

# Final Verified 2016 Annual LDC CDM Program Results Report

## Letter from the Vice-President, Conservation & Corporate Relations

June 30, 2017

I am pleased to provide LDCs with their Final Verified 2016 Annual Results Report. Collectively in 2016, LDCs achieved 1.2 TWh of energy savings persisting to 2020. When combined with the 2015 results, LDCs have achieved 2.6 TWh of energy savings, representing 38 % of the 7 TWh target. The results show positive progress towards the achievement of the Conservation First Framework (CFF) target and demonstrate the continued collaboration between LDCs and the IESO in promoting culture of conservation across the province.

Key highlights from the 2016 final results include the following:

- The Coupons program produced a record achievement, delivering 428 GWh of energy savings in 2016, more than doubling the results from 2015. LED light bulbs remained the most common measure accounting for 75 % of coupons redeemed and 96 % of savings.
- The Retrofit program continues to be the highest performing program achieving 567 GWh of energy savings in 2016, despite experiencing a 29 % reduction in savings over the 2015 results (including adjustments). Lighting measures continue to produce the majority of savings, 74 % in 2016, with non-lighting measures accounting for the remainder.
- The success of the Coupons program supported residential sector programs in achieving a larger share of the portfolio savings in 2016 than in previous years, accounting for 44 % of target achievement, with business sector programs and local and pilot programs accounting for 54 % and 1 %, respectively.
  - It is important to note that there remains a considerable data lag, representing completed, but unreported projects for the Retrofit and Process and Systems Upgrades Programs. Together, these programs have roughly 250 GWh in unverified savings waiting to be reported by LDCs. It is anticipated that these savings will be reported in future year's 2016 adjustments.
- As with 2015, the IESO evaluation methodology enabled further granulation of net verified results in 2016, resulting in increased LDC-specific and regional level net-to-gross adjustment factors, where data permitted.
- Four LDCs have achieved at least 90 % of their CFF target, and nine others are above 50 %. These early successes are prompting increased dialogue between LDCs with respect to potential target exchange, which is both permitted and encouraged under the CFF.

There were minor revisions to the final results relative to the preliminary results including: 1) revisions/corrections to program savings assumptions / adjustments as required (primarily to participation levels for Coupons Program and Heating & Cooling Program); 2) the inclusion of an additional five LDC Innovation Fund and Conservation Fund Pilot Programs; and 3) amendments based on comments received by LDCs as part of their review of the preliminary results. Further details on the revisions between the preliminary and the final 2016 verified results can be found in the 2016 Frequently Asked Questions (FAQs) and Evaluation Findings Report which will be posted along with the results on the LDC extranet.

Please note that all results contained within this report are considered to be final verified results. Projects included in this report are reflected in the accompanying LDC Project List Report. Any program activity not captured in this report will be included as part of a future adjustment process.

In terms of next steps, as with the 2015 CFF results, Final Verified 2016 Annual Results Reports will be posted on the IESO website in early July. In addition, LDC-Program level and portfolio-level cost effectiveness test results will be available on September 15, 2017, as outlined in the Energy Conservation Agreement version update. Finally, 2016 EM&V reports will be available later this summer along with key program recommendations to be shared with the LDC Working Groups and the IESO.

We appreciate your collaboration and cooperation throughout the reporting and evaluation process. As we look ahead, the IESO will be focusing on enhancing its communication and support services to further support LDCs in the delivery of programs and to increase customer participation in these programs. I look forward to continuing to work together in achieving success in the Conservation First Framework.

Sincerely,

Terry Young  
Vice-President, Conservation & Corporate Relations  
Independent Electricity System Operator

# Final Verified 2016 Annual LDC CDM Program Results Report

## Table of Contents

#	Worksheet Name	Worksheet Description
1	How to Use This Report	Describes the contents and structure of this report
2	Report Summary	A high level summary of the Final 2016 Annual Verified Results Report, including: 1) progress toward the LDC's a) Allocated 2020 Energy Savings Target; b) Allocated 2015-2020 LDC CDM Plan Budget; c) CDM Plan 2015-2020 Forecasts; 3) annual savings and spending; 4) Annual FCR Progress; 5) annual LDC CDM Plan spending progress; 6) graphs describing: a) contribution to 2020 Target Achievement by program; b) 2015 LDC CDM Plan Budget Spending by Sector; c) annual energy savings persistence to 2020 by year; d) your Allocated Target achievement progress relative to your peers; and e) your LDC CDM Plan Budget Spending progress relative to your peers;
3	LDC Rankings	A comprehensive report of each LDC's performance rankings against all other LDCs in major performance categories.
4	LDC Progress	A comprehensive report of 2016 conservation results including: 1) activity; 2) savings including; a) energy and peak demand; b) net and gross; c) CDM Plan forecasts, verified actuals and relative progress; d) Allocated Target and Target achievement; and 3) spending, including participant incentives and administrative expenses and IESO Value Added Services Costs.  Data is grouped by category and summarized at the LDC level.
5	Province-Wide Progress	A comprehensive report of 2016 conservation results including: 1) activity; 2) savings including; a) energy and peak demand; b) net and gross; c) CDM Plan forecasts, verified actuals and relative progress; d) Allocated Target and Target achievement; and 3) spending, including participant incentives and administrative expenses and IESO Value Added Services Costs.  Data is grouped by category and summarized at the province wide level.
6	LDC Savings Persistence	A report detailing the gross and net energy and peak demand savings persistence by program and implementation year (2015, 2015 Adjustment and 2016) at the LDC Level.
7	Province-Wide Persistence	A report detailing the gross and net energy and peak demand savings persistence by program and implementation year (2015, 2015 Adjustment and 2016) at the province wide Level.
8	Methodology	A description of the methods used to calculate energy savings, financial results and cost-effectiveness.
9	Reference Table	Provides detailing how Province wide Consumer Program results were allocated to specific LDCs.
10	Glossary	Definitions for the terms used throughout this report.

# Final Verified 2016 Annual LDC CDM Program Results Report

## How to Use this Report

The IESO is pleased to provide you with the 2016 Annual Verified Results Report.

This report provides:

- 1) electricity savings;
- 2) annual Full Cost Recovery funding model program progress; and
- 3) peak demand savings;
- 4) IESO Value Added Services Costs

in accordance with Section 9.2(b)(i) of the Energy Conservation Agreement.

In addition to the above, this report also provides in greater detail:

- 1) program participation results including:
  - a) forecasts; b) actuals; and c) progress (forecast versus (vs) actuals);

- 2) program savings results including:
  - a) net 2020 annual energy and peak demand savings;
  - b) allocated target, target achievement and progress towards target;
  - c) incremental net first year energy and peak demand savings;
  - d) annual net-to-gross and realization rate adjustments; and
  - e) incremental gross first year energy and peak demand savings;

and where available reported by: i) forecasts; ii) verified actuals; and iii) progress (forecast vs actuals);

- 3) program spending including:
  - a) participation incentive spending;
  - b) administrative expense spending (including IESO value-added services costs);
  - c) aggregated total spending; and
  - d) allocated budget, LDC CDM Plan budget spending and progress towards budget;

and for each cost: i) forecasts; ii) verified actuals; and iii) progress (forecast vs actuals);

- 4) program savings results persistence for:
  - a) gross energy savings;
  - b) gross peak demand savings;
  - c) net energy savings; and
  - d) net peak demand savings;

by both the LDC specific level and the province-wide aggregated level for 2016 and 2015 including 2015 Adjustments.

This report's format is consistent with the IESO issued Monthly Participation and Cost Report in that it is a dynamic sheet that can be expanded or collapsed by clicking the + button or "Show Detail" feature under the Data tab. Each of the four results categories listed above have been grouped together for easy accessibility.

Program Report		For: Province Wide		Programs		Participation >		Net Incremental 2016 Annual Energy Savings (Progress towards 2015 - 2020 CFF LDC CDM Plan Target) >		Net Incremental 2015 Annual Energy Savings >		Net Incremental First Year Energy Savings >		Net Incremental First Year Peak Demand Savings >		Net Incremental First Year Peak Demand Savings - Energy >		Net-to-Gross Adjustment - Peak Demand >		Net-to-Gross Adjustment - Peak Demand - Energy >		Realization Rate - Peak Demand >		Realization Rate - Peak Demand - Energy >		Gross Incremental First Year Energy Savings >		Gross Incremental First Year Peak Demand Savings >		Gross Incremental First Year Peak Demand Savings - Energy >		Swing Group >		Participant monthly spending >		LDC Administrative Expense Spending >		Total Administrative Expense Spending >		Value Added Services Provider Administritve Expense Spending >		Total 2015-2020 CFF LDC CDM Plan Budget Spending >		Spending Group >		Total Resource Cost - Cost Effectiveness Test - Gross Benefit >		Total Resource Cost - Cost Effectiveness Test - Gross Cost >		Total Resource Cost - Cost Effectiveness Test - Net Benefit >		Total Resource Cost - Cost Effectiveness Test - Net Benefit Ratio >		Program Administrator Cost - Cost Effectiveness Test - Gross Benefit >		Program Administrator Cost - Cost Effectiveness Test - Gross Cost >		Program Administrator Cost - Cost Effectiveness Test - Net Benefit >		Program Administrator Cost - Cost Effectiveness Test - Net Benefit Ratio >		Leveled Unit Energy Cost - Cost Effectiveness Test >		Leveled Unit Energy Cost - Cost Effectiveness Test - Cost >		Leveled Unit Energy Cost - Cost Effectiveness Test >		Cost Effectiveness Test Group >			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44																												
2015-2020 Conservation First Framework Programs		Residential Province-Wide Programs		1: Save on Energy Coupling Program		2: Save on Energy Housing & Cooling Program		3: Save on Energy New Construction Program		4: Save on Energy Home Assistance Program		Sub-total: Residential Province-Wide Programs		Business Province-Wide Programs		5: Save on Energy Audit Funding Program		6: Save on Energy Retrofit Program		7: Save on Energy Small Business Lighting Program		8: Save on Energy High Performance New Construction Program		9: Save on Energy Existing Building Commissioning Program		10: Save on Energy Process & Systems Upgrades Program		11: Save on Energy Water Efficiency Program		12: Save on Energy Monitoring & Target Program		13: Save on Energy Retrofit Program - p4P		14: Save on Energy Process & Systems Upgrades Program - P4P		Sub-total: Business Province-Wide Programs		Local & Regional Programs		15: Adaptive Thermostat Local Program		16: Business Refrigeration Incentives Local Program		17: Conservation on the Coast Home Assistance Local Program		18: Conservation on the Coast Small Business Lighting Local Program		19: First Nation Conservation Local Program		20: High Efficiency Agricultural Pumping Local Program		21: Instant Savings Local Program		22: Instant Savings Pilot Program		23: Social Benchmarking Local Program		24: THERS Swimming Pool Efficiency Local Program		Sub-total: Local & Regional Programs - To be confirmed		Pilot Programs		25: Air Source Heat Pump for Residential Water Heating Pilot Program		26: Building Optimization Pilot Program		27: Conservation Voltage Regulation Leveraging AMI Data Pilot Program		28: Conservation Voltage Regulation Leveraging AMI Data Pilot Program	
Please note:		1) Cost Effectiveness Test (CET) results including: <ol style="list-style-type: none"><li>a) total resource cost test;</li><li>b) program administration cost test;</li><li>c) leveled unit energy cost test;</li></ol>		and for each test: i) benefits; ii) cost; iii) net benefit; iv) benefit ratio; at the LDC and province wide level will not be available in this report but will be provided to LDCs by September 15 2017, as per the Energy Conservation Agreement, version 3.0.		2) forecasts of: a) activity; b) savings; and c) spending; included in this report are based on approved LDC CDM Plan - Cost Effectiveness Tools as of April 1, 2017 (from the i) Program Design; ii) Budget Inputs; iii) Savings Results; and iv) CE Results; worksheets); Please note that this does not contain data for Legacy Framework program spending or CFF pilot program activity, savings, spending or cost effectiveness.		3) Annual FCR Progress only includes Full Cost Recovery funding model program savings results and excludes Pay-for-Performance funding model program savings results.		4) The complete list of approved programs and pilots as of April 1, 2017 approved LDC CDM Plans have been included, however only programs and pilots in market for a sufficient period of time to enable a valid EM&V process will have verified results.		5) 2015 Adjustments consists of projects completed in 2015 but were not reported to the IESO by the 2015 Verified Results Reporting deadline of March 31, 2016.		6) Pilot program savings are attributed to the LDC where the pilot program project is located in; and		7) This Annual Verified Results Report provides results for the LDC and province only. No aggregated reporting is provided for LDCs that are part of a joint CDM plan;																																																							

