

Collus PowerStream 43 Stewart Road Collingwood ON L9Y 4M7

Phone: (705) 445-1800

Operations Department Fax: (705) 445-0791 Finance Department Fax: (705) 445-8267

www.colluspowerstream.ca

September 29, 2014

Board Secretary
Ontario Energy Board
PO Box 2319
27th Floor 2300 Yonge Street
Toronto ON M4P 1E4

Attn: Kirsten Walli

RE: EB-2010-0215 – 2013 CDM Annual Report – Collus PowerStream

Following please find the 2013 CDM Annual Report prepared by Collus PowerStream.

The Conservation and Demand Management Code for Electricity Distributors requires a distributor to file an annual report with the Board. The following Annual Report is therefore prepared accordingly and covers the period January 1, 2013 to December 31, 2013.

The 2013 CDM Annual Report for Collus PowerStream also includes an overview document which relates to the experience of the CHEC Member LDC's which Collus PowerStream works in collaboration with to deliver CDM programs.

Yours truly

Ed Houghton, CET, MAATO President & CEO, Collus PowerStream

Encl

Cornerstone Hydro Electric Concepts (CHEC)

Combined Conservation and Demand Management Annual Report 2013

EB-2010-0215

Collaboration for Conservation































Cornerstone Hydro Electric Concepts Association Inc.

Executive Summary:

This report represents the 2013 annual reporting as required by the CDM Code for the CHEC Association LDCs. The results and comments provided in this section are based on the combined experience of the CHEC LDCs.

The report format contains an overview section relating the combined experience of CHEC LDCs and thirteen addendums containing the individual LDC Annual CDM Reports. The overview section provides a summary of the overall target achieved, conditions impacting strategy progress and tracking of the CDM Strategy.

In the third year of the program the residential portfolio continued to perform below expectations. The residential program experienced improved kW performance over the previous year due to the HVAC initiative and limited kW contribution from the peaksaverPLUS® program. Energy contribution to target on an incremental basis was slightly better than the year before. However, with one less year to accumulate savings the contribution to overall target is less than the previous year. The lower than expected performance in the residential market place has an impact on all of the LDCs. The negative effect continues to be most pronounced in LDCs with primarily residential loads.

Customers continue to show interest in the Demand Response (DR) initiative with a net gain in DR contribution to target. This helps to offset the loss of customers who participated in the first year of the program but exited in subsequent years. DR is seen as a crucial element to achieve the demand target and the limitation of DR in the fourth year of the program will impact on the ability of LDCs to add significantly to the kW target contributions.

The Commercial and Institutional program continues to be a significant contributor to targets achieved. This portfolio accounts for 49% of the kWh achieved to the end of 2013. The retrofit initiative along with the direct install initiative continues to provide savings. The Small Business Lighting initiative is approaching saturation while the retrofit initiative continues to experience good traction although the incremental kWh savings is less than the previous year.

CHEC's Roving Energy Manager (REM) was engaged late in 2012. This position is seen as a key element in successful approaches to industry and commercial customers. The REM has been instrumental in supporting CHEC LDCs and their commercial customers to identify potential savings and to implement programs. The REM along with LDC staff has been active across the service areas and this activity is expected to continue throughout 2014.





Cornerstone Hydro Electric Concepts Association Inc.

The combined strategy results (Table 4) indicate a decline in the percentage of target to be achieved by the member LDCs. Based on the two year results, the projected target completion was 87.6% of demand and 99% of the energy targets. After three years, the projected target completion is 64% of demand and 93.4% of the energy targets. The individual reports filed by the member LDCs outline their continued commitment and expectations for the remaining year.





Cornerstone Hydro Electric Concepts Association Inc.

1.0 Introduction:

Cornerstone Hydro Electric Concepts Association (CHEC) is an association of thirteen (13) Local Distribution Companies (LDCs) (in 2013). The CHEC member LDCs have prepared this Conservation and Demand Management (CDM) Annual Report 2013 as required by the Conservation and Demand Management Code for Electricity Distributors. The report is a collaborative initiative of CHEC member LDCs. The report is consistent with the combined CDM Strategy filed in November 2010 and includes Orillia Power as of 2012 reporting.

1.1 <u>Distributors Included in CHEC Association CDM Strategy:</u>

CHEC LDCs work collaboratively to meet regulatory and operational requirements. The Association facilitates LDCs' abilities to address initiatives in a cost effective manner, sharing information, expertise and resources. The development of a collaborative CDM Strategy and the subsequent CDM Annual Report is consistent with the CHEC philosophy of working together to meet the needs of the member LDCs and to work effectively for the customers served.

The LDCs, all members of CHEC, covered under this CDM Annual Report include:

- Centre Wellington Hydro Ltd.
- COLLUS PowerStream (COLLUS Power)
- Innisfil Hydro Distribution Systems Limited
- Lakefront Utilities Inc.
- Lakeland Power Distribution Ltd.
- Midland Power Utility Corporation
- Orangeville Hydro Limited
- Orillia Power Distribution Corporation
- Parry Sound Corporation
- Rideau St. Lawrence Distribution Inc.
- Wasaga Distribution Inc.
- Wellington North Power Inc.
- West Coast Huron Energy Inc. (Goderich Hydro).

CHEC LDCs have worked collaboratively and as part of the Association since 2000. The CHEC Combined Annual CDM Report includes an overview section and separate addendums for each LDC. The LDC addendum format follows the provincial template.

2.0 CDM Targets for Electricity Demand (MW) and Electricity Consumption (GWh):

The CDM target for each LDC has been established by the Ontario Energy Board (OEB) utilizing a methodology developed by the Ontario Power Authority (OPA). The targets were later revised and incorporated into the LDC license requirements. Table 1 illustrates the final targets for each LDC.

Table 1 – OEB Defined Targets

	MW	GWH
LDC	Revised Target	Revised Target
Centre Wellington Hydro	1.64	7.81
COLLUS Power	3.14	14.97
Innisfil Hydro	2.5	9.2
Lakefront Utilities	2.77	13.59
Lakeland Power	2.32	10.18
Midland Power	2.39	10.82
Orangeville Hydro	2.78	11.82
Orillia Power	3.07	15.05
Parry Sound Power	0.74	4.16
Rideau St. Lawrence	1.22	5.1
Wasaga Distribution	1.34	4.01
Wellington North Power	0.93	4.52
West Coast Huron Energy	0.88	8.28
Total	25.72	119.51

3.0 Progress toward Achieving Target

Table 2 and Table 3 provide summaries of the progress made by CHEC LDCs in 2013 towards the combined demand and energy targets. The combined results are the summation for all member LDCs and represent reported savings as per the OPA. The individual savings for each LDC are represented in the associated Addendum.

Table 2 Combined Net Demand Savings at End User Level Including DR Contribution (2011 adjusted to add Orillia Power)

Note: Table includes DR

Implementation Davied		Annual (MW)								
Implementation Period	2011	2012	2013	2014						
2011 - Verified	4.89	4.89	4.89	4.89						
2012 - Verified		1.87	1.87	1.87						
2013 - Verified			3.42	3.42						
2014										
Verified Net Annual Peak Dema	nd Savings	in 2014 (incl	uding DR):	10.18						
Combined CHEC 2	014 Annua	I CDM Capac	ity Target:	25.72						
Verified Portion of Peak Demand	:o 2013 (%):	39.58%								
Combined CHEC Strat	53.04%									
Variance from Strategy Milestone	es:			-13.46%						

Contribution toward the peak target after three years of program delivery continues to lag behind the strategy targets. Actual demand savings vary from the milestones set in the LDC Strategies by 13.46%. At the end of 2012 the variance from the milestones set in the LDC Strategies was 4.5%. The increase in variance, by 9% in 2013, provides an indication of the challenges in obtaining demand oriented projects.

To remain consistent with the CDM Strategies filed and the associated milestones DR savings are included in the reporting. Currently LDCs include 3,400 kW of DR in the strategies with approximately 2,974 kW of DR obtained to date. This represents 11.6% of the 2014 target. The target amount of DR has been reduced in the revised strategy presented in Table 4.

The combined strategies have been adjusted (2011, 2012 and 2013 adjustments) to predict a shortfall of 9.3 MW which represents 64% achievement of the peak target.

Table 3 Combined Net Energy Savings at End User Level

Implementation Period		Annual (MWh)							
	2011	2012	2013	2014	2011-2014				
2011 - Verified	10,250	10,250	10,250	10,250	41,000				
2012 - Verified		10,058	10,058	10,058	30,174				
2013 - Verified			9,907	9,907	19,814				
2014									
Verif	ied Net Cu	mulative Ene	ergy Savings	2011-2014:	90,988				
Combined CHEC 2011-2014 Cumulative CDM Energy Target:									
Verified Portion of Cumulative Energy Target Achieved to 2013 (%):									
Combined CHEC Strategy, Milestone submitted for 2011, 2012 & 2013									
Variance from Strategy Milestone	es:				-16.59%				

Energy savings continue to be strong with annual incremental savings remaining consistent in the range of 10 MWh. While significant, the cumulative energy savings is 16.6% below milestones set in the LDCs Strategies to the end of 2013.

Currently the CHEC LDCs have achieved 76.1% of the combined energy target. This is slightly behind the provincial average of 85.7%. LDCs' performance varies due to local parameters which are addressed in the addendums. Revision of the strategies has reduced the expected energy achievement to 93.4% of the combined target.

4.0 General Conditions Impacting Strategy Performance:

This section outlines issues which have impacted on the progress of Strategies and some of the general lessons learned over the third year of the program. While there have been many successes there remain many challenges within the CDM portfolio and the delivery of programs. Overall the delivery mechanism continues to be improved. Unfortunately opportunities lost early in the program timeframe are difficult to make up later in the program.

4.1 Portfolio Reduction and OEB Approved Programs:

The overall portfolio reduction as a result of midstream and OEB approved programs not being developed has reduced the overall potential to achieve target. The requirement that local

programs not duplicate any provincial program represented a significant barrier for development of localized programs. Removing these programs from the strategy mix reduced the achievable target by 9.5% for demand and 3% for energy. The requirement for success in the provincial programs to offset this shortfall has been difficult to achieve. The impact of these initiatives not being in market is twofold. First any program savings proposed in the strategies from these initiatives are not realized. Secondly the lack of programs reduces the overall profile of the CDM initiatives. The additional initiatives, with the associated advertisement and engagement, would have reinforced all initiatives and the customers' overall awareness of the conservation effort.

4.2 Roving Energy Manager:

CHEC LDCs collaborative application for a Roving Energy Manager (REM) provided an excellent resource to assist LDCs and their customers to develop more and deeper reaching energy savings programs. The REM has been active across the CHEC LDC service territories and truly represents a "roving energy manager". The REM has consistently met program requirements for target and this contract has been subsequently renewed twice. As noted in previous reports, the delay in funding approval impacted on the initial start of the REM. An earlier start would have seen more projects implemented within the current framework, recognizing that the lead time for commercial and industrial projects can be extensive. The delay at the beginning has pushed out the final implementation of many projects.

4.3 Residential Program Performance:

The residential programs performed above the 2012 levels in both demand and energy however, below the projected milestone in the strategies. The residential program experienced contributions from the low income program in 2013 well above the level experienced in previous years. The low income initiative, while not meeting full program expectations, has provided a significant kWh contribution. The peak contribution however, falls below expectations. Within this program the ability to obtain "deep installs" along with the associated savings, has proved to be challenging.

Provincial advertising was more prominent in 2013 and as such this was seen as important to the residential program to drive customer awareness. While LDCs can complete local marketing the widespread campaigns initiated by the OPA are seen as critical for overall success.

The Appliance Retirement program has been in the market for some time and the incremental kWh contributed by the program has been steadily declining. The number of eligible appliances has been significantly impacted by several years of successful delivery.

It is believed that the residential program would benefit from general conservation education programs. There has been limited activity in this sector, led by LDCs, due to the funding and focus on target. To maintain the traction in this sector both advertising and education may better position the programs offered.

For LDCs with a large residential proportion of load, the significance of weaker performance in the residential program impacts heavily on the overall ability to achieve targets. A number of CHEC LDCs are struggling due to the residential program lagging behind in projected savings.

4.4 Peaksaver Plus:

The residential demand response initiative (*peaksaver* PLUS®) has been identified in most strategies as being a key contributor to obtaining significant peak target from the residential sector. This program has fallen well behind expected performance.

CHEC LDCs released an RFP for a supplier of service and technology in late 2012. Issues with respect to launching the program moved the in-market date later than anticipated including postponement into 2014 awaiting communication capabilities for some LDCs. Further complicating the issue was the need to terminate installation as colder weather approached to avoid completing the initial test installations when the AC would not be operating. These issues have impacted negatively on the contribution to target from the initiative.

4.5 Relationships:

Over the third year of the program there continue to be improvements in relationships within the sector. The relationship with the OPA improved with continued outreach by the OPA and response to LDC enquiries. Customer relationships continue to grow. Contacts within the commercial, industrial and municipal sector continue to be fostered and supported with provincial and local materials. The CHEC Roving Energy Manager and LDC CDM staffs have been instrumental in developing these relationships.

Some confusion with the Energy Efficiency Service Providers (EESPs) occurred during the year. While the initiative to contact on a sector specific basis was recognized there was confusion as to the roles between the LDC and the energy managers. From a customer perspective the "face of conservation" was confused by multiple parties making calls.

