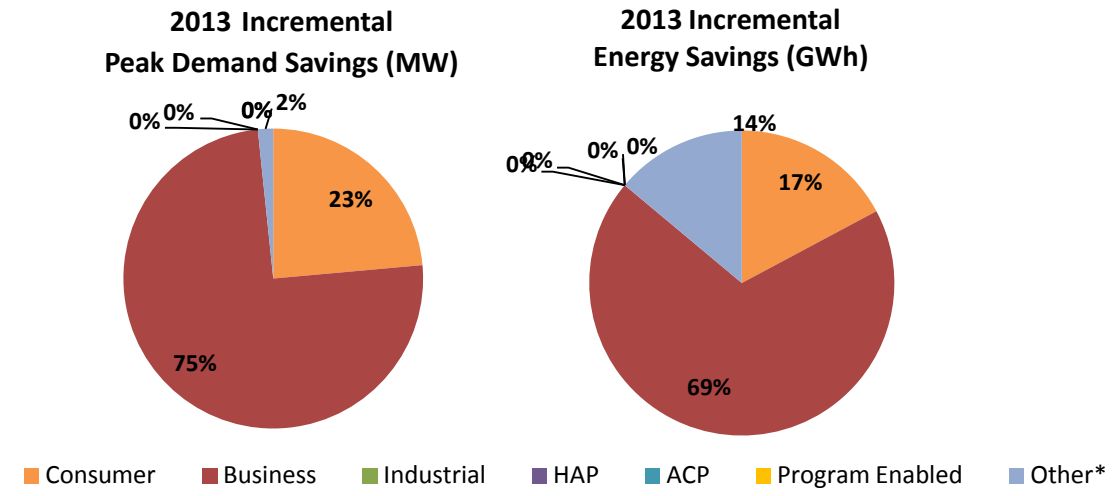
LDC: Ottawa River Power Corporation

FINAL 2013 Progress to Targets	2013 Incremental	Program-to-Date Progress to Target (Scenario 1)	Scenario 1: % of Target Achieved	Scenario 2: % of Target Achieved
Net Annual Peak Demand Savings (MW)	0.2	0.5	**33.7%**	**34.1%**
Net Energy Savings (GWh)	0.7	7.0	**77.5%**	**77.5%**

Scenario 1 = Assumes that demand response resources have a persistence of 1 year

Scenario 2 = Assumes that demand response resources remain in the LDC service territory until 2014

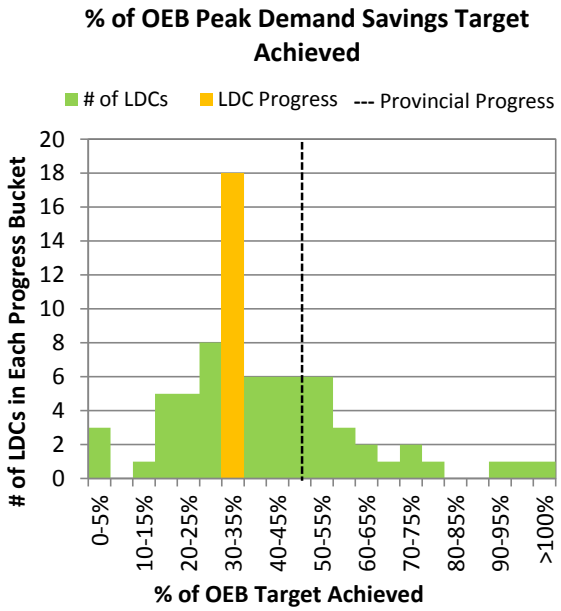
Achievement by Sector



**Other includes adjustments to previous years' results and savings from pre-2011 initiatives*

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

The following graphs assume that demand response resources remain in the LDC service territory until 2014 (aligns with Scenario 2)



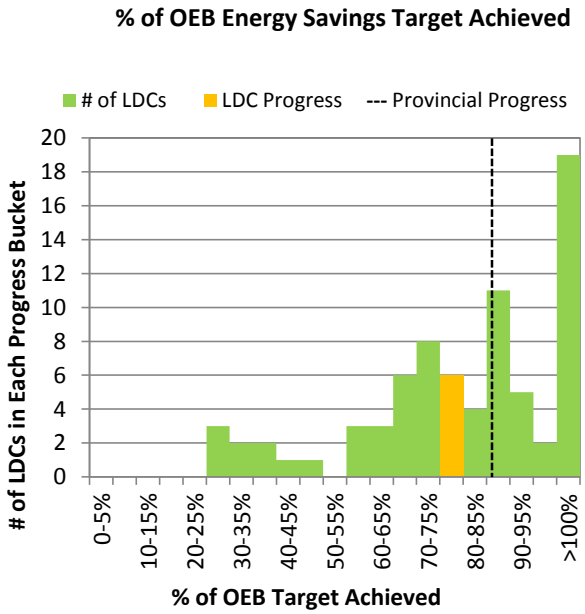


Table 1: Ottawa River Power Corporation Initiative and Program Level Net Savings by Year (Scenario 1)

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)	
														2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
		2011*	2012*	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program															
Appliance Retirement	Appliances	92	146	64		6	8	4		39,179	56,155	26,275		18	377,531
Appliance Exchange	Appliances	16	5	11		2	1	2		1,896	1,251	4,064		3	18,476
HVAC Incentives	Equipment	104	103	103		49	24	25		96,849	44,321	45,706		98	611,769
Conservation Instant Coupon Booklet	Items	1,014	61	685		2	0	1		38,330	2,760	15,216		4	192,034
Bi-Annual Retailer Event	Items	1,880	2,094	1,865		3	3	2		58,017	52,873	33,917		9	458,521
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	14		0	0	6		0	0	0		0	0
Residential Demand Response (IHD)	Devices	0	0	13		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						**62**	**37**	**40**		**234,271**	**157,360**	**125,178**		**132**	**1,658,332**
Business Program															
Retrofit	Projects	6	18	20		41	60	38		264,382	211,874	180,759		138	2,054,375
Direct Install Lighting	Projects	113	122	102		110	112	91		283,517	422,290	320,746		278	2,934,703
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	0	0	0		0	0	0		0	0	0		0	0
Energy Audit	Audits	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (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						**151**	**172**	**128**		**547,899**	**634,164**	**501,504**		**416**	**4,989,078**
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	0		0	0	0		0	0	0		0	0
Home Assistance Program Total						**0**	**0**	**0**		**0**	**0**	**0**		**0**	**0**
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	2	0	0		4	0	0		15,726	0	0		4	62,903
High Performance New Construction	Projects	0	0	0		0	0	0		490	216	0		0	2,607
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						**4**	**0**	**0**		**16,215**	**216**	**0**		**4**	**65,510**
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							**-11**	**0**			**-15,574**	**0**		**-12**	**-64,489**
Adjustments to 2012 Verified Results								**3**				**101,352**		**3**	**304,055**
Energy Efficiency Total						**217**	**209**	**163**		**798,386**	**791,740**	**626,683**		**552**	**6,712,920**
Demand Response Total (Scenario 1)						**0**	**0**	**6**		**0**	**0**	**0**		**0**	**0**
Adjustments to Previous Years' Verified Results Total						**0**	**-11**	**3**		**0**	**-15,574**	**101,352**		**-9**	**239,567**
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						**217**	**198**	**172**		**798,386**	**776,166**	**728,034**		**543**	**6,952,486**
													Full OEB Target:	**1,610**	**8,970,000**
													% of Full OEB Target Achieved to Date (Scenario 1):	**33.7%**	**77.5%**

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

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Energy Manager, Aboriginal Program and Program Enabled Savings were not independently evaluated

Table 2: Adjustments to Ottawa River Power Corporation 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)			
		2011*	2012*	2013	2014	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	-49	5			-15	1			-28,452	2,344		
Conservation Instant Coupon Booklet	Items	16	0			0	0			544	0		
Bi-Annual Retailer Event	Items	162	0			0	0			4,310	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						**-15**	**1**			**-23,598**	**2,344**		
Business Program													
Retrofit	Projects	0	2			0	0			0	93,965		
Direct Install Lighting	Projects	4	2			3	1			8,023	5,043		
Building Commissioning	Buildings	0	0			0	0			0	0		
New Construction	Buildings	0	0			0	0			0	0		
Energy Audit	Audits	0	0			0	0			0	0		
Small Commercial Demand Response	Devices	0	0			0	0			0	0		
Small Commercial Demand Response (IHD)	Devices	0	0			0	0			0	0		
Demand Response 3	Facilities	0	0			0	0			0	0		
Business Program Total						**3**	**2**			**8,023**	**99,008**		
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**		
Home Assistance Program													
Home Assistance Program	Homes	0	0			0	0			0	0		
Home Assistance Program Total						**0**	**0**			**0**	**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													
Electricity Retrofit Incentive Program	Projects	0	0			0	0			0	0		
High Performance New Construction	Projects	0	0			0	0			0	0		
Toronto Comprehensive	Projects	0	0			0	0			0	0		
Multifamily Energy Efficiency Rebates	Projects	0	0			0	0			0	0		
LDC Custom Programs	Projects	0	0			0	0			0	0		
Pre-2011 Programs completed in 2011 Total						**0**	**0**			**0**	**0**		
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**		
Adjustments to 2011 Verified Results						**-11**				**-15,574**			
Adjustments to 2012 Verified Results							**3**				**101,352**		
Total Adjustments to Previous Years' Verified Results						**-11**	**3**			**-15,574**	**101,352**		

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).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above does not consider persistence of savings

Table 3: Ottawa River Power Corporation 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		0.51	0.46	0.42		1.00	1.00	n/a		0.52	0.47	0.44	
Appliance Exchange	1.00	1.00	1.00		0.52	0.52	0.53		1.00	1.00	1.00		0.52	0.52	0.53	
HVAC Incentives	1.00	1.00	n/a		0.60	0.49	0.48		1.00	1.00	n/a		0.60	0.49	0.48	
Conservation Instant Coupon Booklet	1.00	1.00	1.00		1.14	1.00	1.11		1.00	1.00	1.00		1.12	1.05	1.13	
Bi-Annual Retailer Event	1.00	1.00	1.00		1.13	0.91	1.04		1.00	1.00	1.00		1.10	0.92	1.04	
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	
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	
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	
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	
Business Program																
Retrofit	0.94	1.00	0.91		0.74	0.80	0.71		1.34	1.24	1.04		0.76	0.81	0.72	
Direct Install Lighting	1.08	0.68	0.81		0.93	0.94	0.94		0.90	0.85	0.84		0.93	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	
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	
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	
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	
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	
Demand Response 3	0.76	n/a	n/a		n/a	n/a	n/a		1.00	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	
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	
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	
Retrofit																
Demand Response 3	0.84	n/a	n/a		n/a	n/a	n/a		1.00	n/a	n/a		n/a	n/a	n/a	
Home Assistance 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	
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	
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	
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program	0.96	n/a	n/a		0.61	n/a	n/a		0.95	n/a	n/a		0.60	n/a	n/a	
High Performance New Construction	1.00	1.00	1.00		0.50	0.50	0.50		1.00	1.00	1.00		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	
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	
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	
Other																
Program Enabled Savings	n/a	n/a	n/a		n/a	n/a	n/a		n/a	n/a	n/a		n/a	n/a	n/a	
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	