Please note:

- 1) Cost Effectiveness Test (CET) results including:
  - a) total resource cost test;
  - b) program administration cost test;
  - c) leveled unit energy cost test;and for each test: i) benefits; ii) cost; iii) net benefit; iv) benefit ratio; at the LDC and province wide level will not be available in this report but will be provided to LDCs by September 15 2017, as per the Energy Conservation Agreement, version 3.0.
- 2) forecasts of: a) activity; b) savings; and c) spending; included in this report are based on approved LDC CDM Plan - Cost Effectiveness Tools as of April 1, 2017 (from the i) Program Design; ii) Budget Inputs; iii) Savings Results; and iv) CE Results; worksheets); Please note that this does not contain data for Legacy Framework program spending or CFF pilot program activity, savings, spending or cost effectiveness.
- 3) Annual FCR Progress only includes Full Cost Recovery funding model program savings results and excludes Pay-for-Performance funding model program savings results.
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## Summary

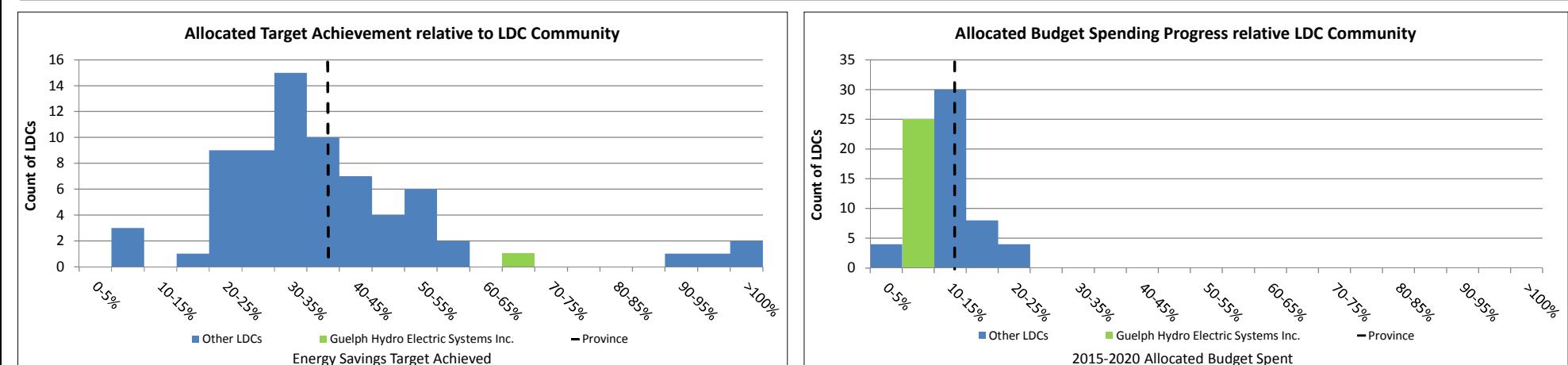
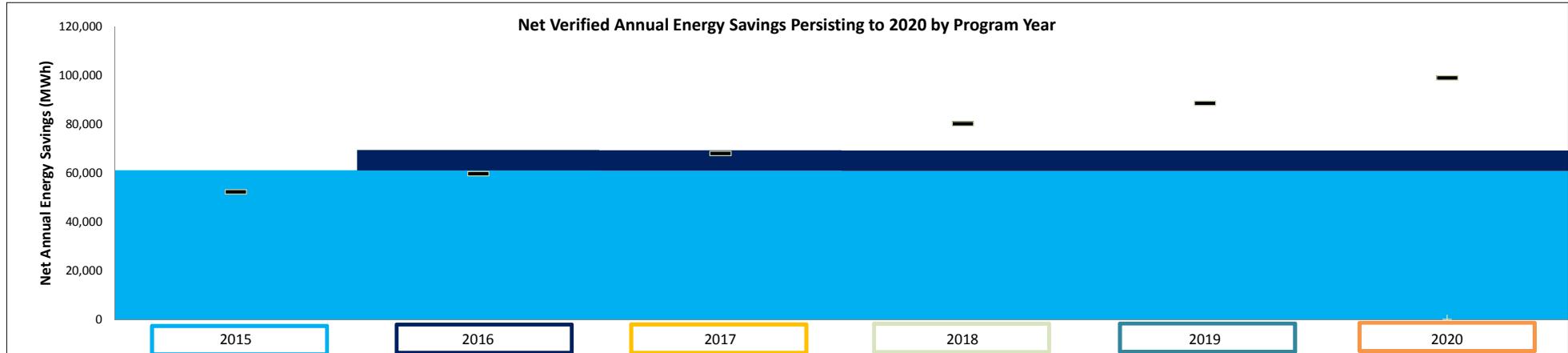
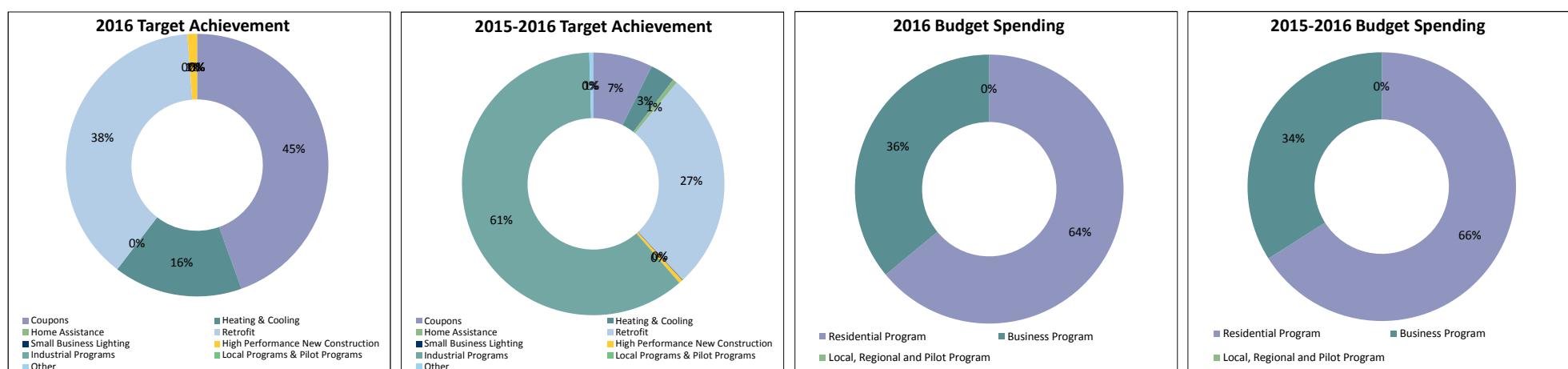
For: Guelph Hydro Electric Systems Inc.

### Results

#	Metric	2015 Verified Results	2016 Verified Results	2015-2016 Verified Results	Allocated Target / Budget	2015-2016 Progress versus Allocated Target / Budget	2015-2020 LDC CDM Plan Forecast	2015-2016 Progress versus 2015-2020 LDC CDM Plan Forecast	2016 LDC CDM Plan Forecast	2016 Progress versus 2016 LDC CDM Plan Forecast	2015-2016 LDC CDM Plan Forecast	2015-2016 Progress versus 2015-2016 LDC CDM Plan Forecast
1	Net Verified Annual Energy Savings Persisting to 2020	60,810 MWh	8,394 MWh	69,204 MWh	99,040 MWh	70 %	99,040 MWh	70 %	7,470 MWh	112 %	59,742 MWh	116 %
2	LDC Ranking - Net Verified Annual Energy Savings Persisting to 2020	8	24	9	13	5	13	7	22	35	11	41
3	Total Spending (\$)	\$ 381,504	\$ 1,377,941	\$ 1,759,445	\$ 24,920,625	7 %	\$ 23,290,403	8 %	\$ 3,782,779	36 %	\$ 4,255,743	41 %
4	LDC Ranking - Total Spending (\$)	11	25	20	14	62	15	60	16	63	16	61

### Annual Results

#	Metric	2015	2016	Total	#	Test	2015	2016	Total	#	Metric	Result
1	Net Verified Annual Energy Savings Persisting to 2020 (MWh)	60,810 MWh	8,394 MWh	69,204 MWh	1	Total Resource Cost Test (Ratio)	n/a	tbd	tbd	1	2015-2016 Incremental Net Verified 2020 Annual Energy Savings from Full Cost Recovery Programs	69,204 MWh
2	Net Verified Incremental First Year Energy Savings (MWh)	61,120 MWh	8,472 MWh	69,593 MWh	2	Program Administrator Cost Test (Ratio)	n/a	tbd	tbd	2	2015-2016 Incremental Net 2020 Annual Energy Savings from Full Cost Recovery Program per CDM Plan Forecast	59,742 MWh
3	Total Spending (\$)	\$ 381,504	\$ 1,377,941	\$ 1,759,445	3	Levelized Unit Energy Cost Result (¢/kWh)	n/a	tbd	tbd	3	FCR Progress (%)	116 %