With the continued delivery of CDM, staff not directly related to the CDM portfolio has become more aware of the involvement of their LDC in CDM. This heightened awareness better positions the LDCs to continue to promote and deliver programs within their service territory.

4.6 Commercial Programs:

The Small Business Lighting initiative has been in market for some time and is approaching saturation. The program has been well received by customers as illustrated by the participation numbers. Continued approach to those who did not participate is generally being met with limited returns.

The evaluation and introduction of new technologies for inclusion in the various commercial programs assists with the target achievement. The inclusion of LED lamps provides opportunity within this program for added savings. While the work of the C&I Working Group has introduced some very positive changes, the application process continues to be challenging for customers in the retrofit program.

4.8 DR 3 Contribution:

The third year of the program continued to see interest in DR 3. Furthermore, the Roving Energy Manager has assisted in identifying opportunities at a variety of customer installations. Within the strategies filed by CHEC LDCs, DR 3 accounted for approximately 3.4 MW of demand. In evaluating the demand contribution of various programs it becomes apparent that DR 3 is required to obtain the demand reduction. Limited retrofit initiatives have been focused on demand as most have been focused on energy reduction. DR 3 will continue to be promoted to assist obtaining future demand savings although the ability to add to the 2014 demand target is limited due to the March 2014 cancellation of the program.

5.0 Revised CDM Strategy:

The Addendums for each LDC contain a tracking of the CDM Strategy. A number of the LDCs have modified their strategies based on their results to the end of 2013. The combined strategy for the 13 CHEC LDCs is summarized in Table 4.

The revised Strategies anticipate a total of 16.4 MW and 107.5 GWh to be saved by December 2014. These projected savings represent 64% and 93.4% respectively of the demand and energy targets for the 13 LDCs. This is a reduction of expected target achievements from those previously noted in the 2012 Annual Report.

CHEC LDCs remain committed to CDM and obtaining kW and kWh savings. Results to date however indicate that expectations for full target achievement may not be realistic within the provincial programs.

The specific activities associated with each LDC are outlined in the attached Addendums.

Table 4 – CHEC CDM Combined Strategy:

Summary	Annual Mil	estone - Conf	tribution to 2	2014 Target																
,		inal Strategy ection	Actual 20	11 Results		sed Strategy jection	Actual 201	2 Results		sed Strategy ection	Actual 20	13 Results		sed Strategy jection	Actual 2	014 Results		tal Projected uction	Contribu	tion to Target
Category - Consumer	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Provincial Programs																				
Appliance Retirement	92	2,124,285	74	2,102,677	77	1,124,617	72	1,216,018	58	732,121	61	532,404	63	380,084	0	0	270	4,231,182	207	3,851,098
Instant Discounts (Rebates)	28	2,893,444	58	3,942,109	28	1,787,544	33	1,713,721	19	927,638	31	1,008,998	20	459,212	0	0	141	7,124,040	121	6,664,828
HVAC Discounts (Rebates)	205	1,286,117	410	3,173,721	336	1,588,507	280	1,514,923	222	764,551	287	1,047,261	289	607,656	0	0	1,267	6,343,561	978	5,735,905
Demand Response	607	3,846,518	130	338	130	338	0	0	1,018	2,977,503	146	0	832	255,731	0	0	1,108	256,068	276	338
Midstream Incentives	3	82,243	0	0	0	0	0	0	3	19,945	0	0	2	6,207	0	0	2	6,207	0	0
New Construction	25	250,419	0	0	1	6,486	0	1,232	28	131,323	1	24,771	24	106,557	0	0	26	132,560	1	26,003
Low Income	0	0	0	0	12	186,345	13	387,814	157	1,652,205	47	866,648	116	798,077	0	0	177	2,052,539	60	1,254,462
Provincial Consumer Total	960	10,483,027	672	9,218,844	584	4,693,837	398	4,833,707	1,504	7,205,286	573	3,480,082	1,347	2,613,524	0	0	2,990	20,146,158	1,643	17,532,634
OEB Approved Programs																				
General Consumer	36	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
Low Income	5	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
OEB Approved Programs Total	41	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0
- 11																				
Consumer Program Total	1.001	10,483,027	672	9,218,844	584	4,693,837	398	4,833,707	1,519	7,205,286	573	3,480,082	1,347	2,613,524	0	0	2,990	20,146,158	1,643	17,532,634
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	Annual Mil	estone - Cont	tribution to 2	2014 Target																
		inal Strategy			2012 Revi	sed Strategy			2013 Revis	sed Strategy			2014 Revi	sed Strategy			Revised To	tal Projected		
		ection	Actual 20	11 Results		jection	Actual 201	2 Results		ection	Actual 20	113 Results		jection	Actual 2	014 Results		uction	Contribu	tion to Target
Category - Commercial &																				
Institutional	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Provincial Programs																				
rofits – Medium and Large Buildings	987	7,342,065	266	7,087,736	1,712	9,875,529	957	12,473,024	1,443	7,290,139	756	8,360,055	1,760	9,345,757	0	0	3,740	37,266,573	1,979	27,920,815
Existing Building Retrofits – Small																				
Buildings	835	16,571,055	450	5,852,737	576	7,733,791	634	7,346,407	1,259	8,097,565	441	3,260,774	1,004	2,937,019	0	0	2,529	19,396,937	1,525	16,459,918
Small Commercial Demand																				
Response	19	39,713	56	12	19	1,070	0	0	39	58,569	15	148,792	56	291,415	0	0	127	440,218	71	148,804
Demand Response 1 & 3	0	37	526	7,522	120	15,376	-341	19,359	375	60,075	194	6,270	357	13,684	0	0	736	46,835	379	33,150
Provincial Commercial & Inst.																				
Total	1,841	23,952,871	1,298	12,948,007	2,427	17,625,765	1,250	19,838,789	3,117	15,506,348	1,406	11,775,891	3,178	12,587,875	0	0	7,132	57,150,563	3,954	44,562,688
OEB Approved Programs																				
Retrofits	79	0	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0
New Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OEB Approved Programs Total	79	0	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0

Cornerstone Hydro Electric Concepts Association

	Annual Mil	lestone - Con	tribution to 2	2014 Target																
		inal Strategy jection	Actual 20	11 Results		sed Strategy jection	Actual 201	2 Results		sed Strategy ection	Actual 20	13 Results		sed Strategy jection	Actual 2	014 Results		otal Projected luction	Contribut	tion to Target
Category - Industrial	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Program Name																				
Industrial Accelerator	55	1,284,928	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industrial Equipment Replacement	431	10,125,877	53	2,938,736	436	5,576,430	0	0	381	3,361,143	0	0	183	1,026,032	0	0	236	3,964,769	53	2,938,736
Demand Response 1	0	7	0	0	0	0	0	0	0	4	0	0	1	1	0	0	1	1	0	0
Demand Response 3	24	524,494	1,549	90,925	21	436,972	66	52,874	410	678	980	48,065	75	775	0	0	2,670	192,638	2,595	191,863
Provincial Industrial Total	511	11,935,306	1,602	3,029,661	457	6,013,402	66	52,874	791	3,361,825	980	48,065	259	1,026,809	0	0	2,907	4,157,408	2,648	3,130,599
OEB Approved Programs																				
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
В	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OEB Approved Programs Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industrial Total	511	11,935,306	1,602	3,029,661	457	6,013,402	66	52,874	791	3,361,825	980	48,065	259	1,026,809	0	0	2,907	4,157,408	2,648	3,130,599
	Note: Sui	ms above do	not include	Orillia Powe	r's projecte	d or actuals as	Strategy not i	temized by ir	ntiatives											
		inal Strategy jection	Actual 20	11 Results		sed Strategy jection	Actual 201	2 Results		sed Strategy ection	Actual 20	13 Results		sed Strategy jection	Actual 2	014 Results		otal Projected luction	Contribut	tion to Target
CDM Strategy Total	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Program Total	3,952	48,501,204	4,319	29,548,017	3,958	32,093,004	1,845	28,356,940	5,726	30,193,459	3,255	17,058,356	6,383	20,658,209	0	0	15,859	95,894,130	9,419	74,963,314
2010 Contribution	0	0	577	11,452,775	6	29,450	32	307,683	0	0	0	0	0	0	0	0	438	8,540,239	609	11,760,458
Adjustments to Verified Final Results	0	0	0	0	0	0	-12	1,508,758	0	0	167	2,755,323	0	0	0	0	147	3,055,595	155	4,264,081
Adjusted Total	3,952	48,501,204	4,896	41,000,793	3,964	32,122,454	1,865	30,173,381	5,726	30,193,459	3,422	19,813,679	6,383	20,658,209	0	0	16,444	107,489,963	10,183	90,987,852
															Target	to Achieve	25,720	119,510,000		
				10,250,198				10,057,794				9,906,839								
	9	inal Strategy jection	Actual 20	11 Results		sed Strategy jection	Actual 201	2 Results		sed Strategy ection	Actual 20	13 Results		sed Strategy jection	Actual 2	014 Results		otal Projected luction	Contribut	tion to Target
Percentage of Target	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
	15.4%	40.6%	19.0%	34.3%	15.4%	26.9%	7.3%	25.2%	22.3%	25.3%	13.3%	16.6%	24.8%	17.3%	0.0%	0.0%	64%	93.4%	39.6%	76.1%
	Note: Tota	l Projection is t	ormed of 20	11, 2012 & 20	13 Actuals ac	Ided with 2014	Revised Strateg	gy Projection												

6.0 Addendums:

Centre Wellington Hydro	Addendum 1
COLLUS Power Stream	Addendum 2
Innisfil Hydro Distribution Systems	Addendum 3
Lakefront Utilities	Addendum 4
Lakeland Power Distribution	Addendum 5
Midland Power Utility	Addendum 6
Orangeville Hydro	Addendum 7
Orillia Power	. Addendum 8
Parry Sound Power	Addendum 9
Rideau St. Lawrence Distribution	Addendum 10
Wasaga Distribution Ltd	Addendum 11
Wellington North Power	Addendum 12
West Coast Huron Energy	Addendum 13

Collus PowerStream

Addendum 2 – CHEC CDM Combined Annual Report 2013

Conservation and Demand Management 2013 Annual Report

Submitted to:

Ontario Energy Board

Submitted on September 30, 2014

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Executive Summary

This annual report is submitted by Collus PowerStream in accordance with the filing requirements set out in the CDM Code (Board File No. EB-2010-0215), specifically Appendix C Annual Report Template, as a progress report and modification to Collus PowerStream Strategy. Accordingly, this report outlines Collus PowerStream CDM activities for the period of January 1, 2013 to December 31, 2013. It includes net peak demand and net energy savings achieved from 2011, 2012 and 2013, with discussion of the current/future CDM framework, CDM program activities, successes and challenges, as well as forecasted savings to the end of 2014.

Collus PowerStream did not apply for any Board-Approved CDM Programs during 2013; however, as noted in the CDM guidelines, released April 26, 2012, the Ontario Energy Board (OEB) has deemed Time-of-Use (TOU) pricing a Province-wide Board-Approved CDM Program. The Ontario Power Authority (OPA) is to provide measurement and verification on TOU. At the time of this report the OPA has not released any verified results of TOU savings to Collus PowerStream. While these results are anticipated to better the reported savings no allowance has been made in this report.

In 2011, Collus PowerStream contracted with the Ontario Power Authority (OPA) to deliver a portfolio of OPA-Contracted Province-Wide CDM Programs to all customer segments including residential, commercial, institutional, industrial and low income. These programs were rolled-out by the OPA in June 2011. In 2011 Program activities were centered on building a foundation for full program execution over the next three years of the program term, including staffing, procurement, and program delivery.

In 2012, Collus PowerStream continued to place significant emphasis on the programs in market. The delivery of ERII and Direct Install programs continued to be active and the Home Assistance Program was launched. To date Collus PowerStream has:

- Launched all available OPA Programs following their release by the OPA:
- Delivered marketing to inform consumers in all sectors:
- Informed industry stakeholders about OPA Programs, the use of online application system,
- Partnered with CHEC LDCs to form partnerships and delivery models for the various programs;
- In conjunction with other CHEC LDCs engaged the services of a Roving Energy Manager:
- Actively participated in Electrical Distribution Association (EDA, LDC and OPA working groups through our own staff or CHEC resources in order to improve and simplify the existing programs and processes; and
- Transitioned pre-2011 projects into 2011.

In 2013, Collus PowerStream continued to deliver all in market programs with the associated marketing and customer support. The commercial programs such as ERII and Small Business continued to have good traction in the market place and demonstrated industry recognition. In August, the peaksaverPLUS program was launched to all residential customers. This program was launched alongside an extensive marketing campaign which brought with it very good results in the last few months of the year.

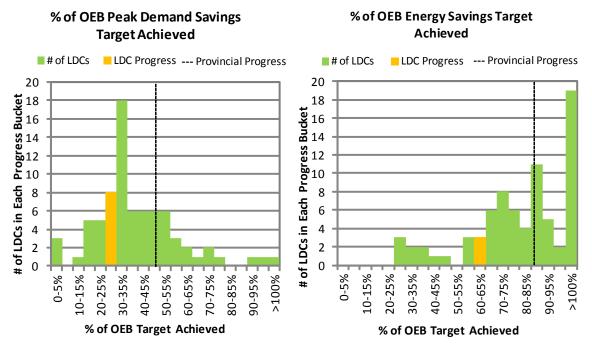
During this period the Roving Energy Manager's contract was renewed to continue this important collaborative resource for CHEC LDCs.

