



Ontario Power Authority Q4 2011 Conservation & Demand Management Status Report

January 1, 2011 to December 31, 2011

Welland Hydro-Electric System Corp.

2011 At a Glance

The following tables show progress to OEB targets first: following the OPA reporting practice of 1 year persistence for demand response and second: assuming demand response remains in your territory until 2014 .

Unverified 2014 Peak Demand Savings Target Achieved (%):	5.6%
Unverified 2011-2014 Cumulative Energy Target Achieved (%):	26.1%

Assuming Demand Response resources remain in your territory until 2014:	Standing:	
Unverified 2014 Peak Demand Savings Target Achieved (%):	6.5%	40 of 77
Unverified 2011-2014 Cumulative Energy Target Achieved (%):	26.1%	10 of 77

Message from the Vice President

The OPA Conservation team is pleased to provide the Q4 2011 CDM Status Report. Province-Wide programs are showing success and we are well positioned to meet our 2011-14 targets, thanks to the efforts of the OPA and you, the LDCs. A "Standing" column has been included in this report (in the table above) which reflects your position based on the percent of target achieved. This is based on preliminary results and is intended to provide you with a snapshot of how your LDC is performing relative to the others in the province.

We have achieved 80% of our 2011 Province-Wide programs peak demand savings forecast - more data will be available as projects progress through the final stages of approval. We will continue to update preliminary 2011 data (which will be reflected in the "Program-to-Date" columns) until the results are verified later this year.

We invite you to continue to look for opportunities to improve this report to meet your needs and welcome your suggestions. Additionally, if you are having any concerns with roll-out or have a particular success to share, please contact the OPA Conservation Business Development team at ldc.support@powerauthority.on.ca.

- Andrew Pride
Vice President, Conservation
Ontario Power Authority



About this Report:

This report contains:

- Peak demand and energy savings for OPA-Contracted Province-Wide programs (does not incl. Ontario Energy Board (OEB) approved CDM programs or other conservation efforts undertaken by an LDC).
- Unverified quarterly results discounted using forecasted net-to-gross ratios. Once full Evaluation, Measurement & Verification (EM&V) occurs in the following year, results will be identified as final (verified).
- Data presented in this report represents program activity (i.e. projects completed, appliances picked up) completed on or before December 31, 2011 and received and entered into the OPA processing systems as per the dates specified in table 5.
- Updates to the previous quarter's participation due to more data availability.

Future reports will contain:

- More data for the Home Assistance Program
- **peaksaver** PLUS preliminary results representing all participants that are enrolled in **peaksaver** PLUS.
- Full, bar-code specific 2011 Coupon and Bi-Annual Retailer Event data (Retailers have until March 31, 2012 to submit coupons redeemed in 2011 to the OPA). Results are currently provincially allocated; once bar-code specific data is gathered, results can be attributed to a particular LDC. Data will be available to LDCs once retailers have submitted the coupons and QA/QC by the OPA is undertaken.

New this quarter based on LDC feedback:

- Demand response is now reported only in the "YTD Incremental" column. This value represents the total demand response under contract in your LDC territory as of the end of the current reporting period.
- The allocation methodology used to attribute non-bar code specific coupon redemptions from the Instant Coupon Booklet and Bi-Annual Retailer Event to each LDC was updated to reflect each LDC's proportion of the average 2008 and 2009 residential throughput as per the OEB yearbook.
- Table 5 on the final page of this report is intended to assist the LDC in reconciling internal data sources with the data contained in this report by communicating: **1.** The date in which the OPA considers savings to 'start'; **2.** At what point the data becomes available to the OPA; **3.** The date in which the data was collected for reporting purposes; **4.** The expected probability and magnitude of updates to the data as more information becomes available.

Reporting Methodology (Quarterly, Unverified results):

The OPA's policy on reporting preliminary results for prescriptive measures (i.e. standard technologies and items) is to determine the activity (i.e. appliances collected, projects completed, coupons redeemed, etc.) in the most detail possible and multiply these values by Prescriptive Input Assumptions (PIAs) and net-to-gross (NTG) ratios that were used to forecast the programs if available.

$$\text{Preliminary Net Savings} = \text{Activity} * \text{Gross per unit PIA} * \text{Net-to-gross ratio}$$

For engineered or custom projects, the calculated savings from each participant worksheet are summed and then multiplied by the forecasted net-to-gross ratio used for program planning purposes.