Energy Manager, Aboriginal Program and Program Enabled Savings were not independently evaluated

Summary Progress Towards CDM Targets

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

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

Implementation Period	Annual			
	2011	2012	2013	2014
2011 - Verified	0.2	0.2	0.2	0.2
2012 - Verified†	0.0	0.2	0.2	0.2
2013 - Verified†	0.0	0.0	0.2	0.2
2014				
Verified Net Annual Peak Demand Savings Persisting in 2014:				0.5
Ottawa River Power Corporation 2014 Annual CDM Capacity Target:				1.6
Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):				33.8%

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

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011 - Verified	0.8	0.8	0.8	0.7	3.1
2012 - Verified†	0.0	0.8	0.8	0.8	2.3
2013 - Verified†	0.0	0.1	0.7	0.7	1.6
2014					
Verified Net Cumulative Energy Savings 2011-2014:					7.0
Ottawa River Power Corporation 2011-2014 Annual CDM Energy Target:					9.0
Verified Portion of Cumulative Energy Target Achieved in 2014 (%):					77.5%

†Includes adjustments to previous Years' verified results

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

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
														2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
		2011*	2012*	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program															
Appliance Retirement	Appliances	56,110	34,146	20,952		3,299	2,011	1,433		23,005,812	13,424,518	8,713,107		6,605	149,603,072
Appliance Exchange	Appliances	3,688	3,836	5,337		371	556	1,106		450,187	974,621	1,971,701		1,795	8,455,927
HVAC Incentives	Equipment	92,743	87,427	91,581		32,037	19,060	19,552		59,437,670	32,841,283	33,923,592		70,650	404,121,713
Conservation Instant Coupon Booklet	Items	567,678	30,891	346,896		1,344	230	517		21,211,537	1,398,202	7,707,573		2,091	104,455,900
Bi-Annual Retailer Event	Items	952,149	1,060,901	944,772		1,681	1,480	1,184		29,387,468	26,781,674	17,179,841		4,345	232,254,579
Retailer Co-op	Items	152	0	0		0	0	0		2,652	0	0		0	10,607
Residential Demand Response	Devices	19,550	98,388	171,733		10,947	49,038	93,076		24,870	359,408	390,303		0	774,582
Residential Demand Response (IHD)	Devices	0	49,689	133,657		0	0	0		0	0	0		0	0
Residential New Construction	Homes	26	19	86		0	2	18		743	17,152	163,690		20	381,811
Consumer Program Total						**49,681**	**72,377**	**116,886**		**133,520,941**	**75,796,859**	**70,049,807**		**85,506**	**900,058,189**
Business Program															
Retrofit	Projects	2,819	6,134	8,785		24,467	61,147	59,678		136,002,258	314,922,468	345,346,008		142,831	2,168,497,702
Direct Install Lighting	Projects	20,741	18,691	17,782		23,724	15,284	18,708		61,076,701	57,345,798	64,315,558		49,886	519,693,356
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	22	69	86		123	764	1,584		411,717	1,814,721	4,959,266		2,472	17,009,564
Energy Audit	Audits	198	345	319		0	1,450	2,811		0	7,049,351	15,455,795		4,261	52,059,644
Small Commercial Demand Response	Devices	132	294	1,211		84	187	773		157	1,068	373		0	1,597
Small Commercial Demand Response (IHD)	Devices	0	0	378		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	145	151	175		16,218	19,389	23,706		633,421	281,823	346,659		0	1,261,903
Business Program Total						**64,617**	**98,221**	**107,261**		**198,124,253**	**381,415,230**	**430,423,659**		**199,449**	**2,758,523,766**
Industrial Program															
Process & System Upgrades	Projects	0	0	3		0	0	294		0	0	2,603,764		294	5,207,528
Monitoring & Targeting	Projects	0	0	0		0	0	0		0	0	0		0	0
Energy Manager	Projects	0	42	205		0	1,086	3,558		0	7,372,108	21,994,263		3,194	54,888,570
Retrofit	Projects	433	0	0		4,615	0	0		28,866,840	0	0		4,613	115,462,282
Demand Response 3	Facilities	124	185	281		52,484	74,056	162,543		3,080,737	1,784,712	4,309,160		0	9,174,609
Industrial Program Total						**57,098**	**75,141**	**166,395**		**31,947,577**	**9,156,820**	**28,907,187**		**8,101**	**184,732,989**
Home Assistance Program															
Home Assistance Program	Homes	46	5,033	26,756		2	566	2,361		39,283	5,442,232	20,987,275		2,904	57,949,913
Home Assistance Program Total						**2**	**566**	**2,361**		**39,283**	**5,442,232**	**20,987,275**		**2,904**	**57,949,913**
Aboriginal Program															
Home Assistance Program	Homes	0	0	584		0	0	267		0	0	1,609,393		267	3,218,786
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Aboriginal Program Total						**0**	**0**	**267**		**0**	**0**	**1,609,393**		**267**	**3,218,786**
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	2,028	0	0		21,662	0	0		121,138,219	0	0		21,662	484,552,876
High Performance New Construction	Projects	179	69	4		5,098	3,251	772		26,185,591	11,901,944	3,522,240		9,121	147,492,677
Toronto Comprehensive	Projects	577	0	0		15,805	0	0		86,964,886	0	0		15,805	347,859,545
Multifamily Energy Efficiency Rebates	Projects	110	0	0		1,981	0	0		7,595,683	0	0		1,981	30,382,733
LDC Custom Programs	Projects	8	0	0		399	0	0		1,367,170	0	0		399	5,468,679
Pre-2011 Programs completed in 2011 Total						**44,945**	**3,251**	**772**		**243,251,550**	**11,901,944**	**3,522,240**		**48,967**	**1,015,756,510**
Other															
Program Enabled Savings	Projects	14	56	13		0	2,304	3,692		0	1,188,362	4,075,382		5,996	11,715,850
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
Other Total						**0**	**2,304**	**3,692**		**0**	**1,188,362**	**4,075,382**		**5,996**	**11,715,850**
Adjustments to 2011 Verified Results							**1,406**	**641**			**18,689,081**	**1,736,381**		**1,797**	**80,864,121**
Adjustments to 2012 Verified Results								**6,260**				**41,947,840**		**6,180**	**126,287,857**
Energy Efficiency Total						**136,610**	**109,191**	**117,536**		**603,144,419**	**482,474,435**	**554,528,447**		**351,190**	**4,920,743,312**
Demand Response Total (Scenario 1)						**79,733**	**142,670**	**280,099**		**3,739,185**	**2,427,011**	**5,046,495**		**0**	**11,212,691**
Adjustments to Previous Years' Verified Results Total						**0**	**1,406**	**6,901**		**0**	**18,689,081**	**43,684,221**		**7,976**	**207,151,978**
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						**216,343**	**253,267**	**404,536**		**606,883,604**	**503,590,526**	**603,259,163**		**359,166**	**5,139,107,980**
													Full OEB Target:	**1,330,000**	**6,000,000,000**
													% of Full OEB Target Achieved to Date (Scenario 1):	**27.0%**	**85.7%**

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

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Energy Manager, Aboriginal Program and Program Enabled Savings were not independently evaluated

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)			
		2011*	2012*	2013	2014	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	-18,844	2,206			-5,271	452			-9,709,500	907,735		
Conservation Instant Coupon Booklet	Items	8,216	0			16	0			275,655	0		
Bi-Annual Retailer Event	Items	81,817	0			108	0			2,183,391	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	19	0			1	0			13,767	0		
Consumer Program Total						**-5,146**	**452**			**-7,236,687**	**907,735**		
Business Program													
Retrofit	Projects	303	529			3,204	4,443			16,216,165	28,739,635		
Direct Install Lighting	Projects	444	197			501	204			1,250,388	736,541		
Building Commissioning	Buildings	0	0			0	0			0	0		
New Construction	Buildings	12	0			828	0			3,520,620	0		
Energy Audit	Audits	95	65			492	337			2,391,744	1,636,457		
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						**5,025**	**4,984**			**23,378,917**	**31,112,632**		
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	3			0	68			0	719,235		
Retrofit	Projects	0	0			0	0			0	0		
Demand Response 3	Facilities	0	0			0	0			0	0		
Industrial Program Total						**0**	**68**			**0**	**719,235**		
Home Assistance Program													
Home Assistance Program	Homes	0	0			0	0			0	0		
Home Assistance Program Total						**0**	**0**			**0**	**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													
Electricity Retrofit Incentive Program	Projects	12	0			138	0			545,536	0		
High Performance New Construction	Projects	34	0			1,407	0			2,065,200	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						**1,545**	**0**			**2,610,736**	**0**		
Other													
Program Enabled Savings	Projects	14	40			624	824			1,673,712	9,927,473		
Time-of-Use Savings	Homes	0	0			0	0			0	0		
Other Total						**624**	**824**			**1,673,712**	**9,927,473**		
Adjustments to 2011 Verified Results						**2,047**				**20,426,678**			
Adjustments to 2012 Verified Results							**6,328**				**42,667,076**		
Adjustments to Previous Years' Verified Results Total						**2,047**	**6,328**			**20,426,678**	**42,667,076**		

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).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above does not consider persistence of savings