The residential programs continue to struggle to produce significant gains within this sector when compared to the industrial & commercial programs.

To date Collus PowerStream has achieved 0.5 MW of net incremental peak demand savings and 1.7 GWh of net incremental energy savings in 2013. A summary of the achievements towards the CDM targets is shown below:

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

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



The current forecast prepared for this report shows that there will be a shortfall of approximately 1.49 MW versus Collus PowerStream's 2014 peak demand reduction target and a shortfall of approximately 3.33 GWh towards Collus PowerStream's 2014 energy savings target. Given the expected shortfall, Collus PowerStream continues to work actively on participant engagement. In addition Collus PowerStream has partnered with other LDCs, and has been working with the Ontario Power Authority ("OPA") and the Electrical Distribution Association ("EDA") to improve program effectiveness; however it is Collus PowerStream's position that it will not fully overcome the forecasted shortfalls.

Background

On March 31, 2010, the Minister of Energy and Infrastructure of Ontario, under the guidance of sections 27.1 and 27.2 of the *Ontario Energy Board Act, 1998*, directed the Ontario Energy Board (OEB) to establish Conservation and Demand Management (CDM) targets to be met by electricity distributors. Accordingly, on November 12, 2010, the OEB amended the distribution license of Collus PowerStream to require Collus PowerStream, as a condition of its license, to achieve 14.978 GWh of energy savings and 3.14 MW of summer peak demand savings, over the period beginning January 1, 2011 through December 31, 2014.

In accordance with the same Minister's directive, the OEB issued the Conservation and Demand Management Code for Electricity Distributors (the Code) on September 16, 2010. The code sets out the obligations and requirements with which electricity distributors must comply in relation to the CDM targets set out in their licenses. To comply with the Code requirements, COLLUS POWERSTREAM submitted its CDM Strategy on November 1, 2010 which provided a high level of description of how COLLUS POWERSTREAM intended to achieve its CDM targets.

The Code also requires a distributor to file annual reports with the Board. This is the third Annual Report by Collus PowerStream and has been prepared in accordance with the Code requirement and covers the period from January 1, 2013 to December 31, 2013.

Collus PowerStream submitted its 2011 Annual Report on September 30, 2012 which summarized the CDM activities, successes and challenges experienced by Collus PowerStream for the January 1, 2011 to December 31, 2011 period. The OEB's 2011 CDM Results report identified that the delay in the full suite of CDM Programs being made available by the OPA, and the absence of some programs negatively impacted the final 2011 results for the LDCs. This issue was also highlighted in Volumes I & II of the Environmental Commissioner's Report on Ontario's Annual Energy Conservation Progress.

On December 21, 2012, the Minister of Energy directed the Ontario Power Authority (OPA) to fund CDM programs which meet the definition and criteria for OPA-Contracted Province-Wide CDM Programs for an additional one-year period from January 1, 2015 to December 31, 2015.

The Ministerial Directive did not amend the timelines for LDCs to achieve their energy savings and demand savings targets. Therefore, the main focus of the LDCs remains the achievement of CDM targets by December 31, 2014.

Collus PowerStream submitted its 2012 Annual Report on September 30, 2013 which summarized the CDM activities undertaken by Collus PowerStream for the January 1, 2012 to December 31, 2012 period. At this time, Collus PowerStream notified the OEB of the likely shortfall with regards to their 2011-2014 net peak demand (MW) target and energy savings (GWh) target. The OEB's 2012 CDM Results report identified that the majority of LDCs achieved close to 20% of their net peak demand (MW) target from their 2012 results.

LDCs collectively achieved approximately 8% of the energy savings (GWh) target, which is slightly below the 10% incremental annual savings needed each year to achieve the energy savings target. Overall the cumulative results represent approximately 65% of the net energy target of 6,000 GWh.

The report identified that although there have been improvements to programs there still remains so shortcoming to the design and delivery of certain initiatives that have resulted in a negative impact to so programs. In particular, the change management process still requires improvements to expedite enhancement to initiatives. The report also noted that certain initiatives may be reaching the point of market saturation and new initiatives may need to be developed in order to take the place of the existing initiatives.	ome ents

1 Board-Approved CDM Program

1.1 Introduction

In its Decision and Order dated November 12 2010 (EB-2010-0215 & EB-2010-0216), the OEB ordered that, (to meet its mandatory CDM targets), "Each licensed electricity distributor must, as a condition of its license, deliver Board-Approved CDM Programs, OPA-Contracted Province-Wide CDM Programs, or a combination of the two".

At this time, the implementation of Time-of-Use ("TOU") Pricing has been deemed as a Board-Approved Conservation and Demand Management ("CDM") program that is being offered in Collus PowerStream's service area.

1.2 TOU Pricing

1.2.1 Background

In its April 26, 2012 CDM Guidelines, the OEB recognizes that a portion of the aggregate electricity demand target was intended to be attributable to savings achieved through the implementation of TOU Pricing. The OEB establishes TOU prices and has made the implementation of this pricing mechanism mandatory for distributors. On this basis, the OEB has determined that distributors will not have to file a Board-Approved CDM program application regarding TOU pricing. The OEB has deemed the implementation of TOU pricing to be a Board-Approved CDM program for the purposes of achieving the CDM targets. The costs associated with the implementation of TOU pricing are recoverable through distribution rates, and not through the Global Adjustment Mechanism ("GAM").

In accordance with a Directive dated March 31, 2010 by the Minister of Energy and Infrastructure, the OEB is of the view that any evaluations of savings from TOU pricing should be conducted by the OPA for the province, and then allocated to distributors. Collus PowerStream will report these results upon receipt from the OPA.

The OPA had retained The Brattle Group as the evaluation contractor and has been working with an expert panel convened to provide ongoing advice on methodology, data collection, models, savings allocation, etc. The initial evaluations were conducted in 2013 with five LDCs — Hydro One, THESL, Ottawa Hydro, Thunder Bay and Newmarket. Preliminary results from these five LDCs were issued to the five LDCs involved in the study in August 2013 and are now publically available on the OPA website. Preliminary results demonstrated load shifting behaviours from the residential customer class.

Three additional LDCs were added to the study in 2014 – Cambridge-North Dumphries, PowerStream and Sudbury. Preliminary results from this study are planned to be issued to the eight LDCs in September 2014. The OPA advised that the TOU study will be complete in the summer of 2015 and final verified savings will be available for LDCs to include in the 2014 Annual Report.

As of September 30, 2014, the OPA has not released any verified results of TOU savings to Collus PowerStream. Therefore Collus PowerStream is not able to provide any verified savings related to LDC's TOU program at this time.

1.2.2 TOU PROGRAM DESCRIPTION

Target Customer Type(s): Residential and small business customers (up to 250,000 kWh per year)

Initiative Frequency: Year-Round

Objectives: TOU pricing is designed to incent the shifting of energy usage. Therefore peak demand reductions are expected, and energy conservation benefits may also be realized.

Description: In August of 2010, the OEB issued a final determination to mandate TOU pricing for Regulated Price Plan ("RPP") customers by June 2011, in order to support the Government's expectation for 3.6 million RPP consumers to be on TOU pricing by June 2011, and to ensure that smart meters funded at ratepayer expense are being used for their intended purpose.

The RPP TOU price is adjusted twice annually by the OEB. A summary of the RPP TOU pricing is provided below:

	Rates (cents/kWh)	
On Peak	Mid Peak	Off Peak
9.9	8.1	5.1
10.7	8.9	5.9
10.8	9.2	6.2
11.7	10.0	6.5
11.8	9.9	6.3
12.4	10.4	6.7
12.9	10.9	7.2
13.5	11.2	7.5
	9.9 10.7 10.8 11.7 11.8 12.4 12.9	On Peak Mid Peak 9.9 8.1 10.7 8.9 10.8 9.2 11.7 10.0 11.8 9.9 12.4 10.4 12.9 10.9

Delivery: The OEB set the rates; LDCs install and maintain the smart meters and convert customers to TOU billing.

Initiative Activities/Progress:

Collus PowerStream began transitioning its RPP customers to TOU billing on January 1, 2012. At December 31st, 2013, 14,989 RPP customers were on TOU billing.

1.3 Collus PowerStream's Application with the OEB

Collus PowerStream did not submit a CDM program application to the OEB in 2013.

1.4 Collus PowerStream's Application with the OPA's Conservation Fund

In 2013, the OPA introduced the Conservation Fund to help meet LDC's interest in the development and launch of new local, regional and province-wide initiatives. The Conservation Fund's LDC Program Innovation Stream fast-tracks LDC-led program design and the launch of successfully piloted initiatives prior to full scale deployment. By driving program innovation through the Conservation Fund, LDCs have the opportunity to both realize additional savings through the piloting and implementation of initiatives not currently addressed by the OPA portfolio and the means to test concepts for future local or province wide programs post 2014. As per the OPA, as of March 2014, three pilots have been contracted and are underway with Toronto Hydro and Niagara Peninsula Energy and ten others are in various stages of the contracting and development process.

In addition, building on LDC interest in social benchmarking services for the residential sector, in 2013 the Conservation Fund in collaboration with Hydro One, Milton Hydro and Horizon Utilities completed the procurement of three social benchmarking pilot projects. Beginning in 2014 these services will be offered to more than 100,000 customers for a one year period, with evaluation reports published shortly thereafter.

Collus PowerStream did not submit a CDM program application to the OPA's Conservation Fund in 2013.

2 OPA-Contracted Province-Wide CDM Programs

2.1 Introduction

Effective March 13, 2011, COLLUS POWERSTREAM entered into an agreement with the OPA to deliver CDM programs extending from January 1, 2011 to December 31, 2014, which are listed below. Program details are included in Appendix A. In addition, results include projects started pre 2011 which were completed in 2011:

Initiative	Schedule	Date schedule posted	Collus PowerStream in Market Date
Residential Programs			
Appliance Retirement	Schedule B-1, Exhibit D	Jan 26,2011	March 13, 2011
Appliance Exchange	Schedule B-1, Exhibit E	Jan 26, 2011	March 13, 2011
HVAC Incentives	Schedule B-1, Exhibit B	Jan 26, 2011	March 13, 2011
Conservation Instant Coupon Booklet	Schedule B-1, Exhibit A	Jan 26, 2011	March 13, 2011
Bi-Annual Retailer Event	Schedule B-1, Exhibit C	Jan 26, 2011	March 13, 2011
Retailer Co-op	n/a	n/a	March 13, 2011
Residential Demand Response	Schedule B-3	Aug 22, 2011	August 29, 2013
New Construction Program	Schedule B-2	Jan 26, 2011	March 13, 2011
Home Assistance Program	Schedule E-1	May 9, 2011	April 23, 2012
Commercial & Institutional Programs			
Efficiency: Equipment Replacement	Schedule C-2	Jan 26, 2011	March 13, 2011
Direct Install Lighting • General Service <50 kW	Schedule C-3	Jan 26, 2011	March 13, 2011
Existing Building Commissioning Incentive	Schedule C-6	Feb 2011	March 13, 2011
New Construction and Major Renovation Initiative	Schedule C-4	Feb 2011	March 13, 2011
Energy Audit	Schedule C-1	Jan 26, 2011	March 13, 2011
Commercial Demand Response General Service < 50 kW	Schedule B-3	Jan 26, 2011	Not in Market
Industrial Programs - General Service 50 k	:W & above		
Process & System Upgrades	Schedule D-1	May 31, 2011	March 13, 2011
Monitoring & Targeting	Schedule D-2	May 31, 2011	March 13, 2011
Energy Manager	Schedule D-3	May 31, 2011	September, 2012
Key Account Manager ("KAM")	Schedule D-4	May 31,2011	Not in market
Efficiency Equipment Replacement Incentive • (part of the C&I program schedule)	Schedule C-2	May 31, 2011	March 13, 2011
Demand Response 3	Schedule D-6	May 31, 2011	March 13, 2011

In addition, results were realized towards LDC's 2011-2014 target through the following pre-2011 programs:

- Electricity Retrofit Incentive Program
- High Performance New Construction

As per the table below, several program initiatives are no longer available to customer or have not been launched in 2013.

Not in Market	Objective	Status
Residential Program		
Midstream Electronics	Encourages retailers to promote and sell high efficency televisions, and for distributors to distribute high efficiency set top boxes.	Did not launch and removed from Schedule in Q2, 2013.
Midstream Pool Equipment	Encourage pool installers to sell and install efficient pool pump equipment in residential in-ground pools.	Did not launch and removed from Schedule in Q2, 2013.
Home Energy Audit Tool	This is a provincial online audit tool to engage customers in conservation and help drive customer participation to CDM programs.	Did not launch and removed from Schedule in Q2, 2013.
Commercial & Institutional P	rogram	
Direct Service Space Cooling	Offers free servicing of air conditioning systems and refrigeration units for the purpose of achieving energy savings and demand reduction.	Did not launch in 2011/2012. As per the OPA there no plans to launch this Initiative in 2013.
Demand Response 1 ("DR1")	This initiative allows distribution customers to voluntarily reduce electricity demand during certain periods of the year pursuant to the DR 1 contract. The initiative provides DR payment for service for the actual electricity reduction provided during a demand response event.	No customer uptake for this initiative. As a result this Initiative was removed from the Schedule in Q4, 2012.
Industrial Program		
DR1	As above	No customer uptake for this initiative. Removed in Q4, 2012.