2011-2014 Summary

2011 Quarter 4

January 1, 2011 to December 31, 2011

This section provides a portfolio level view of net peak demand savings and net energy savings procured through Tier 1 programs to date.

Table 1 presents preliminary net peak demand savings results from 2011 to date by implementation period. This table also presents the net annual peak demand savings that are expected to persist through to 2014 from program activity completed to date. Please note that demand response 1 and 3 have a persistence of 1 year.

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

#	Implementation Period	Annual			
		2011	2012	2013	2014
1	2011 - Reported - Quarter 1	0.09	0.09	0.09	0.09
2	2011 - Reported - Quarter 2	0.12	0.12	0.12	0.12
3	2011 - Reported - Quarter 3	0.14	0.08	0.08	0.08
4	2011 - Reported - Quarter 4	0.08	0.02	0.02	0.02
5	2012				
6	2013				
7	2014				
Annual Reported (Unverified)		0.36			
Annual Final (Verified)		n/a			
Unverified Net Annual Peak Demand Savings in 2014:					0.31
2014 Annual CDM Capacity Target:					5.56
Unverified 2014 Peak Demand Savings Target Achieved (%):					5.6%

Table 2 presents preliminary net annual energy savings results from 2011 to date by implementation period. This table also presents 2011-2014 net cumulative energy savings expected in 2014 from program activity completed to date.

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

#	Implementation Period	Annual				Cumulative
		2011	2012	2013	2014	2011-2014
1	2011 - Reported - Quarter 1	0.41	0.41	0.41	0.41	1.66
2	2011 - Reported - Quarter 2	0.40	0.40	0.40	0.40	1.60
3	2011 - Reported - Quarter 3	0.35	0.35	0.35	0.35	1.39
4	2011 - Reported - Quarter 4	0.18	0.18	0.18	0.18	0.72
5	2012					
6	2013					
7	2014					
Annual Reported (Unverified)		1.34				
Annual Final (Verified)		n/a				
Unverified Net Cumulative Energy Savings 2011-2014:					5.37	
2011-2014 Cumulative CDM Energy Target:					20.60	
Unverified 2011-2014 Cumulative Energy Target Achieved (%):					26.1%	



2011-2014 Summary

2011 Quarter 4

January 1, 2011 to December 31, 2011

Figure 1 presents unverified net annual peak demand savings achieved and expected persistence through to 2014 for program activity completed to date. The 2014 annual peak demand savings target as per OEB is also presented.

Figure 1: Net Peak Demand Savings (MW)

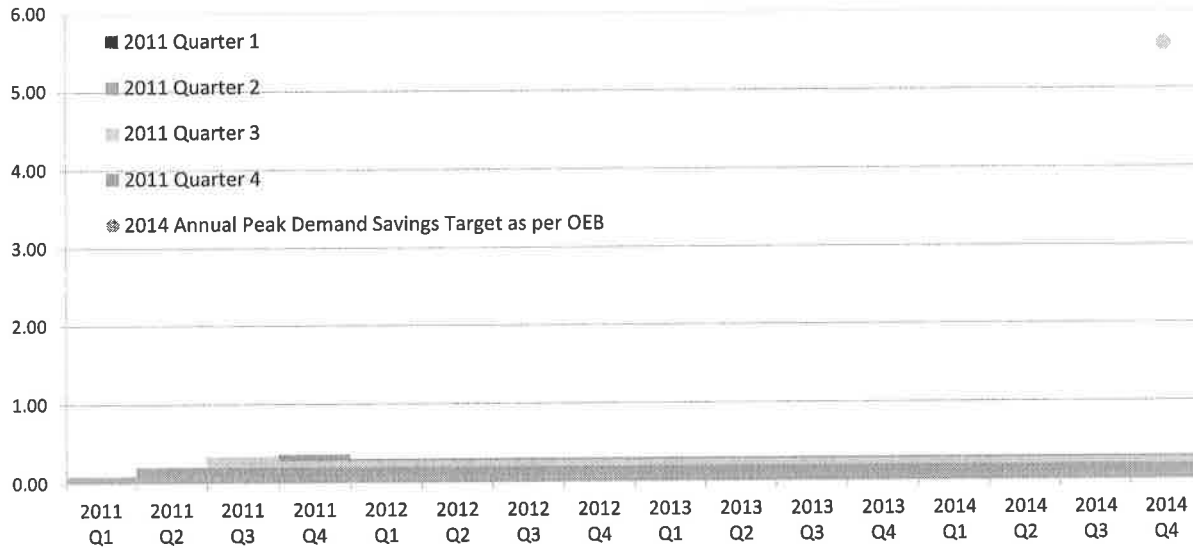


Figure 2 presents unverified net cumulative energy savings achieved including expected persistence to 2014 from program activity completed to date. The 2011-2014 cumulative energy savings target as per OEB is also presented.