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		0.51	0.46	0.42		1.00	1.00	1.00		0.46	0.47	0.44	
Appliance Exchange	1.00	1.00	1.00		0.51	0.52	0.53		1.00	1.00	1.00		0.52	0.52	0.53	
HVAC Incentives	1.00	1.00	1.00		0.60	0.50	0.48		1.00	1.00	1.00		0.50	0.49	0.48	
Conservation Instant Coupon Booklet	1.00	1.00	1.00		1.14	1.00	1.11		1.00	1.00	1.00		1.00	1.05	1.13	
Bi-Annual Retailer Event	1.00	1.00	1.00		1.12	0.91	1.04		1.00	1.00	1.00		0.91	0.92	1.04	
Retailer Co-op	1.00	n/a	n/a		0.68	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	
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	
Residential New Construction	1.00	3.65	0.78		0.41	0.49	0.63		3.65	7.17	3.09		0.49	0.49	0.63	
Business Program																
Retrofit	1.06	0.93	0.92		0.72	0.75	0.73		0.93	1.05	1.01		0.75	0.76	0.73	
Direct Install Lighting	1.08	0.69	0.82		1.08	0.94	0.94		0.69	0.85	0.84		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	
New Construction	0.50	0.98	0.68		0.50	0.49	0.54		0.98	0.99	0.76		0.49	0.49	0.54	
Energy Audit	n/a	n/a	1.02		n/a	n/a	0.66		n/a	n/a	0.97		n/a	n/a	0.66	
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	
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	
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	
Industrial Program																
Process & System Upgrades	n/a	n/a	0.85		n/a	n/a	0.94		n/a	n/a	0.87		n/a	n/a	0.93	
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	
Energy Manager	n/a	1.16	0.90		n/a	0.90	0.90		1.16	1.16	0.90		0.90	0.90	0.90	
Retrofit	1.11	n/a	n/a		0.72	n/a	n/a		0.91	n/a	n/a		0.75	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	
Home Assistance Program																
Home Assistance Program	1.00	0.32	0.26		0.70	1.00	1.00		0.32	0.99	0.88		1.00	1.00	1.00	
Aboriginal Program																
Home Assistance Program	n/a	n/a	0.05		n/a	n/a	1.00		n/a	n/a	0.95		n/a	n/a	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	
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program	0.80	n/a	n/a		0.54	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		0.49	0.50	0.50		1.00	1.00	1.00		0.50	0.50	0.50	
Toronto Comprehensive	1.13	n/a	n/a		0.50	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		0.78	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		1.00	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		n/a	1.00	1.00		1.06	2.26	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	

Energy Manager, Aboriginal Program and Program Enabled Savings were not independently evaluated

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				
Verified Net Annual Peak Demand Savings in 2014:				359.2
2014 Annual CDM Capacity Target:				1,330
Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):				27.0%

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					
Verified Net Cumulative Energy Savings 2011-2014:					5,139.1
2011-2014 Cumulative CDM Energy Target:					6,000
Verified Portion of Cumulative Energy Target Achieved in 2014 (%):					85.7%

†Includes adjustments to previous Years' verified results

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 OPA 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 saveONenergy CRM 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 saveONenergy CRM; 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 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).
	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 2013)		

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; Initiative was not evaluated, no completed projects in 2011 or 2012.	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 OPA 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; Initiative was not evaluated, no completed projects in 2011, 2012 or 2013.	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 or 2013 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 or 2013, 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 or 2013, 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 or 2013, 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.		

Retrofit Sector (C&I vs. Industrial Mapping)	
Building Type	**Sector**
Agribusiness - Cattle Farm	C&I
Agribusiness - Dairy Farm	C&I
Agribusiness - Greenhouse	C&I
Agribusiness - Other	C&I
Agribusiness - Other,Mixed-Use - Office/Retail	C&I
Agribusiness - Other,Office,Retail,Warehouse	C&I
Agribusiness - Other,Office,Warehouse	C&I
Agribusiness - Poultry	C&I
Agribusiness - Poultry,Hospitality - Motel	C&I
Agribusiness - Swine	C&I
Convenience Store	C&I
Education - College / Trade School	C&I
Education - College / Trade School,Multi-Residential - Condominium	C&I
Education - College / Trade School,Multi-Residential - Rental Apartment	C&I
Education - College / Trade School,Retail	C&I
Education - Primary School	C&I
Education - Primary School,Education - Secondary School	C&I
Education - Primary School,Multi-Residential - Rental Apartment	C&I
Education - Primary School,Not-for-Profit	C&I
Education - Secondary School	C&I
Education - University	C&I
Education - University,Office	C&I
Hospital/Healthcare - Clinic	C&I
Hospital/Healthcare - Clinic,Hospital/Healthcare - Long-term Care,Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Clinic,Industrial	C&I
Hospital/Healthcare - Clinic,Retail	C&I
Hospital/Healthcare - Long-term Care	C&I
Hospital/Healthcare - Long-term Care,Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Medical Building,Mixed-Use - Office/Retail	C&I
Hospital/Healthcare - Medical Building,Mixed-Use - Office/Retail,Office	C&I
Hospitality - Hotel	C&I
Hospitality - Hotel,Restaurant - Dining	C&I
Hospitality - Motel	C&I
Industrial	Industrial
Mixed-Use - Office/Retail	C&I
Mixed-Use - Office/Retail,Industrial	Industrial
Mixed-Use - Office/Retail,Mixed-Use - Other	C&I
Mixed-Use - Office/Retail,Mixed-Use - Other,Not-for-Profit,Warehouse	C&I
Mixed-Use - Office/Retail,Mixed-Use - Residential/Retail	C&I
Mixed-Use - Office/Retail,Office,Restaurant - Dining,Restaurant - Quick Serve,Retail,Warehouse	C&I

Mixed-Use - Office/Retail,Office,Warehouse	C&I
Mixed-Use - Office/Retail,Retail	C&I
Mixed-Use - Office/Retail,Warehouse	C&I
Mixed-Use - Office/Retail,Warehouse,Industrial	Industrial
Mixed-Use - Other	C&I
Mixed-Use - Other,Industrial	Industrial
Mixed-Use - Other,Not-for-Profit,Office	C&I
Mixed-Use - Other,Office	C&I
Mixed-Use - Other,Other: Please specify	C&I
Mixed-Use - Other,Retail,Warehouse	C&I
Mixed-Use - Other,Warehouse	C&I
Mixed-Use - Residential/Retail	C&I
Mixed-Use - Residential/Retail,Multi-Residential - Condominium	C&I
Mixed-Use - Residential/Retail,Multi-Residential - Rental Apartment	C&I
Mixed-Use - Residential/Retail,Retail	C&I
Multi-Residential - Condominium	C&I
Multi-Residential - Condominium,Multi-Residential - Rental Apartment	C&I
Multi-Residential - Condominium,Other: Please specify	C&I
Multi-Residential - Rental Apartment	C&I
Multi-Residential - Rental Apartment,Multi-Residential - Social Housing Provider,Not-for-Profit	C&I
Multi-Residential - Rental Apartment,Not-for-Profit	C&I
Multi-Residential - Rental Apartment,Warehouse	C&I
Multi-Residential - Social Housing Provider	C&I
Multi-Residential - Social Housing Provider,Industrial	C&I
Multi-Residential - Social Housing Provider,Not-for-Profit	C&I
Not-for-Profit	C&I
Not-for-Profit,Office	C&I
Not-for-Profit,Other: Please specify	C&I
Not-for-Profit,Warehouse	C&I
Office	C&I
Office,Industrial	Industrial
Office,Other: Please specify	C&I
Office,Other: Please specify,Warehouse	C&I
Office,Restaurant - Dining	C&I
Office,Restaurant - Dining,Industrial	Industrial
Office,Retail	C&I
Office,Retail,Industrial	C&I
Office,Retail,Warehouse	C&I
Office,Warehouse	C&I
Office,Warehouse,Industrial	Industrial
Other: Please specify	C&I
Other: Please specify,Industrial	Industrial
Other: Please specify,Retail	C&I
Other: Please specify,Warehouse	C&I
Restaurant - Dining	C&I
Restaurant - Dining,Retail	C&I

Restaurant - Quick Serve	C&I
Restaurant - Quick Serve,Retail	C&I
Retail	C&I
Retail,Industrial	Industrial
Retail,Warehouse	C&I
Warehouse	C&I
Warehouse,Industrial	Industrial

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 in a given year 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: Ottawa River Power Corporation 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	11	8	10		75,452	56,155	56,282	
Appliance Exchange**	Appliances	3	1	4		3,679	1,251	7,721	
HVAC Incentives	Equipment	83	50	52		162,687	90,917	96,942	
Conservation Instant Coupon Booklet	Items	2	0	1		34,638	2,618	13,508	
Bi-Annual Retailer Event	Items	3	3	2		53,105	57,691	32,459	
Retailer Co-op	Items	0	0	0		0	0	0	
Residential Demand Response	Devices	0	0	6		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		**102**	**62**	**75**		**329,561**	**208,632**	**206,912**	
Business Program									
Retrofit	Projects	55	65	53		346,394	203,807	252,541	
Direct Install Lighting	Projects	103	151	96		305,337	507,526	339,820	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	0	0	0		0	0	0	
Energy Audit	Audits	0	0	0		0	0	0	
Small Commercial Demand Response	Devices	0	0	0		0	0	0	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Business Program Total		**158**	**215**	**149**		**651,731**	**711,333**	**592,361**	
Industrial Program									
Process & System Upgrades	Projects	0	0	0		0	0	0	
Monitoring & Targeting	Projects	0	0	0		0	0	0	
Energy Manager	Projects	0	0	0		0	0	0	
Retrofit	Projects	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Industrial Program Total		**0**	**0**	**0**		**0**	**0**	**0**	
Home Assistance Program									
Home Assistance Program	Homes	0	0	0		0	0	0	
Home Assistance Program Total		**0**	**0**	**0**		**0**	**0**	**0**	
Aboriginal Program									
Home Assistance Program	Homes	0	0	0		0	0	0	
Direct Install Lighting	Projects	0	0	0		0	0	0	
Aboriginal Program Total		**0**	**0**	**0**		**0**	**0**	**0**	
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	6	0	0		26,276	0	0	
High Performance New Construction	Projects	0	0	0		979	432	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		**6**	**0**	**0**		**27,256**	**432**	**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		**0**	**-21**	**0**		**0**	**-33,914**	**0**	
Adjustments to 2012 Verified Results		**0**	**0**	**5**		**0**	**0**	**163,068**	
Energy Efficiency Total		**266**	**278**	**218**		**1,008,547**	**920,397**	**799,273**	
Demand Response Total		**0**	**0**	**6**		**0**	**0**	**0**	
Adjustments to Previous Years' Verified Results Total		**0**	**-21**	**5**		**0**	**-33,914**	**163,068**	
OPA-Contracted LDC Portfolio Total (inc. Adjustments)		**266**	**257**	**228**		**1,008,547**	**886,483**	**962,341**	

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).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above does not consider persistence of savings

Gross results are presented for informational purposes only and are not considered official 2013 Final Verified Results