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## LDC Rankings

#	LDC	Net Verified Annual Energy Savings Persisting to 2020																				Total Spending																					
		2015 Verified Results		Verified 2015 Adjustment Results		2016 Verified Results		2015-2016 Verified Results		Allocated Target		2015-2016 Progress versus Allocated Target		2015-2020 LDC CDM Plan Forecast		2015-2016 Progress versus 2015-2020 LDC CDM Plan Forecast		2016 LDC CDM Plan Forecast		2016 Progress versus 2016 LDC CDM Plan Forecast		2015-2016 LDC CDM Plan Forecast		2015-2016 Progress versus 2015-2016 LDC CDM Plan Forecast		2015 Verified Spending		Verified 2015 Adjustment Spending		Verified Adjusted 2015 Spending		2016 Verified Spending											
		Value (kWh)	LDC Ranking (#)	Value (kWh)	LDC Ranking (#)	Value (kWh)	LDC Ranking (#)	Value (%)	LDC Ranking (#)	Value (kWh)	LDC Ranking (#)	Value (%)	LDC Ranking (#)	Value (kWh)	LDC Ranking (#)	Value (%)	LDC Ranking (#)	Value (kWh)	LDC Ranking (#)	Value (%)	LDC Ranking (#)	Value (\$)	LDC Ranking (#)	Value (\$)	LDC Ranking (#)	Value (\$)	LDC Ranking (#)	Value (\$)	LDC Ranking (#)														
1	Algoma Power Inc.	1,031,011	57	25,818	1,056,828	58	1,285,402	52	2,342,230	56	7,510,000	54	31	45	11,100,760	47	21	66	816,284	54	157	16	1,777,226	53	132	34	39,320	22	59,951	99,271	20	344,836											
2	Atikokan Hydro Inc.	109,769	67	2,444	112,213	67	189,357	68	301,570	68	1,140,000	67	26	54	1,139,590	67	26	52	127,788	71	148	18	170,828	71	177	17	0	30	0	0	43	50,265											
3	Attawapiskat Power Corporation	35,822	70	2,343	38,165	70	0	69	38,165	70	510,000	70	7	71	556,816	69	7	71	209,344	66	0	69	209,344	68	18	70	5,119	29	0	5,119	41	1,340,938											
4	Bluewater Power Distribution Corporation	7,755,327	21	268,687	8,024,013	26	5,570,598	28	13,594,611	30	62,370,000	19	22	65	62,370,000	19	35	36	54,880,608	23	79	56	14,839,910	25	92	57	7,457,011	22	1,458,523	8,915,534	19	17,760,851	22	109	46								
5	Brantford Power Inc.	12,632,309	18	1,975,945	14,608,254	18	11,531,861	15	26,140,115	16	99,040,000	13	26	55	99,040,000	14	26	53	11,672,695	15	99	47	18,090,682	21	144	24	118,667	17	193,116	311,783	12	2,472,234											
6	Burlington Hydro Inc.	3,502,396	37	5,579,808	9,082,204	23	5,553,280	29	14,635,484	27	28,480,000	32	51	12	28,104,418	31	52	15	4,745,580	30	117	29	11,046,585	27	132	33	162,334	14	58,069	220,403	13	1,200,961											
7	Canadian Niagara Power Inc.	1,581,029	53	109,971	1,690,999	53	1,548,975	50	3,239,975	52	8,730,000	50	37	30	8,729,845	50	37	33	2,771,886	40	56	62	4,123,814	39	79	60	0	30	0	0	43	276,194											
8	Centre Wellington Hydro Ltd.	275,333	64	3,485	278,818	64	191,711	67	470,529	66	1,050,000	68	45	18	1,057,696	68	44	21	134,983	70	142	21	508,197	62	93	56	0	30	3,354	42	19,890	157,689	16	636,318									
9	Chapleau Public Utilities Corporation	1,637,947	51	385,929	2,023,876	49	2,194,349	44	4,218,225	47	16,860,000	39	25	58	16,860,000	38	25	57	2,047,097	42	107	38	3,784,720	41	111	43	0	30	0	0	43	61,223											
10	COLLUS PowerStream Corp.	120,443	66	19,234	139,677	66	730,806	57	870,483	62	1,790,000	65	49	15	1,790,697	65	49	18	241,547	65	303	2	320,602	66	272	9	1,662,553	49	583,829	2,246,382	48	3,064,492	45	137	29								
11	Cooperative Hydro Embro Inc.	17,245,241	13	60,025,983	77,271,224	5	14,252,795	12	91,524,019	7	100,950,000	12	91	4	106,219,451	11	86	4	10,054,813	17	142	22	67,208,866	8	136	30	0	30	0	0	43	435,083	13	2,916,887	1,508,332	5	5,508,332						
12	E.L.K. Energy Inc.	5,958,917	5	15,701,481	75,284,398	6	8,099,918	4	156,277,316	4	483,270,000	4	32	42	483,273,204	4	32	42	79,419,033	3	102	42	149,356,740	4	105	50	374,365	8	60,099	434,464	8	2,370,550	12	6,737	183,577	14	1,818,727						
13	Erie Thanes Powerlines Corporation	5,180,177	27	922,335	6,102,511	30	2,555,215	40	8,657,726	34	27,630,000	33	31	44	39,589,797	26	22	63	3,215,423	37	79	55	21,956,640	19	39	68	23,149	25	19,384	42,533	26	561,528	0	30	0	0	43	112,497	18	11,425,683	1,425,683	2	112,497
14	Espanola Regional Hydro Distribution Corporation	502,006	61	14,537	516,543	62	339,978	65	856,521	63	2,410,000	64	36	34	1,998,806	64	43	23	328,608	64	103	40	328,608	65	261	10	0	30	0	0	43	5,306	40	5,306	40	5	57,969						
15	Essex Powerlines Inc.	3,819,710	36	1,720,380	5,540,090	33	7,059,017	26	12,599,107	31	31,430,000	30	40	24	31,430,000	28	40	29	7,103,736	24	99	46	9,728,188	29	130	35	176,840	12	6,737	183,577	14	1,818,727	0	30	8,075	37	1,003,864						
16	Festival Hydro Inc.	4,822,853	30	2,088,958	6,911,811	27	9,417,074	21	16,328,885	26	34,650,000	28	47	17	29,884,429	30	55	10	4,336,821	31	217	7	4,336,821	36	377	5	0	30	0	0	43	0	30	0	0	43	0						
17	Fort Albany Power Corporation	29,906	71	1,956	31,862	71	0	69	31,862	71	340,000	71	9	69	373,387	71	9	70	197,235	68	0	69	197,235	70	16	71	0	30	0	0	43	0	30	0	0	43	92,580						
18	Fort Frances Power Corporation	6,959,582	23	3,141,790	10,101,372	22	9,312,088	22	19,413,460	22</																																	

LDC Ranking (#)	2015-2016 Verified Spending		Allocated Budget		2015-2016 Progress versus Allocated Budget		2015-2020 LDC CDM Plan Forecast		2015-2016 Progress versus 2015-2020 LDC CDM Plan Forecast		2016 LDC CDM Plan Forecast		2016 Progress versus 2016 LDC CDM Plan Forecast		2015-2016 LDC CDM Plan Forecast		2015-2016 Progress versus 2015-2016 LDC CDM Plan Forecast	
	Value (\$)	LDC Ranking (#)	Value (\$)	LDC Ranking (#)	Value (%)	LDC Ranking (#)	Value (\$)	LDC Ranking (#)	Value (%)	LDC Ranking (#)	Value (\$)	LDC Ranking (#)	Value (%)	LDC Ranking (#)	Value (\$)	LDC Ranking (#)	Value (%)	LDC Ranking (#)
47	444,108	42	2,107,963	53	21	3	3,449,717	45	13	24	683,154	43	50	51	737,814	43	60	37
66	50,265	66	311,330	67	16	9	374,405	70	13	19	56,766	71	89	8	56,772	71	89	10
69	0	69	148,832	70	0	69	1,846,142	54	0	69	386,748	52	0	69	386,748	52	0	69
26	1,346,056	27	15,838,687	20	8	56	15,838,687	20	8	54	2,579,261	19	52	48	2,584,380	21	52	50
22	1,593,432	24	14,048,458	22	11	30	11,591,730	23	14	16	2,207,285	23	71	29	2,236,285	23	71	28
12	2,784,017	13	25,825,521	13	11	37	25,890,159	12	11	38	3,893,532	15	63	35	4,877,008	12	57	43
27	1,421,364	26	7,355,555	33	19	5	6,338,440	35	22	4	1,589,930	29	76	22	1,643,473	29	86	12
49	276,194	50	2,252,724	51	12	26	2,252,724	51	12	29	651,826	44	42	59	651,826	44	42	59
68	23,244	68	298,764	68	8	60	298,764	71	8	59	57,618	69	35	64	57,618	69	40	62
33	794,008	31	4,446,841	39	18	7	4,446,841	39	18	8	842,348	39	76	21	1,118,451	35	71	30
64	61,223	65	525,743	65	12	28	525,743	68	12	31	78,227	68	78	16	78,227	68	78	17
42	435,083	43	4,273,057	41	10	41	4,273,057	41	10	42	504,219	48	86	10	504,219	48	86	13
11	2,916,887	11	25,873,071	12	11	32	23,678,815	14	12	28	4,939,935	10	59	38	4,939,935	11	59	39
8	5,508,332	8	122,499,403	4	4	68	123,761,401	4	4	68	20,565,231	4	27	66	23,154,175	4	24	66
14	2,805,014	12	14,695,867	21	19	6	13,843,474	21	20	6	2,447,799	20	97	5	3,048,339	19	92	6
13	2,542,346	15	38,421,929	10	7	64	38,421,929	10	7	64	11,447,244	8	21	67	11,447,244	8	22	67
39	604,060	37	7,104,954	34	9	55	7,020,999	33	9	52	1,352,450	30	42	60	1,524,690	30	40	63
65	63,275	63	685,489	64	9	48	759,788	67	8	57	141,751	63	41	61	141,751	64	45	58
18	2,002,304	17	8,532,573	30	23	1	8,421,412	30	24	3	1,871,165	25	97	4	2,199,199	25	91	8
29	1,011,939	29	8,768,149	28	12	29	8,768,149	28	12	32	1,323,777	32	76	20	1,323,777	33	76	18
69	0	69	98,990	71	0	69	1,682,107	58	0	69	345,251	55	0	69	345,251	55	0	69
60	92,580	60	1,109,758	60	8	59	1,119,638	63	8	58	124,580	66	74	23	124,601	66	74	23
24	1,538,180	25	9,672,498	26	16	10	9,117,459	27	17	10	1,701,015	28	84	12	1,701,015	28	90	9
48	327,426	48	2,894,613	47	11	31	2,894,612	47	11	33	633,209	45	46	57	633,209	45	52	52
25	1,759,447	20	24,920,625	14	7	62	23,290,402	15	8	60	3,782,778	16	36	63	4,255,743	16	41	61
35	604,017	38	8,387,497	31	7	61	8,387,497	31	7	62	1,310,004	33	46	58	1,458,606	31	41	60
62	81,272	62	843,903	63	10	45	843,903	66	10	45	122,762	67	58	39	122,762	67	66	36
5	12,936,258	5	84,830,304	6	15	12	84,830,304	6	15	13	14,826,453	6	68	32	17,664,321	5	73	25
67	41,957	67	394,750	66	11	38	394,750	69	11	39	56,806	70	74	24	56,806	70	74	24
52	189,396	53	2,139,160	52	9	51	2,139,160	52	9	50	399,100	51	47	56	399,100	51	47	57
7	7,818,006	7	66,798,531	7	12	27	66,798,530	7	12	30	14,629,427	7	50	52	14,994,829	7	52	49
1	46,513,930	2	338,355,409	2	14	16	341,857,197	1	14	17	62,293,684	2	72	27	63,838,190	2	73	26
4	13,858,927	4	105,242,155	5	13	19	105,242,156	5	13	21	17,214,251	5	78	17	17,591,400	6	79	16
41	467,510	41	3,680,241	44	13	23	3,680,241	44	13	25	851,157	37	55	45	851,157	38	55	48
69	0	69	155,966	69	0	69	1,741,263	56	0	69	358,436	54	0	69	358,436	54	0	69
59	124,005	59	1,407,448	57	9	52	1,688,937	57	7	61	220,129	59	56	43	220,150	59	56	46
38	584,540	39	8,674,286	29	7	63	8,631,873	29	7	63	1,716,251	27	33	65	1,716,251	27	34	65
20	1,754,249	21	27,710,719	11	6	65	27,710,719	11	6	65	4,634,072	14	38	62	4,634,072	15	38	64
50	265,025	51	3,077,834	45	9	53	3,077,834</											

## Progress Report

For: Guelph Hydro Electric Systems Inc.

#	Programs
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Participation														
Unit of Measure	Forecasted (#)						Verified (#)			Progress vs Forecast %				
	2015	2016	2017	2018	2019	2020	Total	2015	2015 Adjustment in 2016	Adjusted 2015	2016	Total		
<b>2015-2020 Conservation First Framework Programs</b>														
<b>Residential Province-Wide Programs</b>														
1 Save on Energy Coupon Program	Products	14,508	11,000	11,000	11,000	8,250	5,500	61,258	28,025	4,019	32,044	139,533	171,577	221% 1268% 673%
2 Save on Energy Heating & Cooling Program	Equipment	294	1,250	1,250	1,250	1,250	1,250	6,544	514	72	586	2,399	2,985	199% 192% 193%
3 Save on New Construction Program	Homes	102	100	100	50	100	50	502	0	1	1	0	1	1% 0% 0%
4 Save on Energy Home Assistance Program	Homes	0	350	500	350	100	10	1,310	0	0	0	0	0	0% 0% 0%
<b>Sub-total: Residential Province-Wide Programs</b>														
<b>Business Province-Wide Programs</b>														
5 Save on Energy Audit Funding Program	Projects	1	10	10	5	5	0	31	0	0	0	0	0	0% 0% 0%
6 Save on Energy Retrofit Program	Projects	0	91	80	48	93	47	359	0	14	14	114	128	125% 141%
7 Save on Energy Small Business Lighting Program	Projects	0	25	40	30	25	20	140	0	0	0	0	0	0% 0%
8 Save on Energy High Performance New Construction Program	Projects	0	4	4	4	4	4	20	0	2	2	2	4	50% 100%
9 Save on Energy Existing Building Commissioning Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
10 Save on Energy Process & Systems Upgrades Program	Projects	0	14	12	13	12	13	64	0	0	0	0	0	0% 0%
11 Save on Energy Manager Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
12 Save on Energy Monitoring & Targeting Program	Projects	0	2	2	2	2	2	10	0	0	0	0	0	0% 0%
13 Save on Energy Retrofit Program - P4P	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
14 Save on Energy Process & Systems Upgrades Program - P4P	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
<b>Sub-total: Business Province-Wide Programs</b>														
<b>Local &amp; Regional Programs</b>														
15 Adaptive Thermostat Local Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
16 Business Refrigeration Incentives Local Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
17 Conservation on the Coast Home Assistance Local Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
18 Conservation on the Coast Small Business Lighting Local Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
19 First Nations Conservation Local Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
20 High Efficiency Agricultural Pumping Local Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
21 Instant Savings Local Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
22 OPsaver Local Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
23 PUMPsaver Local Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
24 Social Benchmarking Local Program	Participants	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
<b>Sub-total: Local &amp; Regional Programs</b>														
<b>LDC Innovation Fund Pilot Programs</b>														
26 Air Source Heat Pump for Residential Water Heating Pilot Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
27 Building Optimization Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
28 Conservation Voltage Regulation Leveraging AMI Data Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
29 Demand Control Kitchen Ventilation Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
30 Direct Install - Hydronic Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
31 Direct Install - RTU Controls Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
32 Electronically Commutated Furnace Motor Pilot Program	Furnaces	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
33 Electronics Takeback Pilot Program	Products	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
34 Home Energy Assessment and Retrofit Pilot Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
35 HONI HP Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
36 P4P for Class B Office Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
37 Performance Based Conservation Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
38 Re-Invest Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
39 Residential Direct Install Pilot Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
40 Residential Direct Mail Pilot Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
41 Residential Ductless Heat Pump Pilot Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
42 Residential Install Pilot Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
43 Social Benchmarking Pilot Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
44 Solar Powered Attic Ventilation Pilot Program	Products	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
<b>Sub-total: LDC Innovation Fund Pilot Programs</b>														
<b>Program Enabled Savings</b>														
46 Save on Energy Retrofit Program Enabled Savings	Claims	-	-	-	-	-	-	0	1	1	0	1	-	-
47 Save on Energy High Performance New Construction Program Enabled Sa	Claims	-	-	-	-	-	-	0	0	0	0	0	-	-
48 Save on Energy Process & Systems Upgrades Program Enabled Savings	Claims	-	-	-	-	-	-	0	0	0	0	0	-	-
<b>Sub-total: Program Enabled Savings</b>														
<b>Other</b>														
49 Proposed Program or Pilot	Various	0	11,990	26,057	26,057	19,952	13,847	97,903	-	-	-	-	-	0% 0%
50 Unassigned Target	Various	0	0	0	2	2	2	6	-	-	-	-	-	0% 0%
<b>Sub-total: Other</b>														
<b>Sub-total: 2015-2020 Conservation First Framework</b>														
<b>Conservation Fund</b>														
51 EnerNOC Conservation Fund Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
52 Home Depot Home Appliance Market Uplift Conservation Fund Pilot Prog	Projects	0	0	0	0	0	0	0	0	65	65	65	-	-
53 Loblaw P4P Conservation Fund Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
54 Ontario Clean Water Agency P4P Conservation Fund Pilot Program	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0% 0%
55 Social Benchmarking Conservation Fund Pilot Program	Participants	0</td												