Figure 2: Net Cumulative Energy Savings (GWh)

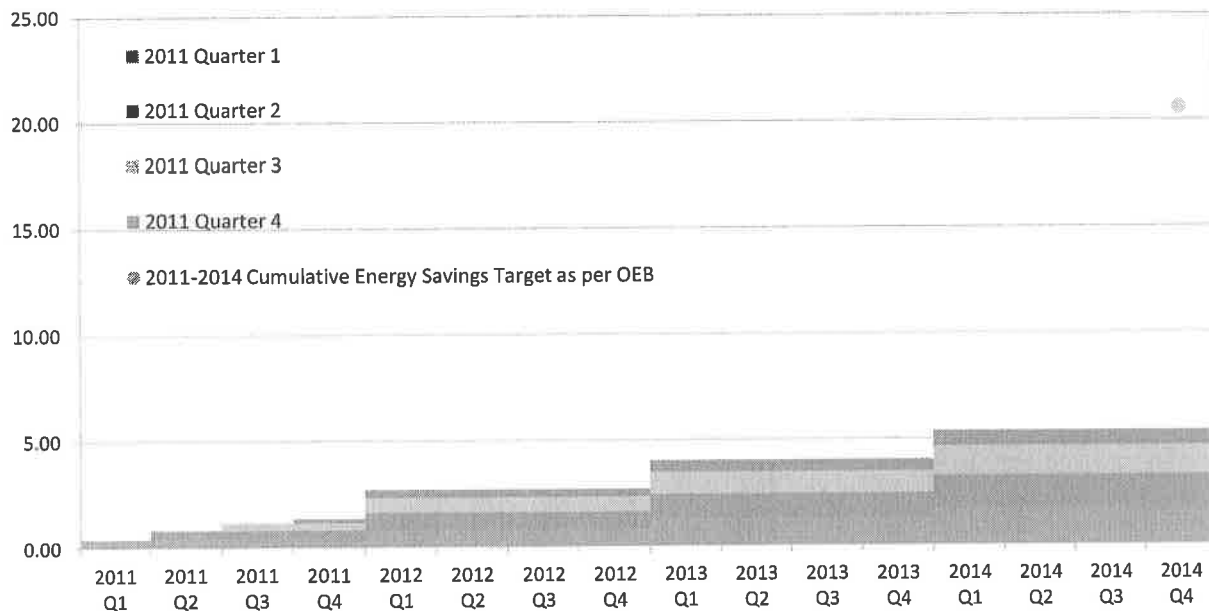


Table 3: Welland Hydro-Electric System Corp. Initiative and Program Level Savings