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

Table 12: Adjustments to Ottawa River Power Corporation 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		
Appliance Exchange	Appliances	0	0			0	0		
HVAC Incentives	Equipment	-25	3			-47,746	4,798		
Conservation Instant Coupon Booklet	Items	0	0			505	0		
Bi-Annual Retailer Event	Items	0	0			4,686	0		
Retailer Co-op	Items	0	0			0	0		
Residential Demand Response	Devices	0	0			0	0		
Residential Demand Response (IHD)	Devices	0	0			0	0		
Residential New Construction	Homes	0	0			0	0		
Consumer Program Total		**-25**	**3**			**-42,555**	**4,798**		
Business Program									
Retrofit	Projects	0	0			0	152,916		
Direct Install Lighting	Projects	4	2			8,641	5,354		
Building Commissioning	Buildings	0	0			0	0		
New Construction	Buildings	0	0			0	0		
Energy Audit	Audits	0	0			0	0		
Small Commercial Demand Response	Devices	0	0			0	0		
Small Commercial Demand Response (IHD)	Devices	0	0			0	0		
Demand Response 3	Facilities	0	0			0	0		
Business Program Total		**4**	**2**			**8,641**	**158,270**		
Industrial Program									
Process & System Upgrades	Projects	0	0			0	0		
Monitoring & Targeting	Projects	0	0			0	0		
Energy Manager	Projects	0	0			0	0		
Retrofit	Projects	0	0			0	0		
Demand Response 3	Facilities	0	0			0	0		
Industrial Program Total		**0**	**0**			**0**	**0**		
Home Assistance Program									
Home Assistance Program	Homes	0	0			0	0		
Home Assistance Program Total		**0**	**0**			**0**	**0**		
Aboriginal Program									
Home Assistance Program	Homes	0	0			0	0		
Direct Install Lighting	Projects	0	0			0	0		
Aboriginal Program Total									
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	0	0			0	0		
High Performance New Construction	Projects	0	0			0	0		
Toronto Comprehensive	Projects	0	0			0	0		
Multifamily Energy Efficiency Rebates	Projects	0	0			0	0		
LDC Custom Programs	Projects	0	0			0	0		
Pre-2011 Programs completed in 2011 Total		**0**	**0**			**0**	**0**		
Other									
Program Enabled Savings	Projects	0	0			0	0		
Time-of-Use Savings	Homes	0	0			0	0		
Other Total		**0**	**0**			**0**	**0**		
Adjustments to 2011 Verified Results		**-21**				**-33,914**			
Adjustments to 2012 Verified Results			**5**				**163,068**		
Total Adjustments to Previous Years' Verified Results		**-21**	**5**			**-33,914**	**163,068**		

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).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Gross results are presented for informational purposes only and are not considered official 2013 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		45,971,627	13,424,518	18,616,239	
Appliance Exchange**	Appliances	719	556	2,101		873,531	974,621	3,746,106	
HVAC Incentives	Equipment	53,209	38,346	40,418		99,413,430	66,929,213	71,225,037	
Conservation Instant Coupon Booklet	Items	1,184	231	464		19,192,453	1,325,898	6,842,244	
Bi-Annual Retailer Event	Items	1,504	1,622	1,142		26,899,265	29,222,072	16,441,329	
Retailer Co-op	Items	0	0	0		3,917	0	0	
Residential Demand Response	Devices	10,390	49,038	93,076		23,597	359,408	390,303	
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0	
Residential New Construction	Homes	0	1	29		1,813	4,884	259,826	
Consumer Program Total		**73,757**	**91,805**	**140,380**		**192,379,633**	**112,240,615**	**117,521,084**	
Business Program									
Retrofit	Projects	34,201	78,965	82,896		184,070,265	387,817,248	478,410,896	
Direct Install Lighting	Projects	22,155	20,469	19,807		65,777,197	68,896,046	68,140,249	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	247	1,596	2,934		823,434	3,755,869	9,183,826	
Energy Audit	Audits	0	1,450	4,283		0	7,049,351	23,386,108	
Small Commercial Demand Response	Devices	55	187	773		131	1,068	373	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	21,390	19,389	23,706		633,421	281,823	346,659	
Business Program Total		**78,048**	**122,056**	**134,399**		**251,304,448**	**467,801,406**	**579,468,111**	
Industrial Program									
Process & System Upgrades	Projects	0	0	313		0	0	2,799,746	
Monitoring & Targeting	Projects	0	0	0		0	0	0	
Energy Manager	Projects	0	1,034	3,953		0	7,067,535	24,438,070	
Retrofit	Projects	6,372	0	0		38,412,408	0	0	
Demand Response 3	Facilities	176,180	74,056	162,543		4,243,958	1,784,712	4,309,160	
Industrial Program Total		**182,552**	**75,090**	**166,809**		**42,656,366**	**8,852,247**	**31,546,976**	
Home Assistance Program									
Home Assistance Program	Homes	4	1,777	2,361		56,119	5,524,230	20,987,275	
Home Assistance Program Total		**4**	**1,777**	**2,361**		**56,119**	**5,524,230**	**20,987,275**	
Aboriginal Program									
Home Assistance Program	Homes	0	0	267		0	0	1,609,393	
Direct Install Lighting	Projects	0	0	0		0	0	0	
Aboriginal Program Total		**0**	**0**	**267**		**0**	**0**	**1,609,393**	
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	40,418	0	0		223,956,390	0	0	
High Performance New Construction	Projects	10,197	6,501	772		52,371,183	23,803,888	3,522,240	
Toronto Comprehensive	Projects	33,467	0	0		174,070,574	0	0	
Multifamily Energy Efficiency Rebates	Projects	2,553	0	0		9,774,792	0	0	
LDC Custom Programs	Projects	534	0	0		649,140	0	0	
Pre-2011 Programs completed in 2011 Total		**87,169**	**6,501**	**772**		**460,822,079**	**23,803,888**	**3,522,240**	
Other									
Program Enabled Savings	Projects	0	2,177	3,692		0	525,011	4,075,382	
Time-of-Use Savings	Homes	0	0	0		0	0	0	
Other Total		**0**	**2,177**	**3,692**		**0**	**525,011**	**4,075,382**	
Adjustments to 2011 Verified Results			**13,266**	**645**			**48,705,294**	**1,744,645**	
Adjustments to 2012 Verified Results				**8,707**				**55,101,043**	
Energy Efficiency Total		**213,515**	**156,735**	**168,583**		**942,317,539**	**616,320,385**	**753,683,966**	
Demand Response Total		**208,015**	**142,670**	**280,099**		**4,901,107**	**2,427,011**	**5,046,495**	
Adjustments to Previous Years' Verified Results Total		**0**	**13,266**	**9,352**		**0**	**48,705,294**	**56,845,688**	
OPA-Contracted LDC Portfolio Total (inc. Adjustments)		**421,530**	**312,671**	**458,033**		**947,218,646**	**667,452,690**	**815,576,149**	

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).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above does not consider persistence of savings

Gross results are presented for informational purposes only and are not considered official 2013 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		
Appliance Exchange	Appliances	0	0			0	0		
HVAC Incentives	Equipment	-8,762	1,036			-16,245,279	1,854,833		
Conservation Instant Coupon Booklet	Items	15	0			255,975	0		
Bi-Annual Retailer Event	Items	117	0			2,373,616	0		
Retailer Co-op	Items	0	0			0	0		
Residential Demand Response	Devices	0	0			0	0		
Residential Demand Response (IHD)	Devices	0	0			0	0		
Residential New Construction	Homes	0	0			328,256	0		
Consumer Program Total		**-8,630**	**1,036**			**-13,287,430**	**1,854,833**		
Business Program									
Retrofit	Projects	4,504	6,218			22,046,931	40,101,273		
Direct Install Lighting	Projects	541	217			1,346,618	781,858		
Building Commissioning	Buildings	0	0			0	0		
New Construction	Buildings	3,243	0			11,323,593	0		
Energy Audit	Audits	492	337			2,391,744	1,636,457		
Small Commercial Demand Response	Devices	0	0			0	0		
Small Commercial Demand Response (IHD)	Devices	0	0			0	0		
Demand Response 3	Facilities	0	0			0	0		
Business Program Total		**8,780**	**6,771**			**37,108,886**	**42,519,588**		
Industrial Program									
Process & System Upgrades	Projects	0	0			0	0		
Monitoring & Targeting	Projects	0	0			0	0		
Energy Manager	Projects	0	75			0	799,151		
Retrofit	Projects	0	0			0	0		
Demand Response 3	Facilities	0	0			0	0		
Industrial Program Total		**0**	**75**			**0**	**799,151**		
Home Assistance Program									
Home Assistance Program	Homes	0	0			0	0		
Home Assistance Program Total		**0**	**0**			**0**	**0**		
Aboriginal Program									
Home Assistance Program	Homes	0	0			0	0		
Direct Install Lighting	Projects	0	0			0	0		
Aboriginal Program Total		**0**	**0**			**0**	**0**		
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	266	0			1,049,108	0		
High Performance New Construction	Projects	12,872	0			23,905,663	0		
Toronto Comprehensive	Projects	0	0			0	0		
Multifamily Energy Efficiency Rebates	Projects	0	0			0	0		
LDC Custom Programs	Projects	0	0			0	0		
Pre-2011 Programs completed in 2011 Total		**13,137**	**0**			**24,954,771**	**0**		
Other									
Program Enabled Savings	Projects	624	824			1,673,712	9,927,473		
Time-of-Use Savings	Homes	0	0			0	0		
Other Total		**624**	**824**			**1,673,712**	**9,927,473**		
Adjustments to 2011 Verified Results		**13,911**				**50,449,939**			
Adjustments to 2012 Verified Results			**8,707**				**55,101,043**		
Adjustments to Previous Years' Verified Results Total		**13,911**	**8,707**			**50,449,939**	**55,101,043**		

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).

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

Gross results are presented for informational purposes only and are not considered official 2013 Final Verified Results

Independent Electricity System Operator
Conservation & Demand Management Status Report

Q4 2014 Preliminary Results Update

Ottawa River Power Corporation

Unverified IESO-Contracted Province-Wide CDM Program Progress at a Glance

Unverified Progress to Targets	Incremental Q4-2014	Program-to-Date Progress Towards OEB Target				Rank (of 76)
		Scenario 1		Scenario 2		
		Savings	%	Savings	%	Scenario 2
Net Peak Demand Savings (MW)	**0.0**	**0.8**	51%	**0.8**	51%	**35**
Net Energy Savings (GWh)	**0.2**	**8.2**	91%	**8.2**	91%	**44**

Program-to-Date Progress Towards Target: Combination of verified (2011-13) and unverified (2014) results. The 2014 Q4 report reflects the most up-to-date inputs from the 2013 program evaluations. To align with savings counted towards OEB targets, peak demand is represented by annual savings in 2014 and energy is represented by the cumulative savings from 2011-2014.