2020 Annual Peak Demand Savings				
2017	2018	2019	2020	Total
22	22	16	11	126
529	529	529	529	2,769
42	21	42	21	211
456	319	91	9	1,194
<b>1,049</b>	<b>891</b>	<b>678</b>	<b>570</b>	<b>4,300</b>
46	5	51	243	294
124	18	142	392	534
0	6	6	0	6
0	0	0	0	0
456	319	91	9	1,194
<b>1,049</b>	<b>891</b>	<b>678</b>	<b>570</b>	<b>4,300</b>
170	29	199	635	834
100%	70%	75%		

Verified (kW)				
2015	2015 Adjustment In 2016	Adjusted 2015	2016	Total
46	5	51	243	294
124	18	142	392	534
0	6	6	0	6
0	0	0	0	0
456	319	91	9	1,194
<b>1,049</b>	<b>891</b>	<b>678</b>	<b>570</b>	<b>4,300</b>
170	29	199	635	834
100%	70%	75%		

Net Incremental 2020 Annual Peak Demand Savings >

Progress (%)

Adjusted 2015

2016

Total

Adjusted 2015

2016

Total

Forecasted (kWh)

Verified (kWh)

Progress (%)

Adjusted 2015

2016

Total

2015

2016

2017

2018

2019

2020

Total

### 2020 Annual Peak Demand Savings

126

294

535%

1105%

155%

535%

77%

62%

67%

0%

0%

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Global First Year Peak Demand Savings												Participant Incentive Spending												LDC Administrative Expense Spending																	
						Verified (kW)						Forecasted (\$)						Verified (\$)						Forecasted (\$)						Verified (\$)						Forecasted (\$)					
2017		2018		2019		2020		Total	2015		2015 Adjustment in 2016		Adjusted 2015		2016		Total	2015		2015 Adjustment in 2016		Adjusted 2015		2016		Total	2015		2015 Adjustment in 2016		Adjusted 2015		2016		Total						
22	22	16	11	126		29	3	32	162	194	97%	736%	353%																												
938	938	938	938	4,910		274	40	314	546	860	143%	58%	74%																												
67	34	67	34	338		0	7	7	0	7	10%	0%	5%																												
456	319	91	9	1,194		0	0	0	0	0	0%	0%	0%																												
1,483	1,313	1,112	992	6,568		303	50	353	708	1,061	110%	53%	64%																												
132	66	66	0	409		0	0	0	0	0	0%	0%	0%																												
1,086	560	1,169	499	4,531		0	153	153	698	851	57%	70%																													
24	18	15	12	84		0	0	0	0	0	0%	0%	0%																												
135	135	135	135	675		0	28	28	31	59	23%	44%																													
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
55	816	55	816	1,852		0	0	0	0	0	0%	0%	0%																												
252	252	252	252	1,260		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
1,684	1,847	1,692	1,714	8,811		0	181	181	729	910	1392%	39%	49%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
0	0	0	0	0		0	0	0	0	0	0%	0%	0%																												
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Total	2015-2020 CFF LDC CDM Plan Allocated Budget (\$)	Progress versus Budget (%)
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Total Resource Cost - Cost Effectiveness Test - Gross Benefit										
Forecasted (\$)						Verified (\$)				Comparison (%)
2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	
609,976	155,881	161,383	163,746	124,917	84,148	1,300,051				

2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	Total
1,728,725	1,442,087	1,547,234	1,548,808	1,550,790	1,551,405	9,369,049				
166,615	171,778	181,737	91,717	185,298	92,993	890,138				
1,483,737	543,891	869,615	610,833	175,339	17,573	3,700,988				
3,989,053	2,313,637	2,759,969	2,415,104	2,036,344	1,746,119	15,260,226				

2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	Total
609,976	155,881	161,383	163,746	124,917	84,148	1,300,051				
1,728,725	1,442,087	1,547,234	1,548,808	1,550,790	1,551,405	9,369,049				
166,615	171,778	181,737	91,717	185,298	92,993	890,138				
1,483,737	543,891	869,615	610,833	175,339	17,573	3,700,988				
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3,989,053	2,313,637	2,759,969	2,415,104	2,036,344	1,746,119	15,260,226				

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166,615	171,778	181,737	91,717	185,298	92,993	890,138				
1,483,737	543,891	869,615	610,833	175,339	17,573	3,700,988				
3,989,053	2,313,637	2,759,969	2,415,104	2,036,344	1,746,119	15,260,226				

2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	Total
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166,615	171,778	181,737	91,717	185,298	92,993	890,138				
1,483,737	543,891	869,615	610,833	175,339	17,573	3,700,988				
3,989,053	2,313,637	2,759,969	2,415,104	2,036,344	1,746,119	15,260,226				

2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	Total
609,976	155,881	161,383	163,746	124,917	84,148	1,300,051				
1,728,725	1,442,087	1,547,234	1,548,808	1,550,790	1,551,405	9,369,049				
166,615	171,778	181,737	91,717	185,298	92,993	890,138				
1,483,737	543,891	869,615	610,833	175,339	17,573	3,700,988				
3,989,053	2,313,637	2,759,969	2,415,104	2,036,344	1,746,119	15,260,226				







## Progress Report

For: Province Wide

#	Programs
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Participation												
Unit of Measure	Forecasted (#)						Verified (#)			Progress vs Forecast %		
	2015	2016	2017	2018	2019	2020	Total	2015	2015 Adjustment in 2016	Adjusted 2015	2016	Total
<b>2015-2020 Conservation First Framework Programs</b>												
<b>Residential Province-Wide Programs</b>												
1 Save on Energy Coupon Program	173,427	4,709,977	3,691,273	2,595,701	2,511,758	2,076,898	15,759,034	1,207,534	198,108	1,405,642	17,053,287	18,458,929
2 Save on Energy Heating & Cooling Program	17,761	95,571	97,433	87,460	88,000	89,287	475,512	20,235	2,354	22,589	136,617	159,206
3 Save on Energy New Construction Program	428	3,015	4,928	5,166	5,281	5,305	24,123	0	6	6	130	136
4 Save on Energy Home Assistance Program	72,464	26,095	35,833	34,806	33,971	33,543	236,712	1,032	226	1,258	5,066	6,324
<b>Sub-total: Residential Province-Wide Programs</b>	<b>166,811,454</b>	<b>142,109,039</b>	<b>113,445,587</b>	<b>105,912,951</b>	<b>663,092,580</b>							
<b>Business Province-Wide Programs</b>												
5 Save on Energy Audit Funding Program	25	437	542	560	561	443	2,568	2	27	29	213	242
6 Save on Energy Retrofit Program	5,775	318,456	340,452	236,576	231,773	233,869	1,366,501	811	2,495	3,306	10,690	13,996
7 Save on Energy Small Business Lighting Program	1,026	31,408	64,832	51,045	46,597	46,532	241,440	0	0	0	2,421	2,421
8 Save on Energy High Performance New Construction Program	12	1,004	4,760	4,595	4,593	4,581	19,545	0	8	8	180	188
9 Save on Energy Existing Building Commissioning Program	0	21	33	29	29	29	141	0	0	0	0	0
10 Save on Energy Process & Systems Upgrades Program	15	716	756	726	715	692	3,620	0	0	1	1	0%
11 Save on Energy Manager Program	30	186	219	221	218	212	1,086	0	0	0	69	69
12 Save on Energy Monitoring & Targeting Program	0	20	27	19	17	19	102	0	0	0	0	0
13 Save on Energy Retrofit Program - P4P	0	0	0	0	0	0	0	0	61	61	472	533
14 Save on Energy Process & Systems Upgrades Program - P4P	0	0	0	0	0	0	0	0	0	3	3	
<b>Sub-total: Business Province-Wide Programs</b>	<b>20,550,440</b>	<b>166,811,454</b>	<b>142,109,039</b>	<b>113,445,587</b>	<b>105,912,951</b>	<b>663,092,580</b>						
<b>Local &amp; Regional Programs</b>												
15 Adaptive Thermostat Local Program	Homes	0	1,041	5,000	5,000	5,000	5,000	21,041	0	0	0	0
16 Business Refrigeration Incentives Local Program	Projects	0	4,198	27,032	18,688	17,573	16,360	83,850	0	0	0	305
17 Conservation on the Coast Home Assistance Local Program	Homes	0	2,494	2,408	1,671	1,328	1,165	9,066	0	0	0	0
18 Conservation on the Coast Small Business Lighting Local Program	Projects	0	432	0	0	0	108	540	0	0	0	0
19 First Nations Conservation Local Program	Homes	0	750	1,363	747	890	780	4,530	0	0	0	0
20 High Efficiency Agricultural Pumping Local Program	Projects	0	0	4,866	6,190	7,503	7,503	26,062	0	0	0	0
21 Instant Savings Local Program	Homes	0	0	8,687	7,687	600	500	17,474	0	0	0	0
22 OPSaver Local Program	Projects	0	0	1	2	2	2	7	0	0	0	0
23 PUMPSaver Local Program	Projects	0	16	269	168	134	67	654	0	0	0	5
24 Social Benchmarking Local Program	Participants	0	1,327,775	2,361,795	2,913,094	3,601,808	3,631,346	13,835,818	0	0	0	0
<b>Sub-total: Local &amp; Regional Programs</b>	<b>Homes</b>	<b>0</b>	<b>0</b>	<b>3,919</b>	<b>3,919</b>	<b>3,919</b>	<b>3,919</b>	<b>15,676</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>LDC Innovation Fund Pilot Programs</b>												
26 Air Source Heat Pump for Residential Water Heating Pilot Program	Homes	0	0	0	0	0	0	0	0	0	0	
27 Building Optimization Pilot Program	Projects	100	0	0	0	0	0	100	0	0	75	
28 Conservation Voltage Regulation Leveraging AMI Data Pilot Program	Projects	0	1	0	0	0	0	1	0	0	0	
29 Demand Control Kitchen Ventilation Pilot Program	Projects	1	0	0	0	0	0	1	0	0	0	
30 Direct Install - Hydronic Pilot Program	Projects	0	18	0	0	0	0	18	0	10	10	
31 Direct Install - RTU Controls Pilot Program	Projects	0	15	1,275	1,275	1,275	5,115	0	0	13	13	
32 Electronically Commutated Furnace Motor Pilot Program	Furnaces	0	300	60	0	0	0	360	0	0	0	
33 Electronics Takeback Pilot Program	Products	0	10,000	0	0	0	0	10,000	0	10,004	10,004	
34 Home Energy Assessment and Retrofit Pilot Program	Homes	0	1,034	1,034	1,034	1,034	5,170	0	0	0	0	
35 HONI HP Pilot Program	Projects	0	0	0	0	0	0	0	112	112		
36 P4P for Class B Office Pilot Program	Projects	0	5	0	0	0	0	5	0	0	100%	
37 Performance Based Conservation Pilot Program	Projects	0	101	101	107	26	26	361	0	0	0	
38 Re-Invest Pilot Program	Projects	1	0	1	0	0	0	2	0	0	0	
39 Residential Direct Install Pilot Program	Homes	0	0	0	0	0	0	0	322	322		
40 Residential Direct Mail Pilot Program	Homes	0	0	0	0	0	0	0	726	726		
41 Residential Ductless Heat Pump Pilot Program	Homes	0	0	0	0	0	0	0	0	0		
42 Residential Install Pilot Program	Homes	0	2	0	0	0	0	2	0	0	0	
43 Social Benchmarking Pilot Program	Homes	0	0	0	0	0	0	0	0	0		
44 Solar Powered Attic Ventilation Pilot Program	Products	0	1,500	1,010	2,354	3,354	3,354	11,572	0	0	1,026	
<b>Sub-total: LDC Innovation Fund Pilot Programs</b>	<b>Products</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>226,443</b>	<b>226,443</b>		
<b>Program Enabled Savings</b>												
46 Save on Energy Retrofit Program Enabled Savings	Claims	-	-	-	-	-	-	0	9	9	28	
47 Save on Energy High Performance New Construction Program Enabled Sa	Claims	-	-	-	-	-	-	0	0	0	0	
48 Save on Energy Process & Systems Upgrades Program Enabled Savings	Claims	-	-	-	-	-	-	0	0	1	1	
<b>Sub-total: Program Enabled Savings</b>	<b>Claims</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>37</b>	
<b>Other</b>												
49 Proposed Program or Pilot	Various	357	246,247	952,159	2,572,441	2,529,725	2,683,242	8,984,171	-	-	-	0%
50 Unassigned Target	Various	0	3,632	3,847	33,566	33,564	33,569	108,178	-	-	-	0%
<b>Sub-total: Other</b>	<b>Various</b>	<b>0</b>	<b>3,632</b>	<b>3,847</b>	<b>33,566</b>	<b>33,564</b>	<b>33,569</b>	<b>108,178</b>				
<b>Sub-total: 2015-2020 Conservation First Framework</b>												
<b>Conservation Fund</b>												