Shaded areas indicate data is not yet available

All results are NET and presented at the end-user level

#	Initiative	Activity		Net Peak Demand Savings (kW)			Net Energy Savings (kWh)			
		Unit	Incremental (Current Quarter)	Program-to-Date (2011-to-Date):	Incremental (Current Quarter)	YTD Incremental (2011-to-Date)	Program-to-Date: unverified annual savings in 2014	Incremental (Current Quarter)	YTD Incremental (2011-to-Date)	Program-to-Date: unverified cumulative savings in 2014
Consumer Program										
1	Appliance Retirement	Appliances	61	231	5	18	18	31,061	119,972	479,888
2	Appliance Exchange	Appliances	0	7	0	1	1	0	1,029	4,116
3	HVAC Incentives	Equipment	37	303	8	63	63	2,283	83,325	333,301
4	Conservation Instant Coupon Booklet	Coupons	350	560	1	2	2	27,596	44,058	176,234
5	Bi-Annual Retailer Event	Coupons	758	1,309	1	3	3	46,732	84,116	336,465
6	Retailer Co-op	Items	0	0	0	0	0	0	0	0
7	peaksaver extension	Devices	0	79	0	62	62	0	1,230	4,920
8	Midstream Electronics	Items								
9	Midstream Pool Equipment	Items								
10	Residential New Construction	Houses	0	0	0.00	0.00	0.00	0	0	0
Consumer Program Total					16	148	148	107,672	333,731	1,334,923
Business Program										
11	Equipment Replacement Incentive	Projects	3	11	3	20	20	16,765	109,975	439,899
12	Direct Installed Lighting	Projects	6	90	3	56	56	22,764	418,276	1,673,106
13	Direct Service Space Cooling	Equipment								
14	Building Commissioning	Buildings	0	0	0	0	0	0	0	0
15	New Construction	Buildings	0	0	0	0	0	0	0	0
16	peaksaver extension	Devices	0	0	0	0	0	0	0	0
17	Demand Response 1	Facilities								
18	Demand Response 3	Facilities		1	54	54	0	0	1,685	1,685
Business Program Total					6	130	76	39,529	529,936	2,114,689
Industrial Program										
19	Process & System Upgrades	Projects	0	0	0	0	0	0	0	0
20	Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0
21	Energy Manager	Managers	0	0	0	0	0	0	0	0
22	Equipment Replacement Incentive	Projects	0	0	0	0	0	0	0	0
23	Demand Response 1	Facilities								
24	Demand Response 3	Facilities		0						
Industrial Program Total					0	0	0	0	0	0
Home Assistance Program										
25	Home Assistance Program	Units	494	494	1	1	1	18,047	18,047	72,188
Home Assistance Program Total					1	1	1	18,047	18,047	72,188
Pre-2011 Programs completed in 2011										
25	Electricity Retrofit Incentive Program	Projects	0	2	0	70	70	0	351,333	1,405,331
26	High Performance New Construction	Projects	0	1	2	16	16	14,285	110,345	441,380
27	Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0
28	Multifamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011 Total					2	85	85	14,285	461,678	1,846,711
OPA-Contracted Province-Wide Portfolio Total					25	364	310	179,533	1,343,391	5,368,511



Table 4: Province-Wide Initiative and Program Level Savings

Shaded areas indicate data is not yet available

All results are NET and presented at the end-user level

#	Initiative	Activity		Net Peak Demand Savings (kW)			Net Energy Savings (kWh)			
		Unit	Incremental (Current Quarter)	Program-to-Date (2011-to-Date):	Incremental (Current Quarter)	YTD Incremental (2011-to-Date)	Program-to-Date: unverified annual savings in 2014	Incremental (Current Quarter)	YTD Incremental (2011-to-Date)	Program-to-Date: unverified cumulative savings in 2014
Consumer Program										
1	Appliance Retirement	Appliances	15,019	56,035	1,194	4,333	4,333	7,716,329	28,872,984	115,491,936
2	Appliance Exchange	Appliances	0	4,715	0	479	479	0	604,709	2,418,836
3	HVAC Incentives	Equipment	7,397	56,127	1,717	12,512	12,512	1,134,038	17,784,401	71,137,602
4	Conservation Instant Coupon Booklet	Coupons	90,106	144,467	269	468	468	7,114,454	11,358,484	45,433,938
5	Bi-Annual Retailer Event	Coupons	195,529	337,358	374	791	791	12,047,863	21,685,594	86,742,376
6	Retailer Co-op	Items	0	152	0	0	0	0	41	162
7	peaksaver extension	Devices	10	18,435	8	14,352	14,352	156	287,033	1,148,132
8	Midstream Electronics	Items								
9	Midstream Pool Equipment	Items								
10	Residential New Construction	Houses	5	5	0.04	0.04	0.04	557	557	2,227
Consumer Program Total					5	32,934	32,934	28,013,397	80,593,802	322,375,209
Business Program										
11	Equipment Replacement Incentive	Projects	243	944	1,845	8,223	8,223	7,170,097	37,650,286	150,601,145
12	Direct Installed Lighting	Projects	2,422	18,667	1,546	10,407	10,407	11,414,663	77,311,193	309,244,770
13	Direct Service Space Cooling	Equipment								
14	Building Commissioning	Buildings	0	0	0	0	0	0	0	0
15	New Construction	Buildings	0	0	0	0	0	0	0	0
16	peaksaver extension	Devices	0	121	0	201	201	0	4,029	16,117
17	Demand Response 1	Facilities		0		0	0		0	0
18	Demand Response 3	Facilities		145		21,390	0		667,368	667,368
Business Program Total					145	3,391	40,722	18,584,760	115,632,876	460,529,401
Industrial Program										
19	Process & System Upgrades	Projects	0	0	0	0	0	0	0	0
20	Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0
21	Energy Manager	Managers	0	0	0	0	0	0	0	0
22	Equipment Replacement Incentive	Projects	35	179	439	1,636	1,636	2,056,245	7,800,798	31,203,192
23	Demand Response 1	Facilities		0		0	0		0	0
24	Demand Response 3	Facilities		125		67,276	0		699,670	699,670
Industrial Program Total					125	439	68,912	2,056,245	8,500,468	31,902,862
Home Assistance Program										
25	Home Assistance Program	Units	494	494	1	1	1	18,047	18,047	72,188
Home Assistance Program Total					494	1	1	18,047	18,047	72,188
Pre-2011 Programs completed in 2011										
25	Electricity Retrofit Incentive Program	Projects	29	483	397	5,079	5,079	1,441,254	19,451,459	77,805,835
26	High Performance New Construction	Projects	28	220	650	4,723	4,723	4,306,415	33,266,180	133,064,719
27	Toronto Comprehensive	Projects	27	576	1,559	13,774	13,774	13,405,628	83,570,866	334,283,463
28	Multifamily Energy Efficiency Rebates	Projects	0	110	0	1,886	1,886	0	7,218,883	28,875,534
Pre-2011 Programs completed in 2011 Total					110	2,506	25,461	19,153,297	143,507,388	574,029,551
OPA-Contracted Province-Wide Portfolio Total					9,998	167,529	78,863	67,825,747	348,252,582	1,388,909,212