Scenario 1: Assumes that demand response resources have a persistence of 1 year. Official reporting policy for demand response resources.

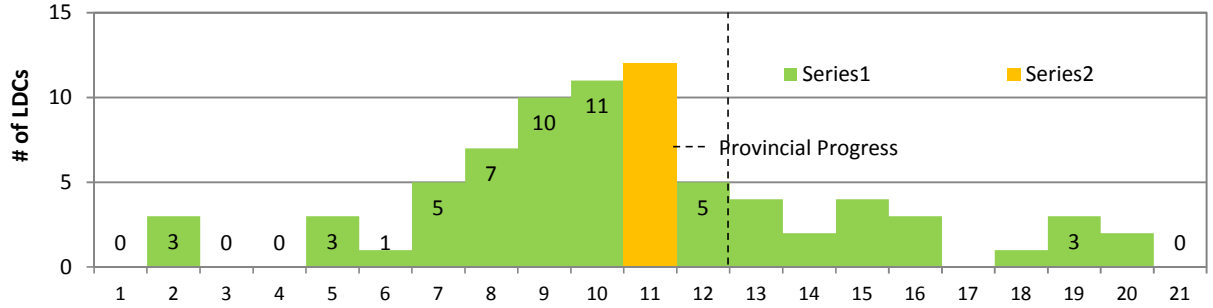
Scenario 2: Assumes that demand response resources remain in the LDC territory until 2014. Used to better assess progress towards demand targets.

Rank: Sorts each LDC by % of peak demand or energy target achieved as of the current reporting period using Scenario 2.

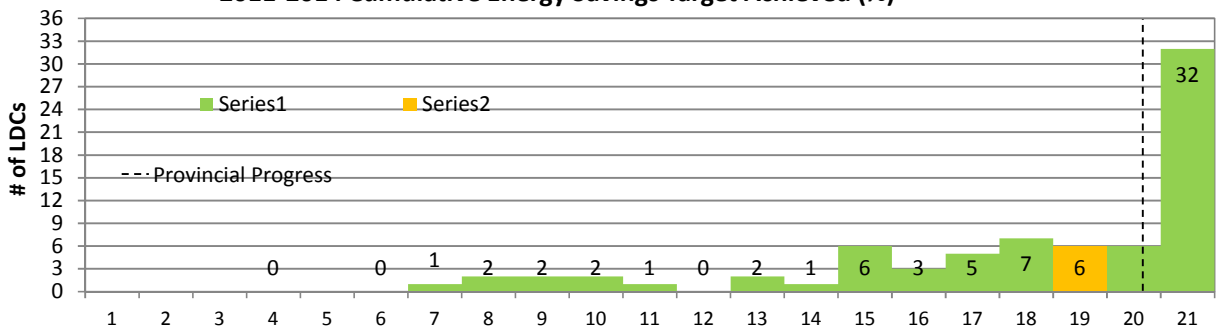
Comparison: LDC Achievement vs. LDC Community Achievement

The following graphs assume that demand response resources remain in the LDC territory until 2014 (aligns with Scenario 2)

2014 Annual Peak Demand Savings Target Achieved (%)



2011-2014 Cumulative Energy Savings Target Achieved (%)



Questions? Please check the "About this Report" Section on page 2, Table 5 on page 9 and "Reporting Methodology" on page 10.
More Questions? Please contact LDC.Support@ieso.ca

Message from the Vice President

As we have reached the end of the 2011-2014 Conservation Framework, I'm pleased to present to you the Q4 2014 LDC status update. This quarter, we have achieved 98% (5,882 GWh) of the full OEB energy savings target. Peak demand savings increased to 798 MW, representing 60% of the 1,330 MW peak demand target.

Projects completed prior to December 31, 2014 will count towards your 2011-2014 CDM Targets and we encourage LDCs to submit these projects to the IESO prior to the initiative specific cut-off date. Please refer to the 2014 Final Results Reporting LDC.Support E-blast issued on March 3rd, 2015 for additional details.

Highlights from Q4 2014:

- LDCs achieved 334 MW peak demand and 186 GWh in incremental energy savings in Q4 2014.
- Bi-Annual COUPONS contributed over 100 GWh with 83% of energy savings coming from LEDs.
- RETROFIT participation in Q4 2014 increased by 25% over Q4 2013 contributing about 60 GWh in savings of Q4 2014
- Program enhancements, such as a new exterior lighting worksheet in RETROFIT and an increased cost cap in HOME ASSISTANCE are continuing to improve user experience.

We remain well positioned for continued success in the Conservation First Framework 2015-2020. Signed ECAs have been received from all LDCs and the IESO is in the process of reviewing and approving CDM Plans. As of March 31st, 2015 3 CDM Plans have been recieived and 2 have been approved. We look forward to continued successful collaboration to achieve and exceed our goals.

Please contact the IESO at LDC.Support@ieso.ca with any questions or comments regarding this report.

Sincerely,

Terry Young

About this Report

This report contains:

- Peak demand and energy savings for IESO-Contracted Province-Wide programs (does not include Ontario Energy Board (OEB) approved CDM programs or other LDC conservation efforts)
- Progress as of the end of Q4 2014 using unverified quarterly results for 2014 and final verified results for 2011-2013
- Program activity data (i.e. projects completed, appliances picked up) completed on or before December 31st, 2014 and received and entered to the IESO processing systems per the dates specified in Table 5
- Updates to the previous quarters' participation with additional data received
- Information to assist the LDC in reconciling internal data sources with the data contained in this report. Table 5 contains:
  1. The date in which savings are considered to 'start';
  2. The point at which the data becomes available to the IESO;
  3. The expected probability and magnitude of updates to the data as more information becomes available.
- iCON CRM Post Stage Retrofit Report data queried on January 6th, 2015
- Preliminary results for peaksaverPLUS® represent customers that have signed a Participant Agreement and have successfully uploaded information to the RDR settlement system
- ***peaksaverPLUS® device counts and corresponding savings for load control (switch/thermostat) and IHD are reported separately***

2011-2014 Summary: Net Peak Demand Savings Achieved (MW)

This section provides a portfolio level view of net peak demand savings procured to date through LDC programs.
Table 1 presents:

- Net peak demand savings results from 2011 to 2014 listed by implementation period, status (i.e. final or reported) and summarized by resource type (i.e. energy efficiency or demand response)
- Net annual peak demand savings that are expected to persist from program activity completed as of Q4 2014 using both Scenarios 1 and 2
- A comparison between reported, unverified results and final, verified results
- Energy efficiency resources reported with persistence according to the effective useful life of the technology

Figure 1 presents:

- Net peak demand savings results from 2011 to date using Scenario 1 for demand response resources (persistence of 1 year)

Please note: Demand response resources are only presented in the final quarter of each year and the current reporting quarter (i.e. Q4 2011, Q4 2012, Q4 2013 and Q4 2014). Figures below and tables 3B and 4B present demand response in each quarter to display any changes that may have occurred quarter over quarter.

Table 1A: Net Peak Demand Savings at the End-User Level (MW)

#	Implementation Period	Annual (MW)				
		Scenario 1				Scenario 2
		2011	2012	2013	2014	2014
1	2011 - Final	0.2	0.2	0.2	0.2	0.2
2	2012 - Final†	0.0	0.2	0.2	0.2	0.2
3	2013 - Final†	0.0	0.0	0.2	0.2	0.2
4	2014 - Reported - Quarter 1				0.0	0.0
5	2014 - Reported - Quarter 2				0.2	0.2
6	2014 - Reported - Quarter 3				0.1	0.1
4	2014 - Reported - Quarter 4				0.0	0.0
Energy Efficiency		0.2	0.4	0.6	0.8	0.8
Demand Response		0.0	0.0	0.0	0.0	0.0
Net Annual Peak Demand Savings		0.2	0.4	0.6	0.8	0.8
Unverified Net Annual Peak Demand Savings in 2014:					**0.8**	**0.8**
2014 Annual Peak Demand Savings Target as per OEB:					**1.6**	**1.6**
Unverified 2014 Peak Demand Savings Target Achieved (%):					**51%**	**51%**
Incremental Reported (Unverified)		0.1	0.3	0.2	0.3	
Incremental Final (Verified)		0.2	0.2	0.2	n/a	

Decline in savings due to demand response persistence assumption (scenario 1) and energy efficiency persistence decline

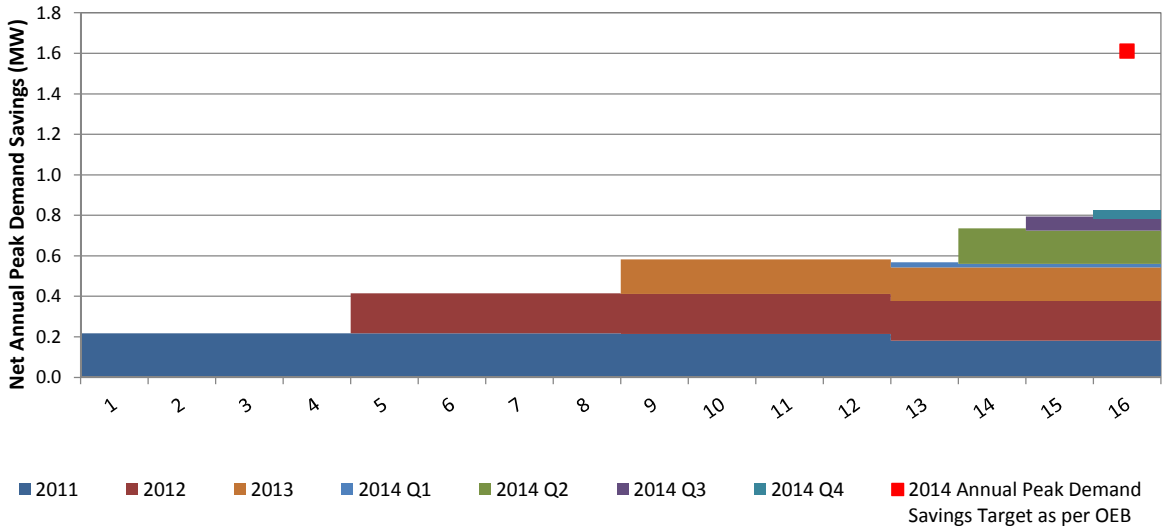
† Includes adjustments to previous year's verified results

Sums may not be exact due to rounding

Table 1B: Peak Demand Savings from DR3 Resources

Reported DR3 (Ex Ante) (MW)	0.0
Contracted DR3 (MW)	0.0

Figure 1: Net Peak Demand Savings (MW)



2011-2014 Summary: Net Energy Savings Achieved (GWh)

This section provides a portfolio level view of net energy savings procured to date through LDC programs.