Investment - Energy							
2018			2019		2020		Total
Verified (%)				Comparison (%)			
2018	2019	2020	Total	2015	2016	2017	
112%	112%	110%		162%	162%	162%	140%
49%	49%	49%		56%	56%	56%	70%
62%	62%	62%		85%	85%	81%	
100%	100%	100%		100%	100%	100%	100%

### Net-to-Gross Adjustment - Peak Demand

Forecast (%)							
2015			2016		2017		Total
2015 Adjustment in 2016		Adjusted 2015		2016		Total	
2015	2016	2017	2018	2019	2020	Total	
130%	124%	116%	112%	112%	110%		
50%	52%	52%	52%	52%	52%		
63%	62%	62%	61%	61%	61%		
100%	100%	100%	100%	100%	100%		

### Net-to-Gross Adjustment - Energy

Forecast (%)							
2015			2016		2017		Total
2015 Adjustment in 2016		Adjusted 2015		2016		Total	
2015	2016	2017	2018	2019	2020	Total	
162%	162%	162%	140%				32% 16%
56%	56%	56%	70%				4% 21%
85%	85%	81%					22% 19%
100%	100%	100%					0% 0%

### Net-to-Gross Adjustment - Peak Demand

Realization Rate - Energy							
Verified (%)			2015		2016		Total
2015 Adjustment in 2016		Adjusted 2015		2016		Total	
2015	2016	2017	2018	2019	2020	Total	
100%	100%	100%	100%	167%			33% 16%
56%	56%	56%	72%				6% 20%
83%	83%	79%					20% 16%
100%	100%	100%	100%	100%			0% 0%

### Realization Rate - Energy

Realization Rate - Peak Demand							
Verified (%)			2015		2016		Total
2015 Adjustment in 2016		Adjusted 2015		2016		Total	
2015	2016	2017	2018	2019	2020	Total	
100%	99%	100%	100%	164%			100% 99%
100%	119%	102%	112%				6% 20%
14%	14%	20%					20% 16%
100%	100%	100%	100%	100%			0% 0%

### Realization Rate - Peak Demand

Gross Incremental First Year Energy Savings							
Forecasted (kWh)							
2015			2016		2017		Total
2015	2016	2017	2018	2019	2020	Total	
7,328,459	94,353,801	80,403,911	61,941,960	60,396,639	54,161,654	358,586,424	19,373,413
15,348,136	73,542,348	71,663,540	64,984,636	66,517,420	67,824,730	359,880,730	18,146,542
1,250,945	8,791,887	8,590,047	9,280,479	9,620,856	9,687,061	47,221,275	0
2,253,063	7,874,166	8,055,976	7,683,181	7,356,584	7,255,988	40,478,958	1,145,792

### Gross Incremental First Year Energy Savings

Verified (kWh)							
2015			2016		2017		Total
2015 Adjustment in 2016		Adjusted 2015		2016		Total	
2015	2016	2017	2018	2019	2020	Total	
26,180,603	184,562,202	168,713,394	143,890,256	143,891,499	138,929,433	806,157,387	38,665,747

### Gross Incremental First Year Energy Savings

Progress (%)							
2015			2016		2017		Total
2015 Adjustment in 2016		Adjusted 2015		2016		Total	
2015	2016	2017	2018	2019	2020	Total	
302%	324%	322%					302% 324% 322%
134%	147%	145%					134% 147% 145%
0%	42%	37%					0% 42% 37%
42%	52%	52%					42% 52% 52%
0%	0%	0%				</	



Fiduciary Services Provider Administrative Expense Spending					
(\$)			Verified (\$)		Progress (%)
2016	2017	2018	2019	2020	Total
2016	2017	2018	2019	2020	Total
2015	2015 Adjustment in 2016	Adjusted 2015	2016	Total	Adjusted 2015
					2016
					Total

Value Added Services Provider / Admin										
2,386,737	1,957,106	1,732,572	1,749,300	1,682,933	9,760,821	1,374,844	0	1,374,844	2,858,424	4,233,268
1,135,934	1,101,849	1,027,696	1,027,229	1,045,458	5,429,063	265,798	-1,690	264,108	1,019,096	1,283,204
101,073	98,767	104,627	92,137	102,198	506,962	0	0	0	0	0%
829,975	859,713	768,455	688,774	663,267	3,858,580	0	0	0	0	0%
<b>4,453,719</b>	<b>4,017,435</b>	<b>3,633,350</b>	<b>3,557,440</b>	<b>3,493,856</b>	<b>19,555,287</b>	<b>1,640,642</b>	<b>-1,690</b>	<b>1,638,952</b>	<b>3,877,520</b>	<b>5,516,472</b>
										<b>410% 87% 114%</b>
6,000	6,000	7,500	6,000	6,000	<b>31,500</b>	0	0	0	0	0%
319,557	248,671	190,281	190,281	190,281	<b>1,198,007</b>	0	0	0	0	0%
627,745	1,714,427	1,033,396	731,022	763,746	<b>4,870,336</b>	0	0	0	0	0%
35,000	40,000	35,000	30,000	25,000	<b>170,000</b>	0	0	0	0	0%
0	0	0	0	0	<b>0</b>	0	0	0	0	
9,834	436,297	5,000	15,000	5,000	<b>471,131</b>	0	0	0	0	0%
32,000	21,000	21,000	21,000	21,000	<b>116,000</b>	0	0	0	0	0%
0	0	0	0	0	<b>0</b>	0	0	0	0	
0	0	0	0	0	<b>0</b>	0	0	0	0	
0	0	0	0	0	<b>0</b>	0	0	0	0	
<b>1,030,136</b>	<b>2,466,395</b>	<b>1,292,177</b>	<b>993,303</b>	<b>1,011,027</b>	<b>6,856,974</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0%</b>

Total Admin		Sales Performance - Q3 2023													
Category	Sub-Category	North America			Europe			Asia-Pacific			Latin America			Total Sales	Total Profit
		Sales	Profit	Margin %	Sales	Profit	Margin %	Sales	Profit	Margin %	Sales	Profit	Margin %	Total Sales	Total Profit
212,632	9,862,773	8,978,237	8,699,642	8,507,318	8,448,103	45,707,709	1,577,290	157,526	1,734,816	8,854,114	10,588,930	143%	90%	96%	
495,011	6,155,575	6,164,474	5,596,476	5,571,049	5,594,897	29,577,482	466,132	88,583	554,715	4,209,666	4,764,384	112%	68%	72%	
90,639	1,059,306	982,244	1,070,566	1,089,754	1,143,245	5,441,752	16,829	19,272	36,101	1,078,795	1,114,896	40%	102%	97%	
208,207	5,115,353	5,450,628	5,352,600	5,320,686	5,285,159	26,732,633	149,262	100,017	249,279	2,637,793	2,887,072	120%	52%	54%	
<b>.006,493</b>	<b>22,193,007</b>	<b>21,581,581</b>	<b>20,718,284</b>	<b>20,488,807</b>	<b>20,471,404</b>	<b>107,459,576</b>	<b>2,209,513</b>	<b>365,398</b>	<b>2,574,911</b>	<b>16,780,372</b>	<b>19,355,283</b>	<b>128%</b>	<b>76%</b>	<b>80%</b>	
221,413	2,377,892	2,402,775	2,368,991	2,307,494	1,999,455	11,678,020	167,592	43,261	210,853	1,527,563	1,738,416	95%	64%	67%	
544,531	37,210,925	39,481,805	38,270,954	38,702,746	39,635,511	201,846,472	5,895,425	1,454,631	7,350,056	35,067,385	42,417,441	86%	94%	93%	
7,053	8,200,218	10,835,349	6,760,345	5,639,998	5,507,480	35,960,443	0	75,438	75,438	3,299,093	3,374,531	1070%	40%	41%	
167,307	3,063,287	3,333,870	3,341,649	3,535,112	3,106,509	16,547,734	148,817	41,141	189,958	2,893,601	3,083,595	114%	94%	95%	
0	572,571	519,848	493,949	557,893	502,210	2,646,417	0	3,333	3,333	526,893	530,226	92%	93%		
398,430	6,486,200	11,425,406	9,236,934	10,160,743	11,405,103	49,114,847	341,070	312,940	654,010	4,897,016	5,551,206	164%	75%	81%	
236,601	3,660,337	3,957,373	4,047,949	4,106,505	4,104,545	20,113,310	156,835	32,158	188,993	72,547	909,540	80%	20%	23%	
0	360,591	409,204	364,969	273,060	263,527	1,671,351	9,180	10,326	19,506	24,304	43,810	7%	12%		
0	0	0	0	0	0	0	0	0	0	0	0				
0	0	0	0	0	0	0	0	0	0	5	5				
<b>.575,335</b>	<b>61,932,021</b>	<b>72,365,630</b>	<b>64,887,740</b>	<b>65,283,497</b>	<b>66,524,371</b>	<b>340,568,594</b>	<b>6,718,919</b>	<b>1,973,228</b>	<b>8,692,147</b>	<b>48,956,407</b>	<b>57,648,554</b>	<b>91%</b>	<b>79%</b>	<b>81%</b>	