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.

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

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).

Final 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).

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.

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

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 Savings: savings achieved that are based on reported activity and forecasted 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).

Table 5: Data Qualifiers for Initiatives currently in market

For Example: Preliminary results for Retrofit are reported in this quarter if a project is completed on or before Dec. 31, 2011 and had the iCON status "Approved for payment by LDC" or "Released for Payment" as of Jan. 20, 2012. There is a high probability that there are more results coming in for this initiative.

Initiative	Savings 'start' Date	Data Available	As of:	Updates:
Conservation Instant Coupon Booklet	Invoice date from coupon clearinghouse	Once data is submitted to the OPA by retailers	Dec. 21, 2011	High
Bi-Annual Retailer Event	Event date		Dec. 16, 2011	Low
Appliance exchange initiative	Will vary by specific project	Varies by specific project	Dec. 31, 2011	Low
Retailer co-op activities	Pick-up date	When database is queried	Jan. 11, 2012	Moderate
Appliance Retirement	Installation date	Customer's submit rebate and invoices are processed	Oct. 31, 2011	High
HVAC Incentives	Device installation date	Upon payment to LDC	Jan. 26, 2012	Moderate
peaksaver extension	Project completion	Preliminary Billing Report issued to LDC	Jan. 2, 2012	Low
New construction				
Home Assistance Program	Project Completion Date	TBD	Jan. 23, 2012	High
Direct Installed Lighting		Work-order: invoiced, approved and paid to LDC	Dec. 1, 2011	High
Equipment Replacement Incentive		"Approved for Payment by LDC" or "Released for Payment" status on iCON	Jan. 20, 2012	High
Process & Systems Upgrades	Project Completion Date	Upon payment to LDC	Jan. 20, 2012	Low
Building Commissioning		Upon payment to LDC	Jan. 20, 2012	Moderate
New Construction		Upon payment to LDC	Jan. 20, 2012	Low
peaksaver extension	Device installation Date	Upon payment to LDC	Jan. 26, 2012	Moderate
Demand Response (DR1, DR3)	Facility is available under contract	Facility under contract with aggregator	Dec. 31, 2011	Low
High Performance New Construction			Jan. 16, 2012	High
Electricity Retrofit Incentive Program			Jan. 13, 2012	High
Multifamily Energy Efficiency Rebates			Nov. 2011	Low
Toronto Comprehensive			Jan. 11, 2012	High
Equipment Replacement Incentive	Project Completion Date	"Approved for Payment by LDC" or "Released for Payment" status on iCON	Jan. 20, 2012	High
Process & System Upgrades	In Service Date	Report submitted	Jan. 20, 2012	Low
Monitoring & Targeting	2nd year Report	Facility available under contract	Jan. 20, 2012	Low
Demand Response (DR1, DR3)	Facility is available under contract	Report submitted quarterly	Dec. 31, 2011	Low
Energy Manager	Quarterly Report Date		Jan. 20, 2012	Low