

Conservation Progress Report

FOURTH QUARTER

2015



Overview

The Independent Electricity System Operator (IESO) oversees a portfolio of electricity conservation and demand management programs that offer savings for all Ontarians. The IESO supports local distribution companies' (LDCs) delivery of programs to their residential, business, and industrial customers, and offers programs directly to transmission-connected customers.

This report highlights the achievements of Save on Energy programs and other conservation initiatives in the fourth quarter (Q4) of 2015, as well as year-to-date (YTD) totals for 2015. Preliminary Q4 2015 results indicate 480 gigawatt-hours (GWh) net energy savings from LDC-delivered and non-LDC delivered programs and 238 megawatts (MW) of net peak demand savings were achieved.

The IESO's conservation and demand management efforts are guided by the Conservation First Framework, which spans over 2015-2020 and aims to achieve 7 terawatt-hours (TWh) of electricity savings through programs and initiatives offered to all customer segments. The framework also includes delivering 1.7 TWh of energy savings through the Industrial Accelerator program.

The savings in this report are preliminary. The 2015 Annual Conservation Results Report will be available later this year and will contain final, verified savings results.

For more information on the IESO's conservation and demand management programs, please visit saveonenergy.ca.

Conservation Highlights

Submission of CDM plans by LDCs

The IESO has approved all CDM Plans, with the expectation of one plan consisting of three LDCs – approved plans represent approximately 99.9% of the allocated 7 TWh CDM target. The plans outline the strategy each LDC will use to cost-effectively meet their portion of the provincial target. Approved plans are available here: <http://www.ieso.ca/Pages/Conservation/Conservation-First-Framework/Conservation-and-Demand-Management-Plans.aspx>

Energy and Demand Savings

In 2015, LDC and Non-LDC delivered programs achieved 1,279 GWh of energy savings and 366 MW of demand reduction.

Residential Programs

- o In 2015, the Save on Energy residential programs saved 136 GWh which is the equivalent to removing approximately 14,000 homes from the grid
- o The Bi-Annual Coupon program was the highest contributor of energy savings in the residential portfolio in 2015, representing 38% (51 GWh) of the residential energy savings achievement
- o In 2015, Save on Energy Coupons accounted for 4.4 Million measures redeemed across the province accounting for 73 GWh of energy savings
 - 99% of the measures redeemed were lighting measures
- o The Heating & Cooling Incentive continues to be a significant contributor to the residential portfolio, accounting for 28% (38 GWh) of the residential energy savings achievement

Business Programs

- o In 2015, the Save on Energy business programs saved 1 TWh of energy savings which is the equivalent to removing 114,000 homes from the grid
- o Business programs accounted for over 89% of the 2020 energy savings target achievement
 - The Retrofit programs accounted for 58%
 - The Process & Systems Upgrade Incentive accounted for 24%

Conservation Portfolio Results

Table 1 summarizes Q4 2015 conservation portfolio results. For the purposes of this report, LDC-delivered programs include those delivered by LDCs (directly or through contractors, retailers and aggregators). Non-LDC delivered program savings are attributed to the **INDUSTRIAL ACCELERATOR PROGRAM** and residential demand response (*peaksaver*®) customers enrolled pre-2011 who have not re-signed participant agreements with their Aggregator or LDC.

Table 1: Conservation portfolio results*

	Q4 2015	2015	Q4 2015	2015
	Net energy savings (GWh)	Net energy savings (GWh)	Net peak demand savings (MW)	Net peak demand savings (MW)
LDC-delivered programs	479	1,231	68	190
Non-LDC-delivered programs	1	48	171	176
Total	480	1,279	238	366

**Savings reported at generator level; totals may not align due to rounding.*

Table 2 provides the net peak demand savings and net energy savings for the residential, business and industrial programs for the fourth quarter, as well as totals for 2015. Where a value of zero is shown, this indicates that no event, project, or activity associated with savings occurred this quarter.

Table 2: Net peak demand and net energy savings for residential and business programs*

Initiative	Delivery agent	Net Energy Savings (GWh)		Net Peak Demand Savings (MW)	
LDC-delivered programs		Q4 2015	2015	Q4 2015	2015
Residential					
Fridge & Freezer Pickup	Contractors	2.52	6.59	0.40	1.08
Heating & Cooling Incentive	Contractors	7.79	38.00	4.12	20.70
Annual COUPONS	Retailers	3.38	22.55	0.22	1.48
Spring/Fall COUPON event	Retailers	23.44	50.93	1.48	3.59
New Home Construction	LDCs	1.13	4.47	0.08	0.61
Commercial & Industrial					
Retrofit Program	LDCs	199.51	681.28	28.26	91.98
Small Business Lighting	LDCs	16.34	62.74	4.55	17.33
Existing Building Commissioning	LDCs	0.73	0.99	0.23	0.34
High Performance New Construction	LDCs	0.22	29.87	0.06	7.95
Audit Funding	LDCs	1.47	17.14	0.30	3.51
Process & Systems	IESO	217.43	279.65	27.36	34.77
Monitoring & Targeting	LDCs	0.00	1.33	0.00	0.21
Energy Manager	LDCs	2.61	22.29	0.28	4.74
Home Assistance Program					
Home Assistance Program	LDCs	2.21	13.21	0.34	1.71
Non-LDC delivered programs		Q4 2015	2015	Q4 2015	2015
Industrial Accelerator Program	IESO	1.17	46.09	0.15	5.59
Residential/Small Commercial Demand Response	IESO	0.00	0.00	170.48	170.48
Aboriginal Conservation Program	IESO	0.00	2.31	0.00	0.24

Program Participation

Table 3 provides the participation results for the residential, business and industrial programs for the fourth quarter. Where a value of zero is shown, this indicates that no event, project, or activity associated with savings occurred this third quarter.

Table 3: Conservation program participation results

Initiative	Q4 2015	2015	Metric
LDC-delivered programs			
Residential			
Fridge & Freezer Pickup	5,507	14,524	Appliances
Heating & Cooling Incentive	16,669	100,029	Installations
Annual COUPONS	201,890	1,363,074	Measures
Spring/Fall COUPON event	1,382,532	3,066,946	Measures
New Home Construction	542	2,834	Homes
Commercial & Industrial			
Retrofit Program	3,731	14,657	Projects
Small Business Lighting	4,462	17,353	Projects
Existing Building Commissioning	7	9	Projects
High Performance New Construction	9	64	Buildings
Audit Funding	21	245	Audits
Process & Systems	15	23	Projects
Monitoring & Targeting	0	1	Projects
Energy Manager	26	324	Projects
Home Assistance Program			
Home Assistance Program	1,842	13,482	Homes
Non-LDC delivered programs			
Industrial Accelerator Program	5	15	Projects
Residential/Small Commercial Demand Response	526,683	526,683	Devices
Aboriginal Conservation Program	0	1,727	Homes

**Includes total count of all available thermostats, switches and in-home devices.*

Independent Electricity System Operator

1600-120 Adelaide Street West

Toronto, Ontario M5H 1T1

Phone: 905.403.6900

Toll-free: 1.888.448.7777

E-mail: customer.relations@ieso.ca

ieso.ca

 @IESO_Tweets

 facebook.com/OntarioIESO

 linkedin.com/company/ieso

saveonenergy.ca

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