Table 2 presents net annual energy savings results from 2011 to date listed by implementation period, status (i.e. final or reported) and summarized by resource type. This table presents 2011-2014 net cumulative energy savings expected in 2014 from program activity completed to date. At the bottom of the table a comparison is made between reported results (unverified) and final results (verified) for 2011, 2012, and 2013.

Table 2: Net Energy Savings at the End-User Level (GWh)

#	Implementation Period	Annual (GWh)				Cumulative (GWh)
		2011	2012	2013	2014	2011-2014
1	2011 - Final	0.8	0.8	0.8	0.7	3.1
2	2012 - Final†	0.0	0.8	0.8	0.8	2.3
3	2013 - Final†	0.0	0.1	0.7	0.7	1.6
4	2014 - Reported - Quarter 1				0.1	0.1
5	2014 - Reported - Quarter 2				0.7	0.7
6	2014 - Reported - Quarter 3				0.2	0.2
7	2014 - Reported - Quarter 4				0.2	0.2
Energy Efficiency		0.8	1.7	2.3	3.4	8.2
Demand Response		0.0	0.0	0.0	0.0	0.0
Net Energy Savings		0.8	1.7	2.3	3.4	8.2
					Unverified Net Cumulative Energy Savings 2011-2014:	**8.2**
					2011-2014 Cumulative Energy Savings Target as per OEB:	**9.0**
					Unverified 2011-2014 Cumulative Energy Target Achieved (%):	**91%**
Incremental Reported (Unverified)		0.5	0.9	0.7	1.2	
Incremental Final (Verified)		0.8	0.8	0.7	n/a	

† Includes adjustments to previous year's verified results

Sums may not be exact due to rounding

Figure 2: Net Cumulative Energy Savings (GWh)

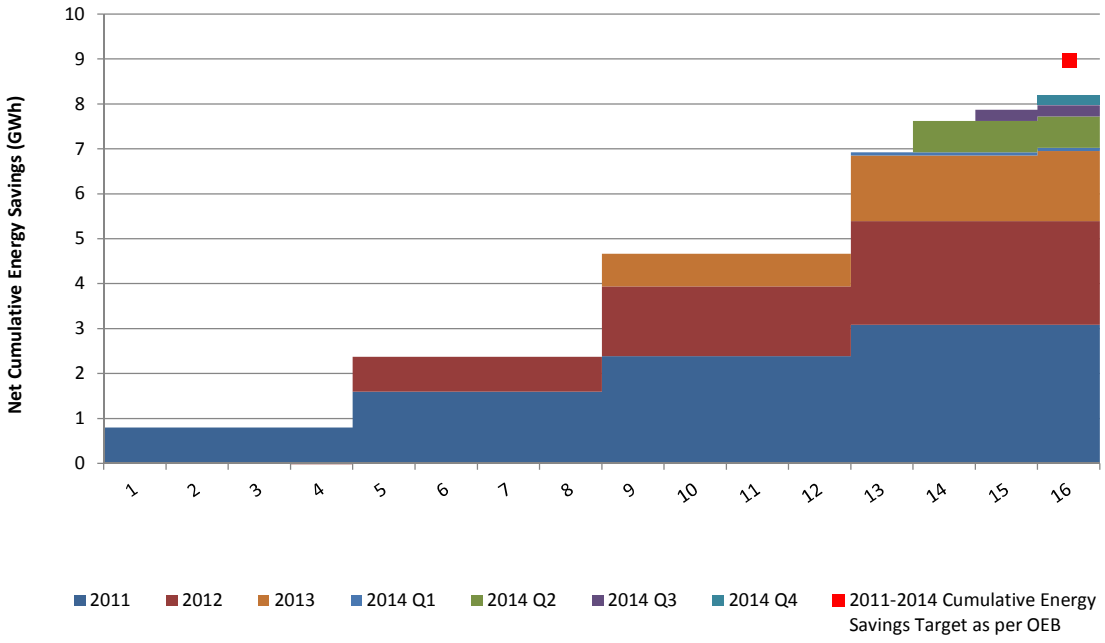


Table 3A: Ottawa River Power Corporation Initiative and Program Level Savings by Year

#	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 Unverified Progress to Target (excludes DR)	
															2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
			2011 Adj.*	2012 Adj.*	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program																
1	Appliance Retirement	Appliances	92	146	64	59	6	8	4	4	39,179	56,155	26,275	25,009	22	402,539
2	Appliance Exchange	Appliances	16	5	11	6	2	1	2	1	1,896	1,251	4,064	2,082	5	20,558
3	HVAC Incentives	Equipment	104	103	103	116	49	24	25	30	96,849	44,321	45,706	54,663	128	666,432
4	Conservation Instant Coupon Booklet	Measures	1,014	61	685	1,001	2	0	1	2	38,330	2,760	15,216	23,641	5	215,675
5	Bi-Annual Retailer Event	Measures	1,880	2,094	1,865	9,573	3	3	2	13	58,017	52,873	33,917	197,653	21	656,174
6	Retailer Co-op	Items	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Residential Demand Response (switch/pstat)†	Devices	-	-	14	25	-	-	6	11	-	-	-	-	11	-
8	Residential Demand Response (IHD)†	Devices	-	-	13	20	-	-	-	-	-	-	-	-	-	-
9	Residential New Construction	Homes	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Consumer Program Total							**62**	**37**	**40**	**60**	**234,271**	**157,360**	**125,178**	**303,047**	**192**	**1,961,379**
Business Program																
10	Retrofit	Projects	6	18	20	19	41	60	38	122	264,382	211,874	180,759	555,748	260	2,610,123
11	Direct Install Lighting	Projects	113	122	102	87	110	112	91	100	283,517	422,290	320,746	370,025	378	3,304,728
12	Building Commissioning	Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	New Construction	Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Energy Audit	Audits	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Small Commercial Demand Response (switch/pstat)†	Devices	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Small Commercial Demand Response (IHD)†	Devices	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Demand Response 3†	Facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Business Program Total							**151**	**172**	**128**	**223**	**547,899**	**634,164**	**501,504**	**925,772**	**638**	**5,914,851**
Industrial Program																
18	Process & System Upgrades	Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Monitoring & Targeting	Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Energy Manager	Projects	-	-	-	1	-	-	-	0	-	-	-	9,072	0	9,072
21	Retrofit	Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Demand Response 3†	Facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Program Total							**-**	**-**	**-**	**-**	**-**	**-**	**-**	**9,072**	**0**	**9,072**
Home Assistance Program																
23	Home Assistance Program	Homes	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Home Assistance Program Total							**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Aboriginal Program																
24	Aboriginal Program	Homes	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aboriginal Program Total							**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Pre-2011 Programs completed in 2011																
25	Electricity Retrofit Incentive Program	Projects	2	-	-	-	4	-	-	-	15,726	-	-	-	4	62,903
26	High Performance New Construction	Projects	0	0	-	-	0	0	-	-	490	216	-	-	0	2,607
27	Toronto Comprehensive	Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Multifamily Energy Efficiency Rebates	Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	LDC Custom Programs	Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pre-2011 Programs completed in 2011 Total							**4**	**0**	**-**	**-**	**16,215**	**216**	**-**	**-**	**4**	**65,510**
Other																
30	Program Enabled Savings	Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Time-of-Use Savings	Homes	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Total							**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Adjustment to Previous Year's Verified Results							**-**	**(11)**	**3**	**-**	**-**	**(15,574)**	**101,352**	**-**	**(9)**	**239,567**
Energy Efficiency Total							**217**	**209**	**163**	**272**	**798,386**	**791,740**	**626,683**	**1,237,891**	**824**	**7,950,811**
Demand Response Total (Scenario 1)							**-**	**-**	**6**	**11**	**-**	**-**	**-**	**-**	**11**	**-**
IESO-Contracted LDC Portfolio Total							**217**	**198**	**172**	**283**	**798,386**	**776,166**	**728,034**	**1,237,891**	**825**	**8,190,378**
														Full OEB Target:	**1,610**	**8,970,000**
														% of Full OEB Target Achieved to Date (Scenario 1):	**51%**	**91%**

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

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

*Includes adjustments after Final Reports were issued

Table 3B: Ottawa River Power Corporation Initiative and Program Level Savings by Quarter for current reporting year**