The Master CDM Program Agreement includes program change management provision in Article 3. Collaboration between the OPA and the Local Distribution Companies (LDCs) commenced in 2011, and continued in 2012, as the change management process was implemented to enhance the saveONenergy program suite. The change management process allows for modifications to the Master Service Agreement and initiative Schedules. The program enhancements give LDCs additional tools and greater flexibility to deliver programs in a way that meets the needs of customers and further drives participation in the Initiatives.

2.2 Program Descriptions

Full OPA-Contracted Province-Wide CDM Program descriptions are available on the OPA's website at http://www.powerauthority.on.ca/ldc-province-wide-program-documents and additional initiative information can be found on the saveONenergy website at https://saveonenergy.ca. The targeted customer types, objectives, and individual descriptions for each Program Initiative are detailed in Appendix A.

2.2.1 RESIDENTIAL PROGRAM

Description: Provides residential customers with programs and tools to help them understand and manage the amount of energy they use throughout their entire home and help the environment.

Objective: To provide incentives to both existing homeowners and developers/builders to motivate the installation of energy efficiency measures in both existing and new home construction.

Discussion:

The addition of LED measures to the Bi-Annual Retailer Event and in the Annual Coupon initiative in July 2013 has had a positive impact on customer participation. There was the added benefit of three LDC custom coded coupon options for LDCs to utilize in 2013. The Residential Demand Response program continues to be the largest contributor to demand savings in the Residential Program and has been generally well received by consumers. Unfortunately, there were no savings associated with the Energy Display attributed to LDCs in the OPA's 2012 verified results.

The Residential Program Portfolio is predominately a carryover of Initiatives from previous programs. It is mostly driven by retailers and contractors who many not have fully delivered what was anticipated. Three new initiatives (Midstream Electronics, Midstream Pool Equipment and Home Energy Audit Tool) were not launched and subsequently removed from the schedule in 2013 with no new additions. Delays in communication with regards to Initiative offerings and results reporting have hampered LDCs abilities to engage customers and promote participation.

Province-wide advertising was re-introduced in Q3 2013. This provided limited value due to the late market entry, especially for *peaksaver*PLUS.

Work to revitalize and increase the effectiveness and breadth of the Initiatives through the Residential Program continue to be a high priority. Opportunities within the Residential marketplace need to be identified, developed and offered to customers. The Version 5 Schedule changes implemented in Q1/Q2 2014 have increased the number of LDC coded coupons available and added new installations to the Heating and Cooling Incentive.

2.2.1.1 Appliance Retirement Initiative (Exhibit D)

Initiative Activities/Progress:

A marketing plan was developed to promote this program to residential customers, which included the following:

- CDM training was offered to all employees of Collus PowerStream. Three different sessions were put on to
 meet the schedules of all staff and the complete portfolio of residential and business programs were discussed
 and many questions answered.
- A TV appearance was made on the local Rogers TV station in September and the Fridge & Freezer Pickup was promoted.
- E-blasts were issued to all customers part of Collus PowerStream's saveONenergy Be Rewarded data base; Collus PowerStream staff; Town of Collingwood staff in September and October that promoted the program.
- The community conservation booth was setup in the spring at the Creemore Home and Garden Show,
 Collingwood Home Show; the Great Northern Exhibition in September and the saveONenergy COUPON event at the Collingwood Canadian Tire in October. At these events the F&F program was promoted to all those who visited the booth.
- A pull up banner was created to promote both the Fridge & Freezer Pickup program and Heating & Cooling
 Incentive. This banner is used in the lobby at our office and also at community events.
- During the month of November a bill insert ran to all 14,000 residential and business customers to promote the Fridge & Freezer Pickup program.

- Due to the duration of the program, and the revised eligibility requirements to a minimum of 20 years old, this
 Initiative appears to have reached market saturation and has been under consideration for removal from the
 Portfolio.
- Rather than strictly remove this Initiative from the schedules, the OPA and LDCs could review what
 opportunities there are to include other measures such as stoves, dishwashers, washers and dryers. The
 framework of this Initiative may be a suitable foundation for a more holistic residential appliance retirement
 program. As such, the Residential portfolio could be straightened through program evolution rather than
 weakened through diminished program offerings.
- As participation is very responsive to province wide advertising, OPA province-wide advertising should continue to play a key role if the initiative continues.
- Better relationships with retailers may play a role in increasing participation in this Initiative. Retailers can
 provide opportunities to capture replacement appliances and have them decommissioned after a sale has
 been committed.

• In an effort to capture additional savings in the perceived last year of the Initiative, the eligibility requirement for refrigerators was revised from 20 years old to 15 years old in Q2 2014.

2.2.1.2 Appliance Exchange Initiative (Exhibit E)

Initiative Activities/Progress:

In advance of the Appliance Exchange Event a news release was issued to local media outlets to make them aware of the Event and the eligibility requirements, dates and locations in Collingwood.

- The design of the Initiatives, including eligible measures and incentives amounts are developed through the
 Residential Working Group. Retail Partner(s) are contracted by the OPA to deliver the initiatives provincewide. Individual LDCs have the opportunity to stage in-store events to drive the distribution of LDC coded
 Coupons and promotion of other programs in the portfolio
- The restrictive, limited and sometimes non-participation of local stores can diminish the savings potential for this Initiative.
- To date there has only been one retailer participant in the Appliance Exchange Initiative.
- In 2012 there was a decrease in the number of window air conditioners being received through the program.
 A review of eligible measures in the Appliance Exchange program was conducted, and as these units are not cost effective on their own it was determined that they be removed from the program in order to improve the overall cost effectiveness of the Initiative
- Notification to LDCs regarding retailer participation and eligible measures continues to be delayed. Improved communications will aid in appropriate resource allocation and marketing of the Initiative.
- This Initiative may benefit from the disengagement of the retailer and allowing LDCs to conduct these events, possibly as part of a larger community engagement effort, with the backing of ARCA for appliance removal.
- The initiative appears to require more promotion from retailers and LDCs.

2.2.1.3 HVAC Incentives Initiative (Exhibit B)

Initiative Activities/Progress:

A marketing plan was developed to promote this program to residential customers, which included the following:

- CDM training was offered to all employees of Collus PowerStream. Three different sessions were put on to
 meet the schedules of all staff and the complete portfolio of residential and business programs were discussed
 and many questions answered.
- A TV appearance was made on the local Rogers TV station in September and the HVAC program was promoted
- E-blasts were issued to all customers part of Collus PowerStream's saveONenergy Be Rewarded data base; Collus PowerStream staff; Town of Collingwood staff in September and October that promoted the program.
- The community conservation booth was setup in the spring at the Creemore Home and Garden Show,
 Collingwood Home Show; the Great Northern Exhibition in September and the saveONenergy COUPON event at the Collingwood Canadian Tire in October. At these events the Heating & Cooling Incentive was promoted to all those who visited the booth.
- A pull up banner was created to promote both the Fridge & Freezer Pickup program and Heating & Cooling
 Incentive. This banner is used in the lobby at our office and also at community events.
- In the month of October a bill insert ran to all 14,000 residential and business customers that promoted the Heating & Cooling Incentive.
- Newspaper advertisements ran on a bi-weekly from mid-November until mid-December to promote the
 Heating & Cooling Incentive. They appeared in all three local papers, the Collingwood Connection, Stayner Sun
 and Blue Mountains Courier-Herald (covers Thornbury). These advertisements were scheduled in the local
 newspapers at the same time as the OPA had Provincial radio coverage on two local radio stations (The Beach
 FM and Peak FM).
- In mid-December a bill insert ran to all 14,000 residential and business customers that cross promoted three saveONenergy programs: the Heating & Cooling Incentive; peaksaverPLUS and COUPON programs.

- Incentive levels appear to be insufficient to prompt customers to upgrade HVAC equipment prior to end of useful life. An Air Miles incentive was introduced in 2013 to try and encourage early replacement.
- This Initiative is contractor driven with LDCs responsible for marketing efforts to customers. More
 engagement with the HVAC contractor channel should be undertaken to drive a higher proportion of furnace
 and CAC sales to eligible units.

- In an effort to build capability, mandatory training has been instituted for all participating HVAC contractors.
 This could present too much of a barrier for participation for some contractors as the application process already presents a restriction to contractor sales. It has been noted that there are approximately 4500-5000 HVAC contractors in the Province, however in 2013, only a total of 1,587 contractors completed the mandatory HVAC training and can participate in the program.
- There are cases where non-participating contractors are offering their own incentives (by discounting their
 installations to match value of the OPA incentive). As this occurs outside of the Initiative, savings are not
 credited to LDCs. OPA should consider this in future program impact evaluation studies.
- Changes to the Schedule in 2014 to allow for incentives for new installations, rather than strictly replacement units, may provide greater Initiative results.

2.2.1.4 Conservation Instant Coupon Initiative (Exhibit A)

Initiative Activities/Progress:

A marketing plan was developed to promote this program to residential customers, which included the following:

- CDM training was offered to all employees of Collus PowerStream. Three different sessions were put on to
 meet the schedules of all staff and the complete portfolio of residential and business programs were discussed
 and many questions answered.
- Collus PowerStream bar coded COUPONS were printed and available for customers to pickup at our office reception and also made available at all community events we attended.
- A TV appearance was made on the local Rogers TV station in September and the HVAC program was promoted
- E-blasts were issued to all customers part of Collus PowerStream's saveONenergy Be Rewarded data base; Collus PowerStream staff; Town of Collingwood staff in September and October that promoted the program.
- The community conservation booth was setup in the spring at the Creemore Home and Garden Show,
 Collingwood Home Show; the Great Northern Exhibition in September and the saveONenergy COUPON event at the Collingwood Canadian Tire in October. At these events the COUPONS were handed out to those who visited the booth.
- In mid-December a bill insert ran to all 14,000 residential and business customers that cross promoted three saveONenergy programs: the Heating & Cooling Incentive; peaksaverPLUS and COUPON programs.

Additional Comments:

• The timeframe for retailer submission of redeemed coupons varies depending on the retailer and in some cases has been lengthy. The delays and incomplete results reporting limits the ability to react and respond to Initiative performance or changes in consumer behaviour.

- Coupon booklets were not printed and mailed out in 2013 so were not widely available to consumers without
 the ability to download and print online coupons. In addition, consumers may not have been aware of the
 online coupons. The Initiative may benefit from province-wide marketing as a substitute to a mail out
 campaign.
- The product list could be distinctive from the Bi-Annual Retailer Event Initiative in order to gain more consumer interest and uptake.
- Program evolution, including new products and review of incentive pricing for the coupon Initiatives, should be a regular activity to ensure continued consumer interest.
- In 2013, LDCs were provided with 3 custom coded coupons. All coupons have been provided with LDC custom coding in 2014 which allows LDCs to promote coupons based on local preferences.
- Consumer experience varies amongst retailers offering Coupon discounts which can limit redemptions. For
 example, a particular high volume 'participating retailer' does not accept coupons and have their own
 procedure. In addition, some retailers have static lists of eligible products and will not discount eligible
 products unless the product on the list.
- The saveONenergy programs would benefit from specific end cap displays, aisle product stands and productspecific areas. Having product's throughout a retail environment weakens the impact.

2.2.1.5 Bi-Annual Retailer Event Initiative (Exhibit C)

Initiative Activities/Progress:

A marketing plan was developed to promote the community conservation booth being setup and on location one Saturday during the Fall saveONenergy COUPON event at Canadian Tire in Collingwood. At this event we promoted the COUPON program and talked to those that came to our booth about the various discounts they could find in store that month. We helped customers select the products that were on sale with the COUPONS.

Leading up to the event we did a lot of community promotion so that customers knew to find us in-store that weekend:

- A news release was issued to all local media in advance of the event.
- CollusPowerStream.ca home page was updated with a rotational banner that linked to a page with program information.
- E-blast was issued with news release and link to webpage information.
- Worked with local radio station, The Peak FM, to promote our event on their listeners which included:
 mention on their 'In Touch Community Calendar' and weekly e-blast; the event was mentioned on their
 newscast and included in 'What's Happening' reports and we had their 'peak patrol' van and a live remote
 from the Canadian Tire during the morning of our in-store event.

All of this promotion meant that many customers came out to the event saying they had heard about it in local media over the previous week.

During this time all other residential programs were promoted and peaksaverPLUS registrations were gathered. We also promoted the Small Business Lighting program to a couple businesses.

Additional Comments:

- This Initiative is strongly influenced by the retail participants and has no direct involvement from the LDCs.
- LDCs have the opportunity to stage in-store events to drive the distribution of LDC coded Coupons and promotion of other programs in the portfolio however this requires cooperation from the local retailer and LDC staff bandwidth.
- Limited engagement of local retailers can restrict the savings potential for this Initiative.
- The Product list has changed very little over the past five years.
- Program evolution, including new products and review of incentive pricing for the coupon Initiatives, must be
 a regular activity to ensure continued consumer interest.
- The Product list could be distinctive from the Conservation Instant Coupon Initiative in order to gain more consumer interest and uptake.
- A review conducted by the Residential Working Group identified three areas of need for Initiative evolution:
 1) introduction of product focused marketing;
 2) enhanced product selection and
 3) improved training for retailers as retail staff tend not to be knowledgeable regarding the products or promotion.
- This Initiative may benefit from a more exclusive relationship with a retailer appropriate to the program. There should be a value proposition for both the retailer and LDC.
- Independently the Retailer Co-op and Bi-Annual Retailer Event Initiative may not present a value for the investment of LDC resources to support these events and should be backed by a strong Residential portfolio.