.954	29,077,887	22,999,350	18,501,460	17,737,402	16,215,288	108,810,261	5,423,284	157,526	5,580,810	36,745,296	4,232,106	130%	126%
.584	38,457,405	30,112,948	26,236,248	26,096,099	26,407,838	49,821,122	6,679,382	53,233	6,732,615	36,655,169	4,387,784	110%	105%
.889	3,339,237	3,187,538	3,401,050	3,506,759	3,538,414	17,146,887	16,829	19,272	36,101	1,710,327	1,746,428	21%	51%
3.06	10,611,945	10,627,009	10,339,563	10,166,548	10,081,312	52,581,773	902,420	100,017	1,002,437	7,747,149	8,479,586	133%	70%
.823	77,886,394	66,926,845	58,478,321	57,506,808	56,242,852	328,360,043	13,021,915	330,048	13,351,963	82,587,941	95,939,904	118%	106%
.882	4,431,162	4,991,375	5,058,838	4,998,378	4,061,943	23,829,578	174,012	43,261	217,273	2,070,678	2,287,951	75%	47%
.447	139,175,385	123,360,456	106,224,382	104,386,999	105,695,081	593,692,750	8,557,843	1,454,631	10,012,474	91,223,615	101,236,089	67%	66%
.060	17,990,941	30,517,854	20,283,951	15,013,801	14,695,984	98,509,591	0	75,438	75,438	5,333,344	5,408,782	1069%	30%
17.453,648	8,192,202	7,504,210	8,171,763	7,068,915	45,859,768	148,817	41,141	189,958	4,318,040	4,507,998	71%	29%	
0.1	1,181,196	1,495,943	1,311,544	1,375,434	1,319,805	6,684,692	0	3,333	3,333	593,533	596,866	50%	
.071	37,938,368	65,046,758	63,290,636	60,364,734	36,707,905	263,931,472	357,963	312,940	670,903	7,639,163	8,310,066	115%	20%
.601	8,674,904	9,807,774	9,974,664	9,863,235	9,343,298	47,900,467	156,835	32,158	188,993	2,125,612	2,314,605	80%	25%
0.1	1,073,791	1,484,904	965,669	798,760	864,227	5,187,351	9,180	10,326	19,506	56,120	75,626	5%	
0	0	0	0	0	0	0	0	0	0	272,373	272,373		
0	0	0	0	0	0	0	0	0	0	0	0	5	9
.248	225,120,005	244,897,266	214,613,894	204,973,107	179,757,149	1,085,595,669	9,404,650	1,973,228	11,377,878	113,632,484	125,010,362	70%	50%

0	0	0	0	0	0	0	0	0	0	0	0			
1,560	3,120	4,680	6,240	3,900	19,500	0	0	0	0	0	0	0%	0%	
23,740	54,548	53,346	52,314	1,228	185,176	0	0	0	0	0	0	0%	0%	
6,480	0	0	0	1,620	8,100	0	0	0	0	0	0	0%	0%	
0	0	0	0	0	0	0	0	0	0	0	0			
0	0	0	0	0	0	0	0	0	0	0	0			
0	0	0	0	0	0	0	0	0	0	0	0			
0	169,600	164,724	68,561	50,753	453,638	0	0	0	0	0	0			
800	13,445	8,403	6,723	3,361	32,732	0	0	0	0	0	0	0%	0%	
3,734,600	4,603,752	4,471,294	4,566,819	4,746,573	22,123,038	0	0	0	0	0	0	0%	0%	
0	0	0	0	0	0	0	0	0	0	0	0			
<b>3,767,180</b>	<b>4,844,465</b>	<b>4,702,447</b>	<b>4,700,657</b>	<b>4,807,435</b>	<b>22,822,184</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0%</b>	<b>0%</b>	

0	75,000	131,246	131,246	131,246	59,984	0	0	0	26,672	26,672	36%	36%	
173,152	500,324	1,889,474	859,740	850,502	813,560	5,086,754	0	3,789	3,789	404,753	408,542	2%	81% 61%
0	818,150	707,773	1,109,171	1,060,139	557,843	4,253,076	0	0	0	7,021	7,021	1%	1%
0	36,480	30,000	30,000	31,620	158,100	0	0	0	0	0	0	0%	0%
0	1,721,400	1,630,200	1,447,800	1,436,400	1,618,800	7,854,600	0	0	0	355,623	355,623	21%	21%
0	0	1,234,307	523,563	386,800	405,957	2,550,627	0	0	0	0	0	0	0
0	18,440	68,266	59,870	7,500	161,576	0	0	0	4,571	4,571	25%	25%	
0	91,219	219,572	522,886	426,723	408,915	1,977,505	0	0	0	0	0	0%	0%
0	236,886	392,726	391,393	390,129	390,970	1,802,104	0	0	0	100,075	100,075	42%	42%
472,036	6,508,508	11,604,344	9,268,248	11,198,884	11,279,879	51,331,899	0	1,745	1,745	9,214,899	9,216,644	0%	142% 115%
0	0	161,375	106,375	106,375	480,500	0	0	0	0	0	0	0	0
<b>645,188</b>	<b>10,006,407</b>	<b>18,377,475</b>	<b>14,450,292</b>	<b>16,024,698</b>	<b>15,752,665</b>	<b>76,256,725</b>	<b>0</b>	<b>5,534</b>	<b>5,534</b>	<b>10,113,614</b>	<b>10,119,148</b>	<b>0%</b>	<b>101%</b> <b>87%</b>

0	127,050	381,246	381,246	381,246	381,246	1,652,034	0	0	0	26,672	26,672	21%
152	1,577,132	6,530,566	3,214,383	3,069,282	2,833,961	17,398,476	0	3,789	3,789	541,536	545,325	2% 34%
0	1,032,356	920,925	1,312,184	1,258,982	559,966	5,084,413	0	0	0	7,021	7,021	1%
0	58,080	30,000	30,000	30,000	37,020	185,100	0	0	0	0	0	0%
0	2,846,400	3,674,700	2,743,300	2,946,400	2,963,800	15,174,600	0	0	0	355,623	355,623	12%
0	0	2,926,680	2,661,112	2,964,369	2,983,525	11,535,686	0	0	0	0	0	0%
0	18,440	192,945	173,299	14,250	13,125	412,059	0	0	0	4,571	4,571	25%
0	91,219	3,014,949	2,399,273	2,081,618	1,860,385	10,347,543	0	0	0	0	0	0%
0	341,414	2,148,786	1,488,931	1,268,159	829,985	6,077,275	0	0	0	100,075	100,075	29%
036	6,508,508	11,604,344	9,328,248	11,438,884	11,879,879	52,231,899	0	1,745	1,745	9,214,899	9,216,644	0% 142%
0	0	1,701,208	1,646,208	1,646,208	1,646,208	6,639,832	0	0	0	0	0	0%
188	12,600,599	33,126,349	26,278,283	27,099,398	25,989,100	126,738,917	0	5,534	5,534	10,250,397	10,255,931	0% 81%

0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
206,800	206,800	206,800	206,800	206,800	206,800	1,034,000	0	0	0	0	0	0%	0%
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0		
875	1,750	3,500	5,250	5,250	16,625	0	0	0	0	0	0	0%	0%
0	0	0	0	0	0	0	0	0	0	0	0		
<b>207,675</b>	<b>208,550</b>	<b>210,300</b>	<b>212,050</b>	<b>212,050</b>	<b>1,050,625</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0%</b>	<b>0%</b>

-	-	-	-	-	-	-	-	-	-	-	-	
,400	-	-	-	-	-	29,400	-	-	-	-	-	0%
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
,400	-	-	-	-	-	29,400	-	-	-	-	-	0%

Total	2015-2020 CFF LDC CDM Plan Allocated Budget (\$)	Progress versus Budget (%)
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127%		
106%		
50%		
75%		
108%		

### Total Resource Cost - Cost Effectiveness Test - Gross Benefit

Forecasted (\$)							Verified (\$)			Comparison (%)		
2015	2016	2017	2018	2019	2020	Total	2015	2015 Adjustment in 2016	Adjusted 2015	2016	Total	
13,888,906	55,936,893	45,664,627	32,378,971	32,325,725	28,091,427	208,286,549						
15,427,568	56,591,759	57,099,433	57,078,133	59,513,745	60,989,965	306,700,603						
380,702	3,580,632	4,028,904	4,314,051	4,634,260	4,648,236	21,586,785						
4,295,870	9,261,406	9,603,804	9,208,810	8,705,264	8,587,714	49,662,868						
33,993,046	125,370,690	116,396,768	102,979,965	105,178,994	102,317,342	586,236,805						

### Total 2015-2020 CFF LDC CDM Plan Budget Spending

Spending Group	2015	2016	2017	2018	2019	2020	Total	2015	2015 Adjustment in 2016	Adjusted 2015	2016	Total
	13,888,906	55,936,893	45,664,627	32,378,971	32,325,725	28,091,427	208,286,549					

127%		
106%		
50%		
75%		
108%		

48%		
66%		
30%		
30%		
50%		
22%		
26%		
7%		
52%		

21%		
31%		
1%		
0%		
12%		
25%		
0%		
29%		
115%		
72%		

0%												
150,119	769,385	777,324	786,959	791,413	3,275,200							
0	1,717,070	9,380,945	5,653,258	5,564,910	5,164,244	27,480,227						
0	0	0	0	0	0	0						
0	0	0	0	0	0	0						

0%												
572,699	0	0	0	0	0	0						
0	213,494	0	0	0	0	0	213,494					
0	0	0	0	0	0	0						
0	508,942	0	0	0	0	0	508,942					

0%												
0	80,333	6,644,309	6,675,900	6,720,301	6,737,733	26,858,576						
0	0	0	0	0	0	0						
0	0	0	0	0	0	0						
0	0	0	0	0	0	0						

0%												
0	278,814	333,908	193,238	54,551	55,326	915,837						
0	247,553	0	439,380	0	0	686,933						
0	0	0	0	0	0	0						
0	0	0	0	0	0	0						

0%												
0	820,252	3,255,744	7,704,124	9,843,293	10,049,103	10,078,184	41,750,700					
-	-	-	-	-	-	-						
-	-	-	-	-	-	-						
-	-	-	-	-	-	-						

0%												
1,760,010	19,751,002	32,550,856	45,642,515	35,163,523	36,294,388	171,162,294						
0	1,816,555	1,919,025	61,681,895	62,178,657	62,483,635	190,079,767						
1,760,010	21,567,557	34,469,881	107,324,410	97,342,180	98,778,023	361,242,061						
118,110,793	666,643,630	740,639,916	686,231,881	626,837,002	600,032,231	3,438,495,453						

0%												
9,536	0	0	0	0	0	9,536						
0	0	0	0	0	0	0						
2,473,468	0	0	0	0	0	2,473,468						
0</td												

## Total Resource Cost - Cost Effectiveness Test - Net Benefit &gt;

Forecasted (x)							Verified (x)							Comparison (%)						
2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	2018	2019	Total	2015	2016	2017	2018	2019	Total		
-3.04	-5.46	-13.51	11.63	11.67	5.01	-29.64														
2.32	1.81	1.91	2.02	2.10	2.16	2.01														
3.06	2.24	2.36	2.28	2.34	2.43	2.34														
2.47	1.31	1.33	1.32	1.31	1.33	1.38														
<b>8.59</b>	<b>4.22</b>	<b>3.29</b>	<b>2.58</b>	<b>2.65</b>	<b>2.43</b>	<b>3.07</b>														

## Total Resource Cost - Cost Effectiveness Test - Net Benefit Ratio &gt;

Forecasted (\$)							Verified (\$)							Comparison (%)						
2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	2018	2019	Total	2015	2016	2017	2018	2019	Total		
12,081,454	48,641,015	39,708,618	28,160,089	28,113,864	24,431,913	<b>181,136,953</b>														
13,425,059	49,220,944	49,663,173	49,645,102	51,763,177	53,046,915	<b>266,764,370</b>														
331,301	3,112,014	3,500,949	3,746,992	4,030,226	4,042,382	<b>18,763,864</b>														
3,736,890	8,054,918	8,352,836	8,009,369	7,571,511	7,469,297	<b>43,194,821</b>														
<b>29,574,704</b>	<b>109,028,891</b>	<b>101,225,576</b>	<b>89,561,552</b>	<b>91,478,778</b>	<b>88,990,507</b>	<b>509,860,008</b>														