#	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)			
			Q1 2014	Q2 2014	Q3 2014	Q4 2014	Q1 2014	Q2 2014	Q3 2014	Q4 2014	Q1 2014	Q2 2014	Q3 2014	Q4 2014
Consumer Program														
1	Appliance Retirement	Appliances	10	14	21	14	1	1	1	1	4,018	6,096	8,857	6,037
2	Appliance Exchange	Appliances	-	-	-	6	-	-	-	1	-	-	-	2,082
3	HVAC Incentives	Equipment	35	30	32	18	11	6	8	6	20,042	9,551	13,815	11,255
4	Conservation Instant Coupon Booklet	Measures	137	264	361	239	0	0	1	0	2,759	6,330	8,842	5,709
5	Bi-Annual Retailer Event	Measures	7	2,633	61	6,872	0	3	0	9	155	52,605	1,215	143,678
6	Retailer Co-op	Items	-	-	-	-	-	-	-	-	-	-	-	-
7	Residential Demand Resoonse (switch/pstat)†	Devices	21	25	25	25	9	11	11	11	-	-	-	-
8	Residential Demand Response (IHD)†	Devices	19	20	20	20	-	-	-	-	-	-	-	-
9	Residential New Construction	Homes	-	-	-	-	-	-	-	-	-	-	-	-
Consumer Program Total							**20**	**22**	**21**	**28**	**26,974**	**74,582**	**32,730**	**168,761**
Business Program														
10	Retrofit	Projects	1	9	3	6	-	101	15	6	26,305	427,172	78,334	23,936
11	Direct Install Lighting	Projects	6	43	31	7	5	53	34	7	17,643	198,938	126,549	26,895
12	Building Commissioning	Buildings	-	-	-	-	-	-	-	-	-	-	-	-
13	New Construction	Buildings	-	-	-	-	-	-	-	-	-	-	-	-
14	Energy Audit	Audits	-	-	-	-	-	-	-	-	-	-	-	-
15	Small Commercial Demand Response (switch/pstat)†	Devices	-	-	-	-	-	-	-	-	-	-	-	-
16	Small Commercial Demand Response (IHD)†	Devices	-	-	-	-	-	-	-	-	-	-	-	-
17	Demand Response 3†	Facilities	-	-	-	-	-	-	-	-	-	-	-	-
Business Program Total							**5**	**155**	**49**	**14**	**43,948**	**626,110**	**204,883**	**50,831**
Industrial Program														
18	Process & System Upgrades	Projects	-	-	-	-	-	-	-	-	-	-	-	-
19	Monitoring & Targeting	Projects	-	-	-	-	-	-	-	-	-	-	-	-
20	Energy Manager	Projects	-	-	1	-	-	-	0	-	-	-	9,072	-
21	Retrofit	Projects	-	-	-	-	-	-	-	-	-	-	-	-
22	Demand Response 3†	Facilities	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Program Total							-	-	-	-	-	-	**9,072**	-
Home Assistance Program														
23	Home Assistance Program	Homes	-	-	-	-	-	-	-	-	-	-	-	-
Home Assistance Program Total							-	-	-	-	-	-	-	-
Aboriginal Program														
24	Aboriginal Program	Homes	-	-	-	-	-	-	-	-	-	-	-	-
Aboriginal Program Total							-	-	-	-	-	-	-	-
Pre-2011 Programs completed in 2011														
25	Electricity Retrofit Incentive Program	Projects	-	-	-	-	-	-	-	-	-	-	-	-
26	High Performance New Construction	Projects	-	-	-	-	-	-	-	-	-	-	-	-
27	Toronto Comprehensive	Projects	-	-	-	-	-	-	-	-	-	-	-	-
28	Multifamily Energy Efficiency Rebates	Projects	-	-	-	-	-	-	-	-	-	-	-	-
29	LDC Custom Programs	Projects	-	-	-	-	-	-	-	-	-	-	-	-
Pre-2011 Programs completed in 2011 Total							-	-	-	-	-	-	-	-
Other														
30	Program Enabled Savings	Projects	-	-	-	-	-	-	-	-	-	-	-	-
31	Time-of-Use Savings	Homes	-	-	-	-	-	-	-	-	-	-	-	-
Other Total							-	-	-	-	-	-	-	-
Adjustment to Previous Year's Verified Results														
Energy Efficiency Total							**17**	**165**	**59**	**31**	**70,922**	**700,692**	**246,686**	**219,592**
Demand Response Total (Scenario 1)							**9**	**11**	**11**	**11**	-	-	-	-
IESO-Contracted LDC Portfolio Total							**25**	**177**	**70**	**42**	**70,922**	**700,692**	**246,685**	**219,592**

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

Updates to the previous quarter's participation may occur as a result of further data received

Table 4A: Province-Wide Initiative and Program Level 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 Unverified Progress to Target	
			2011 Adj.*	2012 Adj.*	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																
1	Appliance Retirement	Appliances	56,110	34,146	20,952	22,365	3,299	2,011	1,433	1,547	23,005,812	13,424,518	8,713,107	9,245,202	8,151	158,848,273
2	Appliance Exchange	Appliances	3,688	3,836	5,337	3,685	371	556	1,106	764	450,187	974,621	1,971,701	1,361,386	2,559	9,817,312
3	HVAC Incentives	Equipment	92,743	87,427	91,581	92,618	32,037	19,060	19,552	20,853	59,437,670	32,841,283	33,923,592	36,056,671	91,502	440,178,385
4	Conservation Instant Coupon Booklet	Measures	567,678	30,891	346,896	662,997	1,344	230	517	994	21,211,537	1,398,202	7,707,573	15,299,793	3,085	119,755,693
5	Bi-Annual Retailer Event	Measures	952,149	1,060,901	944,772	4,849,164	1,681	1,480	1,184	6,372	29,387,468	26,781,674	17,179,841	100,117,270	10,717	332,371,849
6	Retailer Co-op	Items	152	-	-	-	0	-	-	-	2,652	-	-	-	0	10,607
7	Residential Demand Response (switch/pstat)†	Devices	19,550	98,388	171,733	213,493	10,947	49,038	93,076	115,509	24,870	359,408	390,303	-	115,509	774,582
8	Residential Demand Response (IHD)†	Devices	-	49,689	133,657	178,086	-	-	-	-	-	-	-	-	-	-
9	Residential New Construction	Homes	26	19	86	1,795	0	2	18	454	743	17,152	163,690	8,173,646	474	8,555,457
Consumer Program Total							**49,681**	**72,377**	**116,886**	**146,492**	**133,520,941**	**75,796,859**	**70,049,807**	**170,253,968**	**231,998**	**1,070,312,157**
Business Program																
10	Retrofit	Projects	2,819	6,134	8,785	8,797	24,467	61,147	59,678	58,377	136,002,258	314,922,468	345,346,008	351,079,954	201,208	2,519,577,657
11	Direct Install Lighting	Projects	20,741	18,691	17,782	23,120	23,724	15,284	18,708	23,827	61,076,701	57,345,798	64,315,558	83,720,596	73,713	603,413,953
12	Building Commissioning	Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	New Construction	Buildings	22	69	87	122	123	764	1,584	1,533	411,717	1,814,721	4,959,266	6,001,243	4,005	23,010,807
14	Energy Audit	Audits	198	345	319	284	-	1,450	2,811	981	-	7,049,351	15,455,795	4,567,059	5,242	56,626,703
15	Small Commercial Demand Response (switch/pstat)†	Devices	132	294	1,211	2,688	84	187	773	1,709	157	1,068	373	-	1,709	1,597
16	Small Commercial Demand Response (IHD)†	Devices	-	-	378	658	-	-	-	-	-	-	-	-	-	-
17	Demand Response 3†	Facilities	145	151	175	180	16,218	19,389	23,706	22,822	633,421	281,823	346,659	-	22,822	1,261,903
Business Program Total							**64,617**	**98,221**	**107,261**	**109,249**	**198,124,253**	**381,415,230**	**430,423,659**	**445,368,853**	**308,698**	**3,203,892,619**
Industrial Program																
18	Process & System Upgrades	Projects	-	-	3	7	-	-	294	12,384	-	-	2,603,764	89,544,578	12,678	94,752,105
19	Monitoring & Targeting	Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Energy Manager	Projects	-	42	205	236	-	1,086	3,558	2,771	-	7,372,108	21,994,263	21,713,663	5,964	76,602,233
21	Retrofit	Projects	433	-	-	-	4,615	-	-	-	28,866,840	-	-	-	4,613	115,462,282
22	Demand Response 3†	Facilities	124	185	281	336	52,484	74,056	162,543	165,646	3,080,737	1,784,712	4,309,160	-	165,646	9,174,609
Industrial Program Total							**57,098**	**75,141**	**166,395**	**180,800**	**31,947,577**	**9,156,820**	**28,907,187**	**111,258,240**	**188,901**	**295,991,229**
Home Assistance Program																
23	Home Assistance Program	Homes	46	5,033	26,756	15,799	2	566	2,361	1,426	39,283	5,442,232	20,987,275	12,529,701	4,329	70,479,614
Home Assistance Program Total							**2**	**566**	**2,361**	**1,426**	**39,283**	**5,442,232**	**20,987,275**	**12,529,701**	**4,329**	**70,479,614**
Aboriginal Program																
24	Aboriginal Program	Homes	-	-	584	943	-	-	267	561	-	-	1,609,393	3,612,886	828	6,831,672
Aboriginal Program Total							**-**	**-**	**267**	**561**	**-**	**-**	**1,609,393**	**3,612,886**	**828**	**6,831,672**
Pre-2011 Programs completed in 2011																
24	Electricity Retrofit Incentive Program	Projects	2,028	-	-	-	21,662	-	-	-	121,138,219	-	-	-	21,662	484,552,876
25	High Performance New Construction	Projects	179	69	4	-	5,098	3,251	772	-	26,185,591	11,901,944	3,522,240	-	9,121	147,492,677
26	Toronto Comprehensive	Projects	577	-	-	-	15,805	-	-	-	86,964,886	-	-	-	15,805	347,859,545
27	Multifamily Energy Efficiency Rebates	Projects	110	-	-	-	1,981	-	-	-	7,595,683	-	-	-	1,981	30,382,733
28	LDC Custom Programs	Projects	8	-	-	-	399	-	-	-	1,367,170	-	-	-	399	5,468,679
Pre-2011 Programs completed in 2011 Total							**44,945**	**3,251**	**772**	**-**	**243,251,550**	**11,901,944**	**3,522,240**	**-**	**48,967**	**1,015,756,510**
Other																
29	Program Enabled Savings	Projects	14	56	13	-	-	2,304	3,692	-	-	1,188,362	4,075,382	-	5,996	11,715,850
30	Time-of-Use Savings	Homes	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Total							**-**	**2,304**	**3,692**	**-**	**-**	**1,188,362**	**4,075,382**		**5,996**	**11,715,850**
Adjustment to Previous Year's Verified Results							**-**	**1,406**	**6,901**	**-**	**-**	**18,689,081**	**43,684,221**	**-**	**7,976**	**207,151,978**
Energy Efficiency Total							**136,610**	**109,191**	**117,536**	**132,842**	**603,144,419**	**482,474,435**	**554,528,447**	**743,023,649**	**484,033**	**5,663,766,960**
Demand Response Total (Scenario 1)							**79,733**	**142,670**	**280,099**	**305,685**	**3,739,185**	**2,427,011**	**5,046,495**	**-**	**305,685**	**11,212,691**
IESO-Contracted LDC Portfolio Total							**216,343**	**253,267**	**404,536**	**438,528**	**606,883,604**	**503,590,526**	**603,259,163**	**743,023,649**	**797,694**	**5,882,131,629**

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

The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.