2.2.1.6 Retailer Co-op

Initiative Activities/Progress: Collus PowerStream did not directly participate in the retailer co-op.

- This is a retailer Initiative with no direct benefit to the LDCs
- Limited engagement of local retailers can restrict the savings potential for this Initiative.

The availability of retailer and/or LDC staff with product knowledge and the ability to conduct demonstration
in store during the events would be an asset. While this could be a valuable role for LDCs, in many smaller
centers the number of customers engaged at an event is quite low impacting on the benefits of assigning
resources to deliver.

2.2.1.7 New Construction Program (Schedule B-2)

Initiative Activities/Progress: Collus PowerStream did not have any participants in this program.

Additional Comments:

- This Initiative provides incentives to home builders for incorporating energy efficiency into their buildings. To support this, LDCs need to provide education to the consumers regarding the importance of choosing the energy efficient builder upgrade options without an immediate benefit to the consumer.
- In 2012 the application process was streamlined, however continues to be too cumbersome for builders. This combined with limited return has resulted in this Initiative to continue to under-achieve.
- Administrative requirements, in particular individual home modeling, must align with perceived stakeholder payback
- Performance applications are expected to increase in 2014 due to some industry players interest in the
 Initiative. However, it is anticipated that the performance track will be the primary track used in applications,
 which provides low savings for the incentive provided. Savings and associated incentives may need to be
 revised to an appropriate level.
- The addition of LED light fixtures, application process improvement and moving the incentive from the builder to the home-owner may increase participation.
- This Initiative may benefit from collaboration with the Natural Gas utilities.

2.2.1.8 Residential Demand Response Program (Schedule B-3)

Initiative Activities/Progress:

The peaksaverPLUS program was a new initiative for Collus PowerStream in 2013, with the official launch taking place in late August. Since this was the first time Collus PowerStream had offered peaksaver or peaksaverPLUS to customers, a comprehensive marketing plan was created and rolled out from the time the program was launched until the end of the year.

The first step was to provide all employees of Collus PowerStream with CDM training. Three different sessions were put on to meet the schedules of all staff and the complete portfolio of residential and business programs were discussed and many questions answered

Several marketing pieces needed to be created before the plan could launch. Such as:

- Development of peaksaverPLUS webpage on Collus PowerStream website
- Updating of peaksaverPLUS webpage on Collus.saveONenergy.ca
- Addition of Collus PowerStream to vendor's website enrollment page
- Rotational banners created and posted on the Collus PowerStream website
- Pull up banner created and printed, to be used a community events and in office lobby

Once all of these pieces were in place, we were ready to launch the program and the marketing campaign. The program was officially launched August 29, 2013 when a media release was sent to all local media. Following this the marketing plan was rolled out, which included:

- 10 weeks of newspaper advertising in six local papers (Collingwood Connection; Stayner Sun; Blue
 Mountains Courier-Herald; Collingwood Enterprise Bulletin; Creemore Economist and the Georgian Life).
- Editorial copy appeared in the Georgian Life and Collingwood Connection.
- A TV appearance on the local Rogers TV station in September shortly after the peaksaverPLUS program was launched.
- E-blasts were issued to all customers part of Collus PowerStream's saveONenergy Be Rewarded data base;
 Collus PowerStream staff; Town of Collingwood staff in September and October that promoted the program.
- The community conservation booth was setup in the fall at the Great Northern Exhibition in September
 and the saveONenergy COUPON event at the Collingwood Canadian Tire in October. At these events
 peaksaverPLUS was promoted and signups were recorded.
- In the month of September a bill insert ran to all 14,000 residential and business customers that promoted the peaksaverPLUS
- The OPA radio campaign for peaksaverPLUS ran on one of our local stations (the Beach FM) from end of Sept until mid-November. During this time, we decided to purchase a media buy for the other local radio station, The Peak FM, so that we had radio ads taking part on both local channels for this program. Our campaign lasted 12 weeks and finished at the end of 2013.

- Radio appearance was made on The Peak FM's morning chat show at the beginning of October to talk about the program launch.
- In mid-December a bill insert ran to all 14,000 residential and business customers that cross promoted three saveONenergy programs: the Heating & Cooling Incentive; peaksaverPLUS and COUPON programs.

Additional Comments:

- In Home Energy Display units that communicate with installed smart meter technology continue to mostly be in the development phase and are not ready for market deployment. There continues to be a lack of Energy Display selection in the marketplace.
- Smart Meters installed by most LDCs do not have the capability to communicate directly to an In Home Display
 and any mass replacement of newly installed meters with communicating abilities would not be fiscally
 responsible. When proposing technical Initiatives that rely on existing LDC hardware or technology there
 should be an extensive consultative process.
- Introduction of new technology requires incentives for the development of such technology. Appropriate lead
 times for LDC analysis and assessment, product procurement, and testing and integration into the Smart
 Meter environment are also required. Making seemingly minor changes to provincial technical specifications
 can create significant issues when all LDCs attempt to implement the solution in their individual environments.
- The variable funding associated with installing a load controllable thermostat is not sufficient unless it is combined with an In Home Display (IHD) which might not be possible all the time and when IHD is optional.
- Given the different LDC environments, and needs, each LDC is positioning the Initiative slightly differently.
 While a Thermostat has high marketability, it also carries a higher maintenance liability due to no-heat and no-AC calls. A switch with an independent IHD is seen as a lower liability option but also has a much lower marketability.
- This is the main Initiative within the Residential portfolio that was to drive savings for LDC, however the 2012
 evaluation indicated savings realized from the IHD were not statistically significant. LDCs were advised that the
 evaluation of the IHDs would continue with 2013 data.
- Verified demand savings in 2012 from the load control devices were less than originally anticipated. This
 prompted an increase to the load cycling strategy in 2013 in order to increase savings closer to the original
 business case.

2.2.2 COMMERCIAL AND INSTITUTIONAL PROGRAM

Description: Provides commercial, institutional, agricultural and industrial organizations with energy-efficiency programs to help reduce their electrical costs while helping Ontario defer the need to build new generation and reduce its environmental footprint. Programs to help fund energy audits, to replace energy-wasting equipment or

to pursue new construction that exceed our existing codes and standards. Businesses can also pursue incentives for controlling and reducing their electricity demand at specific times.

Targeted Customer Type(s): Commercial, Institutional, Agricultural, Multi-family buildings, Industrial

Objective: Designed to assist building owners and operators as well as tenants and occupants in achieving demand and energy savings, and to facilitate a culture of conservation among these communities as well as the supply chains which serve them.

Discussion:

Throughout 2011 to 2013 the Commercial and Institutional (C&I) Working Group has strived to enhance the existing C&I programs and rectify identified program and system deficiencies. This has proven to be a challenging undertaking. Overbuilt governance, numerous initiative requirements, complex program structure and lengthy change management have restricted growth without providing the anticipated improved Measurement and Verification results. In addition, Evaluation, Measurement and Verification (EM&V) has not yet achieved transparency. LDCs are held accountable for these results yet are mostly completely removed from the process.

LDC program management has been hampered by varying rule interpretation, limited marketing ability, a somewhat inflexible online system of checks and balances and revolving OPA support personnel.

Despite these challenges the C&I Working Group, working in cooperation with the OPA, have managed to iron out many of the issues which could be rectified. In particular, an accomplishment of 2012 was the advent of the expedited change management as means to accelerate certain program changes. 2013 saw the benefits of expedited change management process.

Looking ahead there is minimal opportunity to make valuable changes to the current program suite and have these changes reflected in LDC 2014 results. LDCs and the OPA should look beyond the current Initiatives and work to launch new programs, built on the strengths of the 2011-2014 programs, which will meet the needs of the industry and consumers.

The C & I portfolio continues to be the major contributor to Collus PowerStream's CDM targets. The continued availability of the program will be incorporated into business cases within the sector.

Throughout 2013 Collus PowerStream along with other CHEC LDCs benefited from the efforts of the Roving Energy Manager. The ability to collaboratively obtain this resource has been very beneficial.

2.2.2.1 Efficiency: Equipment Replacement Incentive (ERII) (Schedule C-2)

Initiative Activities/Progress:

The RETROFIT program is a very important part of Collus PowerStream's portfolio of programs as it continues a large amount of savings towards our target. Starting in the summer 2013 a large focus was placed on RETROFIT and driving program participation. All customers in the iCon system were contacted on a monthly basis to get updates on what stage their projects were at and to ensure that the projects were moving forward. Letters were

typically sent via email and phone calls were made to customers who were more difficult to get a hold of. This helped to address customer concerns and also ensured that applications were followed through with.

Several marketing pieces were developed for the RETROFIT program in 2013, which include;

- RETROFIT 'cheat sheet' and 'application tips' were created for the REM to use when meeting with customers
 and helping them through the program.
- RETROFIT specific sell sheet to be used at events and customer meetings
- RETROFIT pull up banner to be used at events and in office lobby.
- All C&I programs sell sheet to be used at events and customer meetings
- C&I saveONenergy presentation folder to be used at events and customer meetings

A CDM training was offered to all employees of Collus PowerStream. Three different sessions were put on to meet the schedules of all staff and the complete portfolio of residential and business programs were discussed and many questions answered.

The CHEC Roving Energy Manager (REM) met with a series of Collus PowerStream businesses and provided them with *Energy Savings Reports*, in order to help promote the saveONenergy RETROFIT program and drive participation.

The CHEC REM met with the CDM Manager on a monthly basis to review customers that he was meeting with and projects that were in process. He was also invited to attend the monthly Energy Managers Meeting's at PowerStream. He started attending these in the summer of 2013 and they have been valuable for him to make contact with other Energy Managers in the province and to learn about project success and issues that they are having.

Additional Comments:

- A large proportion of LDC savings are attributed to ERII.
- Capability building programs from Industrial programs have had very positive contributions to ERII program.
- This Initiative is limited by the state of the economy and the ability of commercial/institutional facility to complete capital upgrades.
- Applicants and Applicant Representatives continue to express dissatisfaction and difficulty with the online
 application system. This issue has been addressed by LDCs through application training workshops, Key
 Account Managers, channel partner/contractor training and LDC staff acting as customer Application
 Representatives. Although this has been an effective method of overcoming these issues and encouraging
 submissions, it also reflects on the complexity and time consuming nature of the application process. As such,

Applicant Representatives continue to influence the majority of applications submitted. Continued development of Channel Partners is essential to program success.

- Prescriptive and Engineered worksheets provide a much needed simplified application process for customers.
 However, the eligible measures need to be updated and expanded in both technology and incentive amounts to address changing product costs and evolution of the marketplace.
- A focus on demand incentives has limited some kWh project opportunities. In particular, night lighting projects have significant savings potential for customers but tend to have incentives of 10% of project cost or less.
- The requirement to have a customer invoice the LDC for their incentive is very burdensome for the customer and results in a negative customer experience and another barrier to participation.
- There is redundancy in the application process as customers may need to complete a worksheet and then enter most of that information over to the online application form. This can be cumbersome.
- Processing Head Office application became much easier for the Lead LDC after Schedule changes came into
 effect in August 2013. The changes implemented allowed the Lead LDC to review and approve all facilities in a
 Head Office application on behalf of all satellite LDCs under certain circumstances.
- The application process for Head Office projects remains a significant barrier. Applicants need to manually
 enter one application per facility associated with the project can be extremely onerous, often requiring a
 dedicated resource.
- Streamlining of the settlements systems resulted in significant improvement in the payment process in 2013.

2.2.2.2 Direct Install Initiative (DIL) (Schedule C-3)

Initiative Activities/Progress:

In the Fall of 2013 a comprehensive marketing plan was launched for the Small Business Lighting program. Earlier in the year program enrolment had been slow and it was clear that a more targeted approach would be required in order to gain program participants.

Starting in September a three-point plan was rolled out to all small business customers that had not yet participated in the SBL program. First eligible customers received a direct mail piece in the mail that was included a letter from our Chief Conservation Officer and a brochure explaining the SBL program and including two customer testimonials from local businesses in Collingwood and Thornbury. A week after the direct mail piece arrived the business owner would get a phone call from our SBL vendor promoting the program. If they didn't enroll at that point an assessor would be sent to the business to try and get them to participate. This three-point plan was highly effective and resulted in 110 participants in just four months.

The assessors and installers that were working on behalf of this program in the Fall 2013 were clearly branded and all received:

- Collus PowerStream ID badges
- Collus PowerStream/saveONenergy branded golf shirts and jackets
- Small Business Lighting appointment cards, which the assessors could leave behind after their visits and when appointments were booked

Additional marketing pieces were also created in 2013 that include:

- New Small Business Lighting webpage
- Small Business Lighting rotational banner added to the Collus PowerStream homepage
- Small Business Lighting specific sell sheet to be used at events and customer meetings
- Small Business Lighting pull-up banner to be used at events and in office lobby.
- All C&I programs sell sheet to be used at events and customer meetings
- C&I saveONenergy presentation folder to be used at events and customer meetings

CDM training was offered to all employees of Collus PowerStream. Three different sessions were put on to meet the schedules of all staff and the complete portfolio of residential and business programs were discussed and many questions were addressed.