## Total Resource Cost - Cost Effectiveness Test - Net Benefit Ratio &gt;

Forecasted (\$)							Verified (\$)							Comparison (%)						
2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	2018	2019	Total	2015	2016	2017	2018	2019	Total		
344,196	4,409,198	5,189,769	5,228,995	5,438,844	5,260,336	<b>25,871,338</b>														
46,323,697	313,998,840	266,821,822	213,549,780	214,999,263	222,562,799	<b>1,278,256,203</b>														
1,530,678	14,615,526	27,561,270	17,929,473	13,885,697	14,172,395	<b>89,695,039</b>														
860,365	18,469,390	11,195,739	10,332,124	13,335,916	9,702,364	<b>64,095,898</b>														
0	360,674	1,511,197	1,063,222	1,083,275	1,093,186	<b>5,111,554</b>														
20,100,658	94,469,011	158,256,706	178,229,848	109,423,047	77,760,458	<b>638,739,728</b>														
668,689	8,835,995	7,892,472	8,097,799	8,211,584	7,917,752	<b>41,624,276</b>														
0	593,939	1,928,792	727,845	466,558	508,971	<b>4,226,105</b>														
0	0	0	0	0	0	<b>0</b>														
0	0	0	0	0	0	<b>0</b>														
69,828,283	<b>456,252,573</b>	<b>480,357,942</b>	<b>435,359,086</b>	<b>366,844,184</b>	<b>338,978,071</b>	<b>2,147,620,139</b>														

## Total Resource Cost - Cost Effectiveness Test - Net Benefit Ratio &gt;

Forecasted (\$)							Verified (\$)							Comparison (%)						
2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	2018	2019	Total	2015	2016	2017	2018	2019	Total		
134,289	2,401,664	5,227,843	5,240,682	2,272,843	2,101,504	<b>11,635,937</b>														
9,979,426	105,832,160	94,149,819	77,903,752	75,075,974	75,060,573	<b>438,001,704</b>														
7,055	12,897,512	20,046,994	13,334,392	10,699,758	10,567,566	<b>67,553,277</b>														
225,075	12,803,768	6,005,708	5,768,990	6,313,011	5,169,928	<b>36,086,480</b>														
0	646,589	916,317	690,922	677,928	666,283	<b>3,598,039</b>														
73,711	24,321,205	43,507,710	45,117,669	26,633,021	21,093,926	<b>160,747,242</b>														
43,490	5,280,519	5,553,625	5,531,244	5,463,218	5,242,720	<b>27,114,816</b>														
0	654,191	1,063,032	6																	





## Savings Persistence Report

For: Guelph Hydro Electric Systems Inc.

#	Program / Initiative Name	Implementation Year	Gross Verified Annual Energy Savings (kWh)																				
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
2015	1 Save on Energy Coupon Program	2015	448,681	445,006	445,006	445,006	445,006	445,006	445,006	444,723	444,723	444,723	419,261	417,696	407,837	407,837	406,793	109,211	109,211	109,211	109,211	0	
	2 Save on Energy Heating & Cooling Program	2015	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	533,459	519,877	0
	3 Save on Energy New Construction Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4 Save on Energy Home Assistance Program	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 Save on Energy Audit Funding Program	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6 Save on Energy Retrofit Program	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7 Direct Install - Lighting Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8 Save on Energy High Performance New Construction Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9 Save on Energy Existing Building Commissioning Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10 Save on Energy Process & Systems Upgrades Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11 Save on Energy Energy Manager Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12 Save on Energy Monitoring & Targeting Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13 Save on Energy Retrofit Program - P4P	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14 Save on Energy Process & Systems Upgrades Program - P4P	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15 Adaptive Thermostat Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16 Business Refrigeration Incentives Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17 Direct Install - Small Business Assistance Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18 Conservation on the Coast Small Businesses Lighting Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19 First Nations Conservation Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20 High Efficiency Agricultural Pumping Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21 Instant Savings Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22 Oplusaver Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23 PUMPavver Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24 Social Benchmarking Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25 THESL Swimming Pool Efficiency Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26 Air Source Heat Pump for Residential Water Heating Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27 Building Optimization Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28 Conservation Voltage Regulation Leveraging AMI Data Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	29 Direct Install - Small Business Lighting Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	30 Direct Install - Hydraulic Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	31 Direct Install - RTU Controls Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	32 Electronically Communicated Furnace Motor Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	33 Electronics Takeback Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	34 Home Energy Assessment and Retrofit Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	35 HONI HP Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36 P4P for Class B Office Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	37 Performance Based Conservation Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	38 Re-Invest Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	39 Residential Direct Install Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40 Residential Direct Install Pilot Program - Energy Manager Initiative	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	41 Residential Direct Install Pilot Program - Monitoring and Targeting Initiative	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	42 Residential Direct Install Pilot Program - P4P	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	43 Social Benchmarking Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	44 Solar Powered Attic Ventilation Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	45 Truckload Event Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	46 Save on Energy Retrofit Program Enabled Savings	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	47 Save on Energy High Performance New Construction Program Enabled Sav	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	48 Save on Energy Process & Systems Upgrades Program Enabled																						





Net Verified Peak Demand Savings > Based on a 10-year life cycle of a 100% efficient PV system.

## Savings Persistence Report

For: Province Wide

#	Program / Initiative Name	Implementation Year	Gross Verified Annual Energy Savings (kWh)																			
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
2015	1) Save on Energy Coupon Program	2015	19,373,413	19,214,167	19,214,167	19,214,167	19,214,167	19,214,167	19,202,817	19,202,817	18,048,534	17,940,820	17,584,423	17,546,597	4,696,725	4,696,725	4,696,725	0	0	0	0	
	2) Save on Energy Heating & Cooling Program	2015	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	18,146,542	17,413,031	0	0	
	3) Save on Energy New Construction Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4) Save on Energy Home Assistance Program	2015	1,145,792	1,023,422	1,000,567	977,712	975,736	975,736	970,008	969,057	788,716	779,815	763,934	744,614	389,256	384,167	384,167	384,167	384,167	384,167	384,167	
	5) Save on Energy Audit Funding Program	2015	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	165,936	
	6) Save on Energy Retrofit Program	2015	25,397,914	25,397,914	25,280,473	25,280,473	25,280,473	25,279,832	24,042,465	24,042,465	23,799,119	19,737,629	9,748,502	9,551,289	4,209,149	4,094,390	4,094,390	2,909,742	928,605	928,605	928,605	0
	7) Direct Install - Lighting Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8) Save on Energy High Performance New Construction Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9) Save on Energy Existing Building Commissioning Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10) Save on Energy Process & Systems Upgrades Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11) Save on Energy Energy Manager Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12) Save on Energy Monitoring & Targeting Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	13) Save on Energy Retrofit Program - P4P	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14) Save on Energy Process & Systems Upgrades Program - P4P	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	15) Adaptive Thermostat Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	16) Business Refrigeration Incentives Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	17) Conservation on the Coast Small Businesses Lighting Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18) First Nations Conservation Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	19) High Efficiency Agricultural Pumping Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20) Instant Savings Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21) OPlayer Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	22) PUMPavate Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	23) Social Benchmarking Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24) THESL Swimming Pool Efficiency Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	25) Air Source Heat Pump for Residential Water Heating Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	26) Building Optimization Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	27) Conservation Voltage Regulation Leveraging AMI Data Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	28) Demand Response Program - Project Incentive Initiative	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	29) Energy Audit Incentive Initiative	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	30) Instant Savings Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	31) OPlayer Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	32) Residential Direct Install Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	33) Social Benchmarking Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	34) THESL Takeback Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	35) Home Energy Assessment and Retrofit Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	36) P4P for Class B Office Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	37) Performance Based Conservation Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	38) Re-Invest Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	39) Residential Direct Install Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	40) Residential Direct Install Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	41) Residential Direct Install Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	42) Residential Direct Install Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	43) Social Benchmarking Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	44) THESL Swimming Pool Efficiency Local Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	45) Air Source Heat Pump for Residential Water Heating Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	46) Building Optimization Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	47) Conservation Voltage Regulation Leveraging AMI Data Pilot Program	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	48) Demand Response Program - Project Incentive Initiative	2015	-	-	-	-																







# Final Verified 2016 Annual LDC CDM Program Results Report

## Methodology

### General

All results are at the end-user level (not including transmission and distribution losses) and reported to IESO by April 15, 2017. 2015 results are based on projects completed between January 1, 2015 and December 31, 2015 and reported to the IESO by March 31, 2016. 2015 Adjustment results are based on projects completed between January 1, 2015 and December 31, 2015 and reported to the IESO between April 1, 2016 and April 15, 2017. 2016 results are based on projects completed between January 1, 2016 and December 31, 2016 and reported to the IESO by April 15, 2017.

Legacy Framework results are based on projects begun prior to an LDC's transition to the Conservation First Framework program and completed by December 31, 2015. Conservation First Framework results are based on projects begun after an LDC's transition to the Conservation First Framework program and projects transitioned to the Conservation First Framework through a valid Extension Agreement or eligible Programs.

### Savings Calculations

#	Project Type	Attributing Savings to LDCs
1	Prescriptive Measures and Projects Programs	Gross Reported Savings = Activity * Per Unit Assumption Savings Gross Verified Savings = Gross Reported Savings * Realization Rate Net Verified Savings = Gross Verified 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)
2	Engineered and Custom Projects / Programs	Gross Reported Savings = Reported Savings Gross Verified Savings = Gross Reported Savings * Realization Rate Net Verified Savings = Gross Verified 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)
3	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 annual effect of energy savings.

### Cost Determination

Costs are determined and allocated to the period based on the date the cost has been reported to the IESO regardless of when the cost was incurred.

E.g. if an LDC reports by the December 2016 IESO Reporting Period: 1) program savings; 2) Participant Incentives; and 3) Administrative Expenses associated with a 2016 completed project, then: a) the savings; b) expenditures; and c) corresponding cost effectiveness; are attributed to the 2016 program year.

However if the same is reported in or after the January 2017 IESO Reporting Period: i) the savings will be attributed to the 2016 program year; ii) the expenditures will be attributed to the 2017 program year and will not appear in the 2016 Verified Results Report; but iii) the project's Participant Incentives will be used to calculate 2016 Cost Effectiveness;

### 2015-2020 Conservation First Framework

#	Program	Attributing Savings to LDCs	Project List Date	Savings 'start' Date	Calculating Resource Savings
1	Save on Energy Coupon Program	LDC-coded coupons directly attributed to LDC; Otherwise results are allocated based on Consumer Program Allocation Reference Table.	April 15, 2017	Savings are considered to begin in the year in which the coupon was redeemed.	
2	Save on Energy Heating & Cooling Program	Results directly attributed to LDC based on customer applications and postal code.	April 15, 2017	Savings are considered to begin in the year that the installation occurred.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
3	Save on Energy New Construction Program	Results are directly attributed to LDC based on LDC identified in LDC Report	April 15, 2017	Savings are considered to begin in the year of the project completion date.	
4	Save on Energy Home Assistance Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year in which the measures were installed.	
5	Save on Energy Audit Funding Program	Projects are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	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).
6	Save on Energy Retrofit Program	Projects are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year of the actual project completion date as reported in the LDC Report	Peak demand and energy savings are determined by the total savings for a given project as reported in the ICON system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
7	Save on Energy Small Business Lighting Program	Results are directly attributed to LDC based on the LDC specified on the work order.	April 15, 2017	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 at the program level (net).
8	Save on Energy High Performance New Construction Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	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 in the CDM LDC Report Template. Preliminary unverified net savings are calculated by multiplying reported savings by 2014 Net-to-gross ratios and realization rates.
9	Save on Energy Existing Building Commissioning Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year of the actual project completion date.	
10	Save on Energy Process and Systems Upgrades Program	Results are directly attributed to LDC based on LDC identified in application.	April 15, 2017	Savings are considered to begin in the year in which the project was in-service.	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).
11	Save on Energy Energy Manager Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year in which the project was completed by the energy manager.	
12	Save on Energy Monitoring and Targeting Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year in which the incentive project was completed.	