*Includes adjustments after Final Reports were issued

Full OEB Target:	**1,330,000**	**6,000,000,000**
% of Full OEB Target Achieved to Date (Scenario 1):	**60%**	**98%**

Table 4B: Province-Wide Initiative and Program Level Savings by Quarter for Current Reporting Year**

#	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)			
			Q1 2014	Q2 2014	Q3 2014	Q4 2014	Q1 2014	Q2 2014	Q3 2014	Q4 2014	Q1 2014	Q2 2014	Q3 2014	Q4 2014
Consumer Program														
1	Appliance Retirement	Appliances	2,436	5,229	7,449	7,251	161	367	523	496	1,024,177	2,149,010	3,057,830	3,014,185
2	Appliance Exchange	Appliances	-	-	-	3,685	-	-	-	764	-	-	-	1,361,386
3	HVAC Incentives	Equipment	19,792	35,336	26,919	10,570	5,327	6,827	5,903	2,795	9,844,276	10,987,207	10,097,536	5,127,652
4	Conservation Instant Coupon Booklet	Measures	90,864	174,551	239,287	158,297	113	270	375	235	1,785,297	4,096,950	5,722,646	3,694,901
5	Bi-Annual Retailer Event	Measures	3,636	1,333,884	30,738	3,480,907	5	1,745	43	4,579	78,601	26,646,044	615,602	72,777,023
6	Retailer Co-op	Items	-	-	-	-	-	-	-	-	-	-	-	-
7	Residential Demand Resoonse (switch/pstat)†	Devices	188,190	198,381	208,755	213,493	101,915	107,360	112,955	115,509	-	-	-	-
8	Residential Demand Response (IHD)†	Devices	152,019	162,554	173,365	178,086	-	-	-	-	-	-	-	-
9	Residential New Construction	Homes	27	305	246	1,217	3	22	4	425	35,350	654,323	467,843	7,016,129
Consumer Program Total							**107,524**	**116,591**	**119,803**	**124,803**	**12,767,702**	**44,533,534**	**19,961,456**	**92,991,276**
Business Program														
10	Retrofit	Projects	2,113	2,472	2,642	1,570	14,633	15,813	16,715	11,216	100,924,922	95,019,369	95,854,171	59,281,492
11	Direct Install Lighting	Projects	5,473	6,147	5,661	5,839	5,961	6,424	5,587	5,855	20,848,414	22,541,443	19,681,481	20,649,259
12	Building Commissioning	Buildings	-	-	-	-	-	-	-	-	-	-	-	-
13	New Construction	Buildings	33	56	24	9	507	481	298	247	1,975,271	1,902,760	1,019,494	1,103,718
14	Energy Audit	Audits	86	83	94	21	297	287	325	73	1,382,983	1,334,739	1,511,632	337,705
15	Small Commercial Demand Response (switch/pstat)†	Devices	1,289	1,488	2,008	2,688	820	946	1,274	1,709	-	-	-	-
16	Small Commercial Demand Response (IHD)†	Devices	429	479	580	658	-	-	-	-	-	-	-	-
17	Demand Response 3†	Facilities	179	178	178	180	25,609	25,387	24,037	22,822	-	-	-	-
Business Program Total							**47,826**	**49,337**	**48,236**	**41,921**	**125,131,590**	**120,798,312**	**118,066,778**	**81,372,173**
Industrial Program														
18	Process & System Upgrades	Projects	2	2	2	1	237	3,778	7,501	868	2,092,778	31,209,000	48,692,800	7,550,000
19	Monitoring & Targeting	Projects	-	-	-	-	-	-	-	-	-	-	-	-
20	Energy Manager	Projects	50	86	86	14	610	1,396	579	185	4,504,954	9,693,954	5,188,171	2,326,584
21	Retrofit	Projects	-	-	-	-	-	-	-	-	-	-	-	-
22	Demand Response 3†	Facilities	301	324	335	336	167,962	171,552	177,630	165,646	-	-	-	-
Industrial Program Total							**168,809**	**176,726**	**185,710**	**166,699**	**6,597,732**	**40,902,954**	**53,880,971**	**9,876,584**
Home Assistance Program														
23	Home Assistance Program	Homes	5,859	4,365	3,326	2,249	591	485	222	128	4,737,618	4,058,973	2,329,163	1,403,947
Home Assistance Program Total			-				**591**	**485**	**222**	**128**	**4,737,618**	**4,058,973**	**2,329,163**	**1,403,947**
Aboriginal Program														
24	Aboriginal Program	Homes	64	161	479	239	102	75	291	92	308,516	673,102	1,869,579	761,689
Aboriginal Program Total							**102**	**75**	**291**	**92**	**308,516**	**673,102**	**1,869,579**	**761,689**
Pre-2011 Programs completed in 2011														
24	Electricity Retrofit Incentive Program	Projects	-	-	-	-	-	-	-	-	-	-	-	-
25	High Performance New Construction	Projects	-	-	-	-	-	-	-	-	-	-	-	-
26	Toronto Comprehensive	Projects	-	-	-	-	-	-	-	-	-	-	-	-
27	Multifamily Energy Efficiency Rebates	Projects	-	-	-	-	-	-	-	-	-	-	-	-
28	LDC Custom Programs	Projects	-	-	-	-	-	-	-	-	-	-	-	-
Pre-2011 Programs completed in 2011 Total			-				**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Other														
29	Program Enabled Savings	Projects	-	-	-	-	-	-	-	-	-	-	-	-
30	Time-of-Use Savings	Homes	-	-	-	-	-	-	-	-	-	-	-	-
Other Total							**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Adjustment to Previous Year's Verified Results														
Energy Efficiency Total							**28,547**	**37,970**	**38,367**	**27,958**	**149,543,157**	**210,966,874**	**196,107,948**	**186,405,670**
Demand Response Total (Scenario 1)							**296,305**	**305,245**	**315,896**	**305,685**	**-**	**-**	**-**	**-**
IESO-Contracted LDC Portfolio Total							**324,852**	**343,215**	**354,262**	**333,644**	**149,543,157**	**210,966,874**	**196,107,948**	**186,405,670**

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

Updates to the previous quarter's participation may occur as a result of additional data received

Table 5: Data Qualifiers for Initiatives Currently In-Market & Likelihood of Additional Data

Data included in the Q4 2014 report includes all program activity completed (as per the savings 'start' date) on or before December 31st, 2014.

Initiative	Savings 'start' Date	Data Available	Additional Data Likely
Consumer Program			
Appliance Retirement	Pick-up date	When database is queried. Up to date information is available.	Moderate
Appliance Exchange	Exchange event date	Once data is submitted to the IESO by retailers and undergoes QA/QC by IESO staff. Typically 3 - 6 months to receive and process all data.	High
HVAC Incentives	Installation date	Rebate Status = Approved, Cheque Issued and Cheque Cashed; Typically 1 - 4 months delay.	High
Conservation Instant Coupon Booklet	Coupon redemption year	Once data is submitted to the IESO by retailers and undergoes QA/QC by IESO staff. Typically 3 - 6 months to receive and process all data.	High
Bi-Annual Retailer Event	Year and quarter of the event		High
Retailer co-op activities	Will vary by specific project	Will vary by specific project	Low
Residential Demand Response	Device installation date	Data uploaded to RDR settlement system as of December 31, 2014	High
Residential New Construction	Project completion	Preliminary Billing Report submitted to IESO	Low
Business (Commercial & Institutional) Program			
Retrofit	Actual project completion date	In the "Post Project Submission" Stage (excluding "Payment Denied by LDC", "Returned for Edit(s) by Participant" and "Participant Incentive Not Approved by LDC") within iCON CRM as of December 31st, 2014	Low
Direct Installed Lighting	Retrofit date	Work-order: invoiced, approved and paid to LDC. Typically 1.5 - 2 months delay. Any projects that are flagged as duplicates will not appear in reports until duplicates have been resolved.	High
Building Commissioning	Hand off date	Preliminary Billing Report submitted to IESO and reviewed	Moderate
New Construction	Actual project completion date	Preliminary Billing Report submitted to IESO and reviewed	Moderate
Energy Audit	Audit completion date	Preliminary Billing Report submitted to IESO and reviewed	Moderate
Small Commercial Demand Response	Device installation date	Data uploaded to RDR settlement system as of December 31st, 2014	Moderate
Demand Response 3	Facility is available under contract	Facility available under contract with aggregator	Low
Industrial Program			
Process & System Upgrades	In-service date	Preliminary Billing Report submitted to IESO and reviewed	Low
Monitoring & Targeting	Project completion date	Preliminary Billing Report submitted to IESO and reviewed	Low
Energy Manager (EEM or REM)	Project completion date	Completed, non-incented projects submitted quarterly by Energy Manager.	High
Retrofit	All Retrofit projects are now reported under the Business Program		
Demand Response 3	Facility is available under contract	Facility available under contract with aggregator.	Low
Home Assistance Program			
Home Assistance Program	Project completion date	Preliminary Billing Report submitted to IESO and reviewed	High
Pre-2011 Projects Completed in 2011			
High Performance New Construction	Project completion date	Reviewed and processed from delivery agent, quarterly	Moderate

Reporting Glossary

Annual: the peak demand or energy savings that occur in a given year (includes resource savings from new program activity in a given year and resource savings persisting from previous years). Annual savings for Demand Response resources represent the savings from all active facilities contracted since January 1, 2011.

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.

Current Reporting Period: the calendar quarter specified on page 1 of this report.

Effective Useful Life: determines the persistence of savings for a given technology or initiative. Factors that may effect the useful life of a technology are typical use and operating hours, upcoming code changes, etc. Demand response resources are assumed to have a persistence of 1 year.

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). All savings presented in this report are at the end-user level.

Final or Verified Savings: savings achieved that have undergone annual Evaluation, Measurement & Verification (EM&V) and thus have had activity audited and savings assumptions measured and verified.

Implementation Period: the particular calendar quarter or calendar year that conservation activity is achieved based on when the savings are considered to 'start' (please see table 5).

Incremental: the new resource savings attributable to activity procured in a particular reporting period based on when the savings are considered to 'start' (please see table 5). Incremental savings for Demand Response resources represent the savings from all active facilities contracted since January 1, 2011 (i.e. Incremental = Annual for demand response only).

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

Net Energy Savings (MWh): energy savings attributable to conservation and demand management activities net of free-riders, etc. Please refer to the webinars in the "Reporting Methodology" section for more information.

Net Peak Demand Savings (MW): peak demand savings attributable to conservation and demand management activities net of free-riders, etc. Please refer to the webinars in the "Reporting Methodology" section for more information.

Program-to-Date: the reporting period from January 1, 2011 until the end of the Current Reporting Period.

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

Reported or Unverified Savings: savings achieved that are based on reported activity and forecasted or best available savings assumptions. These savings are not verified, i.e. have not undergone the Evaluation, Measurement & Verification processes.

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

Reporting Methodology (Quarterly, Unverified results):

There are several resources on reporting that are available to LDCs:

- Reporting Policy & FAQ Document found on the iCON Portal in the "Other Program Materials" under "Reporting Tools"
- LDC Consumer Program Tracking Tool found on the iCON Portal in "Other Program Materials" under "Reporting Tools"
- Webinars (available at the following link: http://www.snwebcastcenter.com/custom_events/opa-20111781/site/index.php)

Ottawa River Power 2010-2014 OPA results