The Small Business Lighting program was also promoted at events all year long with signage about the program posted on either side of the Collus PowerStream quench buggy. Literature for the program was always available onsite at events such as the Creemore Home and Garden Show, Collingwood Home Show; Great Northern Exhibition and saveONenergy COUPON event.

Additional Comments:

- LED lighting was introduced in 2013 as a new measure and has been well received by customers who may not have previously qualified for DIL eligible upgrades. This is an efficient product with a long estimate useful life.
- Cold start high output lighting was removed from the program. This particularly affected the farming customers who now have limited options within the program to utilize.
- The inclusion of a standard incentive for additional measures increased project size and drove higher energy
 and demand savings results in some situations. However, LDCs are unable to offer these standard incentives
 to prior participants. The ability to return to prior participants and offer a standard incentive on the remaining
 upgrades has potential to provide additional energy and demand savings
- Many customers are not taking advantage of any additional measures, which may present an opportunity to for future savings with a new program offering.

- Electrical contractor's margins have been reduced due to no labour rate increase, increase cost of materials, greater distances between retrofit and more door knocking required before a successful sale. This has led to a reduction in vendor channel participation in some regions.
- Measure incentives and additional funding for fork lifts were introduced in September 2013 and were well
 received by installers. However, adjustments like these require longer lead times. As such, many customers
 were not able to benefit from this change in late 2013. Consideration should be given to providing advanced
 notification to LDCs and contractors of the upcoming changes to allow for planning.

2.2.2.3 Existing Building Commissioning Incentive Initiative (Schedule C-6)

Initiative Activities/Progress: General promotion of this initiative with similar programs was utilized. The opportunity for this initiative is limited in Collus PowerStream's service territory

Additional Comments:

- Initiative name does not properly describe the Initiative.
- There was minimal participation for this Initiative. It is suspected that the lack of participation in the program is a result of the Initiative being limited to space cooling and a limited window of opportunity (cooling season) for participation.
- Participation is mainly channel partner driven, however the particulars of the Initiative have presented a significant for many channel partners to participate.
- The customer expectation is that the program be expanded to include a broader range of measures for a more holistic approach to building recommissioning and chilled water systems used for other purposes should be made eligible and considered through Change Management.
- This initiative should be reviewed for incentive alignment with ERII, as currently a participant will not receive an incentive if the overall payback is less than 2 years.

2.2.2.4 New Construction and Major Renovation Initiative (HPNC) (Schedule C-4)

Initiative Activities/Progress:

This program is dependent upon the type of development and renovations proposed in the service territory. Development is monitored to determine projects available for this program. In 2013 there were no major construction projects. For 2014 all construction is being monitored.

Additional Comments

- With the Ministerial Directive issued December 21, 2012, facilities with a completion date near the end of 2014 currently have some security that they will be compensated for choosing efficient measures. However, buildings that are in the planning phase with completion dates post-2015 may not participate due to funding uncertainty.
- Participants estimated completion dates tend to be inaccurate and are usually six months longer. This could
 result in diminished savings towards target when facilities are not substantially completed by December 31,
 2014.
- The custom application process requires considerable customer support and skilled LDC staff. The effort required to participate through the custom stream exceeds the value of the incentive for many customers.
- There are no custom measure options for items that do not qualify under the prescriptive or engineered track as the custom path does not allow for individual measures, only whole building modelling.
- This Initiative has a very low net-to-gross ratio, which results in half the proposed target savings being 'lost'.
- The requirement to have a customer invoice the LDC for their incentive is very burdensome for the customer and results in a negative customer experience and a potential barrier to participation.

2.2.2.5 Energy Audit Initiative

Initiative Activities/Progress: The audit program has been promoted during site visits and customer information sessions. To the end of 2013 there was one application received. In addition the assistance of the REM may increase the audit applications.

Several AUDIT FUNDING marketing pieces were created in 2013 that include:

- AUDIT FUNDING specific sell sheet to be used at events and customer meetings
- All C&I programs sell sheet to be used at events and customer meetings
- C&I saveONenergy presentation folder to be used at events and customer meetings

Additional Comments

- The introduction of the new audit component for one system (i.e. compressed air), has increased customer participation.
- The energy audit Initiative is considered an 'enabling' Initiative and 'feeds into' other saveONenergy Initiatives.
- Evaluators in 2012 and 2013 recognized savings towards LDCs targets as a result of customers implementing low/no cost recommendations from their energy audits.

- Audit reports from consultants vary considerably and in some cases, while they adhere to the Initiative requirements, do not provide value for the Participant. A standard template with specific energy saving calculation requirements should be considered.
- Customers look to the LDCs to recommend audit companies. A centralized prequalified list provided by the OPA may be beneficial.
- Participation has been limited to one energy audit per customer which has restricted enabling and direction to
 the other Initiatives. This has been revised in 2014 and LDCs are now able to consider additional customer
 participation when presented with a new scope of work.
- Consideration should be given to allowing a building owner to undertake an audit limited to their lighting system. This way they may receive valuable information from neutral third party regarding the appropriate lighting solution for their facility instead of what a local supplier wants to sell.
- The requirement to have a customer invoice the LDC for their incentive is very burdensome for the customer and results in a negative customer experience and another barrier to participation

2.2.3 INDUSTRIAL PROGRAM

Description: Large facilities are discovering the benefits of energy efficiency through the Industrial Programs which are designed to help identify and promote energy saving opportunities. It includes financial incentives and technical expertise to help organizations modernize systems for enhanced productivity and product quality, as wells as provide a substantial boost to energy productivity. This allows facilities to take control of their energy so they can create long-term competitive energy advantages which reach across the organization.

Targeted Customer Type(s): Industrial, Commercial, Institutional, Agricultural

Objective: To provide incentives to both existing and new industrial customers to motivate the installation of energy efficient measures and to promote participation in demand management.

Discussion:

The Industrial Program Portfolio has been able to provide significant incentives and valuable resources to large facilities to help them with energy efficiency upgrades and process system improvements. The Engineering Studies in particular as well as the Monitoring and Targeting initiative provide a unique opportunity for a customer to complete a comprehensive analysis of an energy intensive process that they otherwise may not undertake. The Energy Manager Initiative provides customers with a skilled individual whose only role is to assist them with conservation initiatives. To date these Energy Managers have played a key role in customer participation.

Within Collus PowerStream's service territory there are a limited number of customers who can take advantage of the industrial portfolio of programs. In many instances the focus has been on the ERII program from the C&I Programs. The promotion of industrial programs has been assisted by the CHEC Roving Energy Manager, a position which was filled in the 3rd quarter of 2012.

Due to the size, scope and long lead time of these Initiatives and associated projects, the Ministerial Directive provides some security for the continuation of the conservation programs and associated compensation for the

participant; however the subsequent savings would not be attributed to an LDC's current target for projects that go into service after 2014.

Extensive legal documents, complex program structure and lengthy change management have restricted the change and growth of this Portfolio. While the expedited change management has benefited the Commercial Portfolio, the Industrial Portfolio has not seen the same results due to the narrow scope of the process. For 2013 the change to the threshold for small capital projects and the new small capital project agreement are expected to improve the number of projects and savings achieved within PSUI. Likewise, a decision to proceed with 2012 natural gas load displacement generation projects applications will also increase uptake although the limited time to bring new projects into service is a barrier.

2.2.3.1 Process & Systems Upgrades Initiative (PSUI) (Schedule D-1)

Initiative Activities/Progress: Process and Systems Upgrades is promoted by the Roving Energy Manager where appropriate. The REM met with a number of customers in 2013 and was able to promote the benefits of the saveONenergy programs to them.

Additional Comments:

- Numerous energy studies have been submitted and completed. This is a strong indication that there is the
 potential for large projects with corresponding energy savings. Most of these studies have been initiated
 through the Energy Manager and KAM resources.
- This Initiative is limited by the state of the economy and the ability of a facility to complete large capital upgrades.
- There is typically a long sales cycle for these projects, and then a long project development cycle. As such, limited results are expected to be generated in 2013. The majority of the results are expected in 2014 with a much reduced benefit to cumulative energy savings targets.
- Delays with processing funding payments have caused delayed payments to Participants beyond contract requirements. In some cases, LDCs have developed a separate side agreement between the LDC and Participant acknowledging that the Participant cannot be paid until the funds are received.
- The contract required for PSUI is a lengthy and complicated document. A key to making PSUI successful is a new agreement which is a simplified with less onerous conditions for the customer.
- To partially address this, changes were made to the ERII Initiative which allowed smaller projects to be directed to the Commercial stream. Most industrial projects to-date have been submitted as ERII projects due to less onerous contract and M&V requirements.
- A business case was submitted by the Industrial Working Group in July 2012 which would change the upper limit for a small project from 700 MWh to 1 million dollars in incentives. This would allow more projects to be

eligible for the new small capital project agreement and increase participant uptake, while still protecting the ratepayer. This small capital project agreement was finalized in August 2013.

- While there is considerable customer interest in on-site Load Displacement (Co-Generation) projects, in 2012 the OPA was accepting waste heat/waste fuel projects only. Natural gas generation projects were on hold awaiting a decision on whether PSUI will fund these types of projects. In June 2013, a decision was made to allow natural gas load displacement generation projects to proceed under PSUI. It is expected that a number of projects will proceed although results may not be counted towards LDC targets due to in-service dates beyond 2014.
- The requirement to have a customer invoice the LDC for their incentive is very burdensome for the customer and results in a negative customer experience and another barrier to participation.

2.2.3.2 Monitoring & Targeting Initiative (Schedule D-2)

Initiative Activities/Progress: Monitoring and Targeting is promoted by the Roving Energy Manager where appropriate. The REM met with a number of customers in 2013 and was able to promote the benefits of the saveONenergy programs to them.

Additional Comments:

- The M&T initiative is targeted at larger customers with the capacity to review the M&T data. This review requires the customer facility to employ an Energy Manager, or a person with equivalent qualifications, which has been a barrier for some customers. As such, a limited number of applications have been received to date.
- The savings target required for this Initiative can present a significant challenge for smaller customers.
- Changes were made to ERII in 2013 to allow smaller facilities to employ M&T systems.

2.2.3.3 Energy Manager Initiative (Schedule D-3)

Initiative Activities/Progress:

The CHEC LDCs hired a Roving Energy Manager (REM) in September, 2012. The remainder of 2012 allowed him to become familiar with the CHEC LDCs and their service territories.

In 2013 the REM was able to meet with a series of Collus PowerStream businesses and engage them in the saveONenergy programs. Typically the LDC arranges a site visit to introduce the REM to the company along with the offer of assistance. The REM will then meet with the customer and follow-up the meeting with an *Energy*

Savings Report, in order to help promote the saveONenergy business programs and also drive program

participation.

The REM has been very successful in meeting with a number of Collus PowerStream businesses and provides a

significant contribution to the awareness of conservation options and to the evaluation and implementation of

programs.

The REM meets with the CDM Manager on a monthly basis to review customers that he is working with and

projects that are in process. He was also invited to attend the monthly Energy Managers Meeting's at

PowerStream. He started attending these during the summer of 2013. These meetings have been valuable for him

to make contact with other Energy Managers in the province and to learn about project success and issues that

they are having.

To support the efforts of the REM access to the OPA training and other programs has been made available to him.

This assists in building capacity and will lead to continued good performance in future years.

Additional Comments:

The Energy Managers have proven to be a popular and useful resource for larger customers.

CHEC LDCs qualified for their own REM to share among the Member LDCs.

Some LDCs and Customers are reporting difficulties in hiring capable Roving and Embedded Energy Managers

(REM/EEM), in some instances taking up to 7 months to have a resource in place.

New energy managers require training, time to familiarize with facilities and staff and require time to establish

"credibility". Energy Managers started filling their pipeline with projects in 2012 but few projects were

implemented until 2013.

2.2.3.4 *Key Account Manager (Schedule D-4)*

Initiative Activities/Progress: Does not apply as large accounts are not present in service territory.

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2.2.3.5 Demand Response 3 (D-6)

Initiative Activities/Progress:

In 2013 the CHEC REM was able to meet with a series of Collus PowerStream businesses and provided them with *Energy Savings Reports*, in order to help promote the saveONenergy business programs and also drive program participation. In these meetings and reports he highlighted the DR3 program to a number of businesses, however, we did not receive any additional uptake in this program during 2013.

Several DR3 marketing pieces were also created in 2013 that include:

- DR3 specific sell sheet to be used at events and customer meetings
- All C&I programs sell sheet to be used at events and customer meetings
- C&I saveONenergy presentation folder to be used at events and customer meetings

Additional Comments:

- Customer data is not provided on an individual customer basis due to contractual requirements with the aggregators. This limited LDCs' ability to effectively market to prospective participants and verify savings.
- No program improvements were made in 2013 however, it was accepted that prior participants who renew their DR3 contract within the 2011-2014 term will contribute to LDC targets.
- As of 2013, Aggregators were able to enter into contracts beyond 2014 which has allowed them to offer a more competitive contract price (5 year) than if limited to 1 or 2 year contracts.
- Metering and settlement requirements are expensive and complicated and can reduce customer compensation amounts, and present a barrier to smaller customers.
- Compensation amounts for new contracts and renewals have been reduced from the initial launch of this program (premium zones and 200 hour option have been discontinued) and subsequently there has been a corresponding decrease in renewal revenue. This can impact on customers remaining in the program.