### 2011-2014+2015 Extension Legacy Framework

#	Initiative	Attributing Savings to LDCs	Project List Date	Savings 'start' Date	Calculating Resource Savings
1	saveONenergy Appliance Retirement Initiative	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.	April 15, 2017	Savings are considered to begin in the year the appliance is picked up.	
2	saveONenergy Conservation Instant Coupon Booklet	LDC-coded coupons directly attributed to LDC. Otherwise results are allocated based on average of 2008 & 2009 residential throughput.	April 15, 2017	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.
3	saveONenergy Bi-Annual Retailer Event	Results are allocated based on average of 2008 & 2009 residential throughput.	April 15, 2017	Savings are considered to begin in the year in which the event occurs.	
4	saveONenergy HVAC Incentives	Results directly attributed to LDC based on customer applications and postal code.	April 15, 2017	Savings are considered to begin in the year that the installation occurred.	
5	saveONenergy Residential New Construction	Results are directly attributed to LDC based on LDC identified in application in the ICON system.	April 15, 2017	Savings are considered to begin in the year of the project completion date.	
6	saveONenergy Energy Audit	Projects are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	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).
7	saveONenergy Efficiency: Equipment Replacement	Results are directly attributed to LDC based on LDC identified at the facility level in the ICON system.  Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see page for Building type to Sector mapping.	April 15, 2017	Savings are considered to begin in the year of the actual project completion date in the ICON system.	Peak demand and energy savings are determined by the total savings for a given project as reported in the ICON system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).  Additional Note: project counts were derived by filtering out invalid statuses (e.g. Post-Project Submission - Payment denied by LDC) and only including projects with an "Actual Project Completion Date" in 2014
8	saveONenergy Direct Installed Lighting	Results are directly attributed to LDC based on the LDC specified on the work order.	April 15, 2017	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 at the program level (net).
9	saveONenergy New Construction and Major Renovation Incentive	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	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).
10	saveONenergy Existing Building Commissioning Incentive	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	Savings are considered to begin in the year in which the incentive project was completed.	
11	saveONenergy Process & System Upgrades	Results are directly attributed to LDC based on LDC identified in application.	April 15, 2017	Savings are considered to begin in the year in which the project was completed 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).
12	saveONenergy Energy Manager	Results are directly attributed to LDC based on LDC identified in application.	April 15, 2017	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.	
13	saveONenergy Monitoring & Targeting	Results are directly attributed to LDC based on LDC identified in application.	April 15, 2017	Savings are considered to begin in the year in which the incentive project was completed.	Peak demand and energy savings are determined using the verified measure level per unit assumption 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 (net).
14	saveONenergy Home Assistance Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017	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.
15	Aboriginal Conservation Program	Results are directly attributed to LDC based on LDC identified in the application.	April 15, 2017		
16	Program Enabled Savings		April 15, 2017		

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## Consumer Program Allocation Reference Table

#	Local Distribution Company	Allocation (%)
1	Algoma Power Inc.	0.18
2	Atikokan Hydro Inc.	0.02
3	Attawapiskat Power Corporation	0.01
4	Bluewater Power Distribution Corporation	0.62
5	Brantford Power Inc.	0.67
6	Burlington Hydro Inc.	1.34
7	Canadian Niagara Power Inc.	0.35
8	Centre Wellington Hydro Ltd.	0.11
9	Chapleau Public Utilities Corporation	0.03
10	COLLUS PowerStream Corp.	0.25
11	Cooperative Hydro Embrun Inc.	0.06
12	E.L.K. Energy Inc.	0.25
13	Energy+ Inc.	1.12
14	Ensource Hydro Mississauga Inc.	4.64
15	Entegrus Powerlines Inc.	0.70
16	EnWin Utilities Ltd.	1.49
17	Erie Thame Powerlines Corporation	0.32
18	Espanola Regional Hydro Distribution Corporation	0.06
19	Essex Powerlines Corporation	0.61
20	Festival Hydro Inc.	0.32
21	Fort Albany Power Corporation	0.01
22	Fort Frances Power Corporation	0.09
23	Greater Sudbury Hydro Inc.	0.80
24	Grimsby Power Incorporated	0.18
25	Guelph Hydro Electric Systems Inc.	0.85
26	Halton Hills Hydro Inc.	0.59
27	Hearst Power Distribution Company Limited	0.05
28	Horizon Utilities Corporation	3.72
29	Hydro 2000 Inc.	0.04
30	Hydro Hawkesbury Inc.	0.15
31	Hydro One Brampton Networks Inc.	3.59
32	Hydro One Networks Inc.	27.29
33	Hydro Ottawa Limited	6.61
34	InnPower Corporation	0.33
35	Kashechewan Power Corporation	0.02
36	Kenora Hydro Electric Corporation Ltd.	0.09
37	Kingston Hydro Corporation	0.29
38	Kitchener-Wilmot Hydro Inc.	1.51
39	Lakefront Utilities Inc.	0.11
40	Lakeland Power Distribution Ltd.	0.23
41	London Hydro Inc.	2.61
42	Midland Power Utility Corporation	0.10
43	Milton Hydro Distribution Inc.	0.66
44	Newmarket-Tay Power Distribution Ltd.	0.60
45	Niagara Peninsula Energy Inc.	0.82
46	Niagara-on-the-Lake Hydro Inc.	0.13
47	North Bay Hydro Distribution Limited	0.42
48	Northern Ontario Wires Inc.	0.09
49	Oakville Hydro Electricity Distribution Inc.	1.51
50	Orangerville Hydro Limited	0.20
51	Orillia Power Distribution Corporation	0.22
52	Oshawa PUC Networks Inc.	1.48
53	Ottawa River Power Corporation	0.12
54	Peterborough Distribution Incorporated	0.46
55	PowerStream Inc.	7.82
56	PUC Distribution Inc.	0.65
57	Renfrew Hydro Inc.	0.05
58	Rideau St. Lawrence Distribution Inc.	0.07
59	Sioux Lookout Hydro Inc.	0.08
60	St. Thomas Energy Inc.	0.28
61	Thunder Bay Hydro Electricity Distribution Inc.	0.82
62	Tillsonburg Hydro Inc.	0.12
63	Toronto Hydro-Electric System Limited	15.57
64	Veridian Connections Inc.	2.39
65	Wasaga Distribution Inc.	0.18
66	Waterloo North Hydro Inc.	0.96
67	Welland Hydro-Electric System Corp.	0.31
68	Wellington North Power Inc.	0.06
69	West Coast Huron Energy Inc.	0.06
70	Westario Power Inc.	0.37
71	Whitby Hydro Electric Corporation	1.12
Total		100.00

# Final Verified 2016 Annual LDC CDM Program Results Report

## Glossary

#	Term	Definition
<b>Reporting Terms</b>		
1	Forecast	An LDC's forecast of program activity, savings, net-to-gross adjustments, expenditures and cost effectiveness as indicated in each LDC's submitted CDM Plan Cost Effectiveness Tools. Forecasts at the province wide level are the sum of all LDCs' forecasts.
2	Reported	Program activity savings and expenditures as determined by the LDC. For savings: 1) for prescriptive projects/programs: calculating quantity x prescriptive savings assumptions; and 2) for engineered or custom program projects/programs: calculated using prescribed methodologies.
3	Verified	The IESO's annually EM&V assessed program activity, savings, net-to-gross, expenditures and cost effectiveness. Preliminary Verified results are provided by June 1st of each year and Final Verified results are provided by July 1st of each year.
4	Adjustment	Verified results that were achieved in previous years but were not provided in a previous years' Annual Verified Results Report.
5	Progress or Comparison	An assessment of Actual results versus Verified results.
<b>Framework Terms</b>		
6	2011-2014+2015 Extension Legacy Framework	Programs in market from 2011-2015 resulting from the April 23, 2010 GEA CDM Ministerial Directive and funded separately from 2015-2020 Conservation First Framework Programs but whose savings in 2015 are attributed towards the 2015-2020 Conservation First Framework target.
7	2015-2020 Conservation First Framework	Programs in market from 2015-2020 resulting from the March 31, 2014 CFF Ministerial Directive and funded separately from 2011-2014+2015 Extension Legacy Framework Programs.
8	LDC Innovation Fund	A source of funding under the 2015-2020 Conservation First Framework separate from LDC CDM Plan Budgets that the IESO maintains to support LDC-led program design and market testing of new initiatives. Savings from LDC Innovation Fund pilot programs contribute to the LDCs savings targets based on the LDC service territory the pilot program is delivered in.
9	Conservation Fund	A source of funding external to the 2015-2020 Conservation First Framework that provides financial support for innovative electricity conservation technologies, practices, research, and pilot programs. Savings from Conservation Fund pilot programs contribute to the LDCs savings targets based on the LDC service territory the pilot program is delivered in.
<b>Programs Terms</b>		
10	Program	A Conservation & Demand Management offering focusing on a particular opportunity or customer end-use (e.g. Coupon; or Retrofit;) from the 2015-2020 Conservation First Framework.
11	Province-Wide Program	Programs available to all LDCs to deliver and that are consistent across the province
12	Regional Program	Programs designed by LDCs to serve their region and approved by the IESO.
13	Local Program	Programs designed by LDCs to serve their communities and approved by the IESO.
14	Pilot Program	A program pilot that may achieve energy or demand savings and is funded separately from an LDC's CDM Plan Budget.
15	Initiative	A Conservation & Demand Management offering focusing on a particular opportunity or customer end-use (e.g. Fridge & Freezer Pickup) from the 2011-2014+2015 Extension Legacy Framework.
<b>Activity Terms</b>		
16	Participation	A measure of the level of program participation, such as number of projects, homes, equipment, etc..
17	Unit of Measure	For a specific initiative the relevant type of participation acquired in the market place (e.g. appliances picked up; coupon products installed; HVAC equipment installed; audits performed; or projects completed).
<b>Savings Terms</b>		
18	Energy Savings	Energy savings attributable to conservation and demand management activities.
19	Peak Demand Savings	Peak Demand savings attributable to conservation and demand management activities, as determined by the IESO's EM&V Protocols.
20	Incremental Savings	The energy or peak demand savings newly attributable to activity procured in a particular reporting period based on when the savings are considered to 'start'. Savings attributed to activity performed or completed in 2016 are presented as 2016 savings.
21	First Year Savings	The energy or peak demand savings that occur in the year it was achieved (includes resource savings from only new program activity).
22	Annual Savings	The energy or peak demand savings that occur in a given year (includes resource savings from new program activity and resource savings persisting from previous years).
23	Gross Savings	The energy or peak demand savings that have been reported based on a conservation and demand management program's participation tracking.
24	Net Savings	The energy or peak demand savings attributable to conservation and demand management activities, net of free-riders, spill over, etc.
25	Realization Rate	A comparison of originally reported savings and observed or measured savings that adjusts reported savings to arrive at verified savings. Accounts for discrepancies such as audited measure counts; adjustment for connected demand savings to peak demand savings; etc.
26	Net-to-Gross Adjustment	The ratio of net savings to gross savings, which takes into account factors such as free-ridership, spillover, etc.
27	Free-ridership	The percentage of participants who would have implemented the program measure or practice in the absence of the program.
28	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.
29	Allocated Target	Each LDC's assigned portion of the Province's 7 TWh Net 2020 Annual Energy Savings Target of the 2015-2020 Conservation First Framework.
<b>Costs Terms</b>		
30	Participant Incentive	Costs incurred in the delivery of a program related to incenting participants to perform peak demand or energy savings.
31	LDC Administrative Expense	Costs reported by the LDC in the delivery of a program related to labour, marketing, third-party expenses, etc.
32	IESO Value Added Services Cost	Costs incurred by the IESO's Value Added Service Provider related to associated programs (Coupons and Heating & Cooling), and charged to the LDC in which the programs's activity took place.
33	Total Administrative Expense	The sum of LDC Administrative Expense and IESO Value Added Services Cost.
34	Delivery Cost	The sum of Total Administrative Expenses and Participant Incentives. All costs are presented based on the period reported by LDCs to the IESO, not necessarily associated with reported activity. E.g. if an LDC reports by the December 2016 IESO Reporting Period: 1) program savings; 2) Participant incentives; and 3) Administrative Expenses associated with a 2016 completed project, then: a) the savings; b) expenditures; and c) corresponding cost effectiveness; are attributed to the 2016 program year. However if the same is reported in or after the January 2017 IESO Reporting Period: i) the savings will be attributed to the 2016 program year; ii) the expenditures will be attributed to the 2017 program year and will not appear in the 2016 Verified Results Report; but iii) the project's Participant Incentives will be used to calculate 2016 Cost Effectiveness;
35	Allocated Budget	Each LDC's assigned portion of the Province's \$ 1.835 billion CDM Plan Budget of the 2015-2020 Conservation First Framework.
<b>Cost Effectiveness Terms</b>		
36	Total Resource Cost Cost Effectiveness Test	A cost effectiveness test that measures the net cost of CDM based on the total costs of the program including both participants' and utility's costs.
37	Program Administrator Cost Cost Effectiveness Test	A cost effectiveness test that measures the net cost of CDM based on costs incurred by the program administrator, including incentive costs and excluding net costs incurred by the participant.
38	Levelized Unit Energy Cost Cost Effectiveness Test	A cost effectiveness test that normalizes the costs incurred by the program administrator per unit of energy or demand reduced.