2.2.4 LOW INCOME INITIATIVE (HOME ASSISTANCE PROGRAM) (Schedule E-1)

Initiative Activities/Progress:

This was the second year that Collus PowerStream offered the Home Assistance Program. Uptake in the first year was steady and we were able to achieve increased success in 2013. This was achieved by having monthly meetings with our Service Provider (Green Communities) and their Delivery Agent (the Environment Network). Mid-month

meetings were also held directly with the Environment Network to ensure we were keeping in close contact and that the program was moving along.

The program was promoted in a number of ways, including:

- Articles in monthly e-newsletter
- Information posted on delivery agents website
- Inclusion of promotional materials in food baskets from local food bank and Salvation Army
- Promotion of program to local senior's groups and Church groups

We also did a number of things to ensure the program was successful this year, including:

- Updating of the Collus PowerStream saveONenergy Home Assistance Microsite
- Printing of collateral pieces to use as handouts
- Bill insert to all 14,000 residential and business customers during the month of December
- Information made available to customers in our office lobby
- Cross promotion of HAP was encouraged with the Customer Service Representatives when dealing with a
 high bill complaint from a customer or if a customer was eligible for LEAP/had previously participated in
 LEAP.
- Began discussions with Simcoe County Social Housing in order to get them enrolled in the program (note: their participation ended up being in 2014, however, much of the work to get them to participate was carried out in 2013).
- CDM training was offered to all employees of Collus PowerStream. Three different sessions were put on to meet the schedules of all staff and the complete portfolio of residential and business programs were discussed, including the Home Assistance Program and any questions were addressed.

Additional Comments:

- The process for enrolling in social housing was complicated and time consuming. This was addressed in late 2012 and showed some benefits in 2013.
- The financial scope, complexity, and customer privacy requirements of this Initiative are challenging for LDCs and most have contracted this program out. This Initiative may benefit from an OPA contracted centralized delivery agent.
- The lack of deep installs continues to be an issue with the program.

2.2.5	PRE-2011 PROGRAMS	
	ere realized towards LDC's 2011-2014 target through pre-2011 programs. descriptions, and activities of these programs are detailed in Appendix B	The targeted customer types

3 2013 LDC CDM Results

3.1 Participation and Savings

Initiative	Unit	(new prog	ram activity o	ental Activity ocurring within t ing period)	he specified	(new peak d	emental Peak lemand saving specified repo	s from activity				ergy Savings (k ectivity within t g period)			fied Progress to Target des DR) 2011-2014 Net Cumulative Energy Savings (kWh)
		2011*	2012*	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program															
Appliance Retirement /	Appliances	128	97	45		- 8	5	3		52,747		19,139		15	365,810
	Appliances	11	2 112	21 138		- 1	0 27	4	J	1,671 87,511		7,758 57,436		5 104	23,379 609,312
	Equipment Items		112 88		!	46 3	1	32		53,469	3,996	22,026	+	5	269,916
	Items	2,721	3,032	2,700	i	5	4	3	r	83,982			!	12	663,727
	Items	0	0	0	!	0	0	0	!	0 0		0		0	0
	Devices	0	0	268		0	0	142		0	0	0	1	0	0
Residential Demand Response (IHD)	Devices	0		259		0	0	0		0	0	0		0	0
	Homes	0	0	0		0	0	0		0	0	. 0		0	, 0
Consumer Program Total						63	37	186		279,380	168,155	155,456		143	1,932,144
Business Program								,							
	Projects	4	12	25	<u>,</u>	16	170	140	¦	116,644	692,251	828,030		319	4,136,641
	Projects	37	42	113		61	45	108			173,197	399,272		185	1,882,320
	Buildings Buildings	0	0	0	!	0	0	0	<u> </u>		0	0	i	0	0
	Audits		0 -	-¦ ⁰ / ₀	<u></u>					0				+ 	t "
	Devices	0	0		,	0	0	0	,		0			 	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0			
	Facilities	1	1	1		37	37	38		1,451	542	505	·	0	2,498
Business Program Total						114	252	292		279,625	865,990	1,227,807		504	6,021,459
Industrial Program															
	Projects	0	0	0	i	0	0	0		0				0	0
Monitoring & Targeting	Projects		0		<u>'</u>	00	0		<u>'</u>	0	0	0	i	0	0
Energy Manager F Retrofit F	Projects	0	0	00	<u>-</u>	0	0	00	¦	0	0	0			
	Projects	11	± '	. 		33	0	0	i	20,487		0		3	81,948
Industrial Program Total	Facilities	0	. 0	0	L	3	0	0		20,487	0	0	i	0	81,948
Industrial Program Total							_ •	_ •		20,467		_ •		3	81,348
Home Assistance Program	Homes	0	19	30		0	1	2	•	0	14.523	19.295	i	3	81.976
Home Assistance Program Total						0	1	2		0	14,523	19,295		3	81,976
Aboriginal Program						i e	•	•	_			•	•		
Home Assistance Program	Homes	0	0	0		0	0	0		0	0	0	i	0	00
Direct Install Lighting	Projects	0	0	0		0	0	0	!	0	0	0		0	0
Aboriginal Program Total						0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011															
	Projects	2	0	0	<u>.</u>	3	0	0	i	15,807			<u>'</u>	3	63,228
	Projects	2	0	0	'	44	0	0	L	225,075	313	0	!	44	901,238
	Projects	0	0	0	' 	0	0	0	¦	0	0	0	i	0	0
	Projects	0	0	0		0	0	00	i	0	0				<u>-</u>
	Projects	0	1 0	1 0		0 47	0	0		240.882				0	0
Pre-2011 Programs completed in 2011 Total	aı			_		47	0	0		240,882	313	0		47	964,466
Other				_						_				_	_
	Projects Homes	0	0		<u> </u>	0	0	0		0	0	0		0 0	0
Other Total	nontes	U	. 0	. 0	_	0	0	0		0	0	0		0	0
							1								
Adjustments to 2011 Verified Results Adjustments to 2012 Verified Results							-14	39			-86,828	0 291.605		-14 39	-347,311 874.814
												. ,			
Energy Efficiency Total						188	254	299 180		818,923	1,048,439	1,402,053		699	9,079,495
Demand Response Total (Scenario 1)	Populte Total					37 0	37 -14	180 39		1,451	542 -86,828	505 291,605		0 25	2,498 527,502
						226	-14 277	39 518		820.374	-86,828 962,153	1.694.162		724	9,609,495
Adjustments to Previous Years' Verified R															
OPA-Contracted LDC Portfolio Total (inc. A	.,	The IND line	item on the 2	012 appual repo	rt har been lef				tions:	820,374	302,133		000 7		.,,
	ources for each ties or devices			013 annual repor		t blank pending			itions;				I OEB Target:	3,140 23,0%	14,970,000

Table 1: Summarized Program Results

	Gross S	avings	Net Sa	vings	Contributio	n to Targets
Program	Incremental Peak Demand Savings (MW)	Incremental Energy Savings (GWh)	Incremental Peak Demand Savings (MW)	Incremental Energy Savings (GWh)	Program-to-Date: Net Annual Peak Demand Savings (MW) in 2014	Program-to-Date: 2011-2014 Net Cumulative Energy Savings (GWh)
Consumer Program Total	0.228	0.2434	0.186	0.1555	0.143	1.9321
Business Program Total	0.362	1.6161	0.292	1.2278	0.504	6.0215
Industrial Program Total	0.180	0.0005	0.180	0.0005		
Home Assistance Program Total	0.002	0.0193	0.002	0.0193	0.003	0.08195
Pre-2011 Programs completed in 2011 Total	0	0	0	0	0.047	0.9645
Other Adjustments	0.063	0.4646	0.039	0.2916	0.025	0.5275
Total OPA Contracted Province-Wide CDM Programs *please make sure you complete the total line	0.654	2.2343	0.518	1.6941	0.724	9.6095

3.2 Evaluation

In order to assess the impacts (energy and demand savings) and the effectiveness of the conservation programs on its participants and/or market, the OPA conducted Evaluation, Measurement, and Verification (EM&V) of the OPA-Contracted Province-Wide Programs. The key EM&V findings as summarized and provided by the OPA are included in Table 16 below.

Table 2: Evaluation Findings

Initiative	Evaluation Findings – Provincial Level (Source: 2013 EM&V Summary Report from the OPA)
Consumer Program	
Appliance Retirement	 Overall participation continues to fall with 20,952 appliances recycled in 2013, compared with 34,146 in 2012 and 56,110 in 2011. The program has experienced close to a 40% reduction (39.1% 2011 to 2012, 41.1% 2012 to 2013) in recycled appliances in each subsequent year of operation. Per unit savings increased for both energy (+15.4%) and demand (+4.0%) between 2012 and 2013 due to a greater proportion of refrigerators/freezers with large volumes and a manufacturer date before NAECA was implemented. Dehumidifiers also show a higher per unit savings related to the change in ENERGY STAR definitions. Net to gross ratio stayed constant at around 43% between 2012 and 2013.
Appliance Exchange	 Increased per unit energy and demand savings due to an adjustment to the assumed consumption of "conventional" and Energy Star dehumidifiers. The calculated weighted average annual energy savings of an exchanged dehumidifier increased 36.6% Of the participants surveyed who reported they had replaced the dehumidifiers they exchanged, 100% reported purchasing ENERGY STAR® models. 48% increase in the number of eligible dehumidifiers collected in the program. In 2013, 5,337 dehumidifier units were collected compared to 3,617 dehumidifier units and 219 window air conditioners in 2012. Net to Gross ratio (NTG) was 52.6% which is a slight increase of the 2012 NTG of 51.5%.
HVAC Incentives	Per unit furnace savings decreased from 1139 kWh/yr in 2012 to 1090 kWh/yr due to a slight shift in the number of participants who use their furnace fan non-continuously both before and after the retrofit as opposed to changing from continuous to non-continuous operation.

Residential	purchase of additional coupon initiative measures without using coupons because of program influence.
Bi-Annual Retailer Event	 36% lower net annual savings in 2013 compared to 2012 primarily because of significant reductions in per unit savings estimates for standard and specialty CFLs. In 2013, findings showed a decrease in replacement rate of incandescent bulbs. Only 30% of 2013 participants are estimated to have replaced incandescent bulbs compared to 60% of participants replacing incandescent bulbs in 2012. This leads to a change in the baseline assumption for the savings calculations. 19% increase in the number of coupons redeemed during the Spring and Fall Events in 2013 compared to 2012 because of substantial increase in LED purchases with event coupons. 87% of coupons redeemed were for general purpose and specialty CFLs and LEDs, producing 80% of net annual energy savings and 73% of net demand savings. Measure NTG ratio was approximately 8% higher in 2013 than in 2012 due to the inclusion of participant like spillover, i.e.,
Conservation Instant Coupon Booklet	 Per unit energy and demand savings assumptions for central air conditioners did not change from 2012. Total participation (equipment) increased 7.5% from 2012 to 91,581. Customers redeemed more than ten times as many annual coupons in 2013 as in 2012 because of new LED coupons and full year availability of all coupons. Customers redeemed 13% more annual coupons in 2013 than in 2011, the first full year of annual coupons due to the high volume of new LED coupons. There was a significant reduction in savings specialty CFL related measures. In 2013, the findings showed around 30% of participants are replacing incandescent bulbs compared to 60% of participants replacing incandescent bulbs in 2012. Despite the significant per unit savings reductions, the Net Annual Savings from Annual Coupons in 2013 was more than 5.5 times that in 2012. This is primarily because of higher participation due to the inclusion of LED coupons and full year availability of all coupons. 93% of coupons redeemed in 2013 were for general purpose LEDS and specialty CFLs and LEDs, producing 89% of net annual energy savings and 84% of net demand savings. Measure NTG ratio was approximately 8% higher in 2013 than in 2012 due to the inclusion of participant like spillover, i.e., purchase of additional coupon initiative measures without using coupons because of program influence.

Construction	 projects also increased from 45 in 2011 and 2012 to 86 in 2013. All projects are opting for the prescriptive or performance path. No custom project applications were received in 2013, similar to 2011-2012. Net-to-gross ratio for the initiative was higher by 14% from 49% in 2012 to 63% in 2013. 100% of participants found application process reasonable and understandable.
Equipment Replacement Incentive Initiative	 A total of 8,785 projects completed in 2013. Reported energy savings for individual projects ranged from 1 kWh to over 5,000,000 kWh. Net to Gross ratio (NTG) for energy was 72.8%, consistent with prior years. NTG for demand was 72.0%, consistent with prior years. NTG ratios are comparable to similar programs across North America.
Direct Installed Lighting	 In 2013 OPA introduced: a) an increase in the incentive to \$1500 from \$1000, b) new LED measures c) Agribusiness eligibility 17,782 projects completed in 2013 (3.8% decrease from 2012). However, 12.2% increase in Net Verified Energy Savings relative to 2012. The average incentive per project and savings per project both increased between 2012 to 2013. Net to Gross ratio (NTG) for 2013 remained unchanged at 94%.
Existing Building Commissioning Incentive	 No Commissioning projects completed the hand-off/completion phase in 2013. 29 unique participants in the 2013 population. Improvements to the chilled water system controls were the most commonly targeted measure. Large variation in estimated savings results between investigation phase and implementation phase.
High Performance New Construction	 Number of projects increased by 25% from 69 in 2012 to 86 in 2013. Custom projects, representing only about 8% of the total number of projects, account for 67% of verified demand savings and 54% of verified energy savings. A realization rate of 72% for energy savings is low due to the low realization rate of the Agribusiness high ventilation, low speed fans which comprised of 15% of the HPNC prescriptive project energy savings. Net-to-gross ratio for the initiative was higher by 5% from 49% in 2012 to 54% in 2013. 100% of participants found the application process to be reasonable and understandable.
Energy Audit	 319 audits were completed in 2013. 2013 sample saw more recommended measures implemented without incentives (33% in 2013 vs. 13% in 2012). The average per audit summer peak demands savings is estimated to be 13 kW.

Small Commercial Demand Response	Not available. Summary of provincial evaluation findings was not provided by the OPA.
Demand Response 3	See Demand Response 3 within Industrial Program.
Industrial Program	
Process & System Upgrades Initiative	 In 2013, three PSUI projects were put into service. Projects were very well documented and technical reviews were thorough. Most projects are delivering the level of energy savings expected or more (realization rates of 87% for energy savings and 86% for summer demand savings). Good level of quality on M&V conducted in each project. The level of free-ridership was found to be very low, at only 7% for energy savings and 6% for demand savings, and no spillover was identified. Energy Managers are seen as important drivers of program enabled savings projects.
Monitoring & Targeting	Not applicable. No 2012 results.
Energy Manager	See Process & Systems Upgrade Initiative for evaluations regarding Energy Manager (non-incented) savings. No separate evaluation findings were provided by the OPA.
Equipment Replacement Incentive Initiative	See Equipment Replacement Incentive Initiative under C&I Program.
Demand Response	 The largest 20 contributors account for 60% of the contractual demand reduction – in other words, less than 5% of contributors account for the majority of the load reductions. In 2013, DR-3 was successfully dispatched locally for the first time in order to provide assistance in restoring power after a prolonged power outage due to substation flooding.
Low Income Program	n <u> </u>
Low Income Program	 Participation increased significantly to 26,756 participants in 2013 from 5,033 in 2012. Realization rates were slightly lower in 2013 (0.88 for kWh and 0.26 for kW) than in 2012 (0.98 for kWh and 0.32 for kW) primarily due to researched installation verification and persistence factors. Realization rate for demand savings remained low as FAST calculated kW savings for certain insulation measures remained very

	high and recommended revisions to kW savings factors were not yet in use in 2013 (changes to the FAST tool to address these issues were made in early 2014).						
Pre-2011 Programs	Pre-2011 Programs completed in 2011-2014						
Electricity Retrofit Incentive Program	No projects completed for this initiative in 2013.						
High Performance New Construction	 Initiative was not evaluated in 2013. Net-to-Gross ratios used are consistent with the 2010 evaluation findings (realization rate of 100% and net-to-gross ratio of 50%). 						
Multifamily Energy Efficiency Rebates	No projects completed for this initiative in 2013.						
Data Centre Incentive Program	No projects completed for this initiative in 2013.						

3.3 Spending

Table 3 and 4 summarize the total spending by initiative that Collus PowerStream has incurred in 2013 and cumulatively since 2011. It is detailed by the Program Administration Budget (PAB), Participant Based Funding (PBF), Participant Incentives (PI) and Capability Building Funding (CBF).

Table 3: 2013 Spending

Initiative	Program Administration	Participant Based Funding (PBF)	Participant Incentives (PI)	Capability Building Funding (CBF)	TOTAL
Consumer Program					
Appliance Retirement	\$6,554.22	-	-	-	\$6,554.22
Appliance Exchange	\$3,786.13	-	-	-	\$3,786.13
HVAC Incentives	\$6,554.22	-	-	-	\$6,554.22
Conservation Instant	\$5,170.18	-	-	-	\$5,170.18
Bi-Annual Retailer	-	-	-	-	-
Retailer Co-op	-	-	-	-	-
Residential Demand	\$61,916.26	\$101,478.90	-	-	\$163,395.16
New Construction	\$3,786.13	-	-	-	\$3,786.13
Business Program	<u>'</u>		•	•	
Efficiency: Equipment	\$31,338.88	-	\$171,891.48	-	\$203,230.36
Direct Installed	\$46,222.04	\$28,815.00	\$123,426.75	-	\$198,463.79
Existing Building	\$8,043.66	-	-	-	\$8,043.66
New Construction	\$8,043.66	-	-	-	\$8,043.66
Energy Audit	\$8,043.66	-	-	-	\$8,043.66
Direct Service Space	-	-	-	-	-
Demand Response 3	-	-	-	-	-
Industrial Program	<u>'</u>			•	<u>'</u>
Process & System	-	-	-	-	-
a) preliminary	-	-	-	-	-
b) detailed	-	-	-	-	-
c) program	-	-	-	-	-
Monitoring &	-	-	-	-	-
Energy Manager	-	-	-	-	-
Key Account	-	-	-	-	-
Demand Response 1	-	-	-	-	-
Demand Response 3	\$18,727.76	-	-	-	\$18,727.76
Home Assistance					
Home Assistance	\$9,437.27	\$6,300	\$3,749.20	-	\$19,486.47
Pre 2011 Programs					
Electricity Retrofit	-	-	-	-	-
High Performance	-	-	-	-	-
Toronto	-	-	-	-	-
Multifamily Energy	-	-	-	-	-
Data Centre Incentive	-	-	-	-	-
EnWin Green Suites	-	-	-	-	-
Initiatives Not In					
Midstream	-	-	-	-	-
Midstream Pool	-	-	-	-	-
Demand Service	-	-	-	<u> </u>	-
Demand Response 1	-	-	-	-	-
Demand Response 1	-	-	-	-	-
Home Energy Audit	-	-	-	-	-
TOTAL Province-	\$217,624.07	\$136,593.90	\$299,067.43	-	\$653,285.40

Table 4: Cumulative Spending (2011-2014)

Initiative	Program Administration	Participant Based Funding (PBF)	Participant Incentives (PI)	Capability Building Funding (CBF)	TOTAL
Consumer Program					
Appliance Retirement	\$8,996.33	=	-	=	\$8,996.33
Appliance Exchange	\$6,096.47	-	-	-	\$6,096.47
HVAC Incentives	\$9,129.38	-	-	-	\$9,129.38
Conservation Instant	\$10,286.53	=	-	=	\$10,286.53
Bi-Annual Retailer	\$2,516.61	=	-	=	\$2,516.61
Retailer Co-op	-	-	-	-	-
Residential Demand	\$62,681.55	\$101,478.90	-	=	\$164,160.45
New Construction	\$98,835.82	-	-	-	\$98,835.82
Business Program		<u>'</u>	<u>'</u>	<u>'</u>	<u>'</u>
Efficiency: Equipment	\$49,400.46		\$316,506.17		\$365,906.63
Direct Installed	\$52,328.27	\$49,328.40	\$192,789.25		\$294,540.92
Existing Building	\$9,426.84	-	-	-	\$9,426.84
New Construction	\$10,126.84	-	-	-	\$10,126.84
Energy Audit	\$10,126.84	-	-	-	\$10,126.84
Commercial Demand	-	-	-	-	-
Direct Service Space	-	-	-	-	-
Industrial Program					
Process & System	-	-		-	-
a) preliminary	-	-	-	-	-
b) detailed	-	-	-	-	-
c) program	-	-		-	-
Monitoring &	-	-		-	-
Energy Manager	\$2,034.92	-	-	-	\$2,034.92
Key Account	-	-	-	-	-
Efficiency: Equipment	-	-	-	-	-
Demand Response 3	\$18,727.76	-	-	-	\$18,727.76
Home Assistance			'		,
Home Assistance	\$16,686.08	\$10,357.80	\$5,474.20	=	\$32,518.08
Pre 2011 Programs					
Electricity Retrofit	=	=	-	=	=
High Performance	=	=	-	=	=
Toronto	-	-	-	-	-
Multifamily Energy	=	=	-	=	=
Data Centre Incentive	=	=	-	=	=
EnWin Green Suites	=	=	-	=	=
Initiatives Not In		·	·		·
Midstream	-	-	-	-	-
Midstream Pool	-	-	-	-	-
Demand Service	-	-	-	-	-
Demand Response 1	=	=	-	÷	=
Demand Response 1	=	=	-	=	=
Home Energy Audit	=	=	-	=	=
TOTAL Province-	\$367,400.70	\$161,165.10	\$514,769.62		\$1,043,335.42

3.4 Additional Comments

Over 2013 there is evidence that more customers are "buying in" to the conservation message and to the programs. Applications for programs such as ERII continue to be submitted. It is realized however that while an application is submitted the customer may not move to implementation if any barriers are presented. The application process continues to be an issue for many customers.

The residential marketplace continues to present challenges to gain significant savings. The technology challenges which occurred with the implementation of the peaksaverPLUS program impacted the market penetration as advertising was delayed or postponed until the following year. Within the program the initiatives which were not developed also impacted on the overall results and perhaps also on the visibility of conservation in the residential sector.

Over the 2013 year the Roving Energy Manager's contract was renewed for a subsequent year. This was seen as a major accomplishment and benefit to maintain this resource for the CHEC LDCs. The ability of the REM to work in a number of territories, develop and maintain relationships and to support the appropriate reporting has resulted in customers moving forward with projects to the benefit of the LDCs.

Some of the program changes will assist with the delivery of programs such as the inclusion of LEDs in the Small Business Lighting. While changes have been well received there remains concern that the programs are saturating and that more effort will be required for perhaps a diminishing return on the current programs.

4 Combined CDM Reporting Elements

4.1 Progress Towards CDM Targets

Table 5: Net Peak Demand Savings at the End User Level (MW)

Implementation Period	Annual						
implementation Period	2011	2012	2013	2014			
2011 - Verified	0.2	0.2	0.2	0.2			
2012 - Verified†	0.0	0.3	0.2	0.2			
2013 - Verified†	0.0	0.0	0.5	0.3			
2014							
Verifie	0.7						
COLLU	3.1						
Verified Portion	of Peak Demand	Savings Target Ac	chieved in 2014 (%):	23.1%			

Table 6: Net Energy Savings at the End-User Level (GWh)

Implementation Period		A	Annual				
implementation Period	2011	2012	2013	2014	2011-2014		
2011 - Verified	0.8	0.8	0.8	0.7	3.2		
2012 - Verified†	-0.1	1.0	0.9	0.9	2.8		
2013 - Verified†	0.0	0.3	1.7	1.7	3.7		
2014							
	9.6						
	15.0						
	Verified Por	tion of Cumulati	ve Energy Target Achi	ieved in 2014 (%):	64.2%		

4.2 Variance from Strategy

As indicated above, Collus PowerStream is striving to achieve the reduction targets as set by the OEB but has concerns that these targets may not be attainable within the 2011-2014 timeframe. The revised strategy that was submitted in the 2012 Annual Report indicated that Collus PowerStream would not meet the forecasted targets.

Over the past three years Collus PowerStream has been working to build a culture of conservation within the communities it serves. Since this is the first time a full suite of conservation programs has been offered to customers in this area, program implementation has taken longer than anticipated. There have been several issues which have contributed to the forecasted shortfall. Collus PowerStream experienced a slower than forecasted uptake in programs by residential and business customers. The vendor selection process (i.e. time spent on RFP's

and on contract negotiations) had taken longer than anticipated which caused delays in programs getting into market and therefore customer participation.

When the original strategy was developed the net-to-gross ratio used was higher than what the OPA evaluation now shows.

Although Collus PowerStream planned on meeting its targets, it has become evident that we will fall short on meeting the demand savings and consumption savings targets. Collus PowerStream has a very limited large commercial and institutional customer base with which to promote conservation projects, making it difficult to achieve higher savings.

Collus PowerStream views conservation as a priority and will continue to have a strong focus on the saveONenergy programs in the final year.

4.3 Outlook to 2014 and Strategy Modifications

Based on the difficulties and delays that Collus PowerStream encountered during 2011 and 2012 the CDM forecast has been reevaluated and a more realistic forecast based on current achievements is presented below.

In 2012 a partnership between Collus PowerStream and PowerStream was formed. As a result Collus PowerStream utilized that partnership in 2013 through a shared services agreement for PowerStream to manage the saveONenergy portfolio.

In 2013 Collus PowerStream began offering the peaksaverPLUS program which will help towards the demand savings target.

The revised strategy below is based on Collus PowerStream offering only the provincial saveONenergy programs.

Additionally, on March 31st, 2014 the Minister of Energy issued a directive entitled "Continuance of the OPA's Demand Response Program under IESO management" which effectively halts new customer enrollments in the DR3 program until the IESO has a program in market. This is estimated to be some time in 2015.

The DR3 Initiative is a significant contributor to helping LDCs achieve their demands savings target. The program has taken some time to get traction and LDCs have been diligently working with their customers to encourage participation in the DR3 program. LDC customers are now in a position where many of them have contracted with an Aggregator but will be unable to participate due to the inability of the Aggregator to receive new contract schedules resulting in the current "pipeline" of potential DR contributors being stranded.

			ntribution t	o 2014 Targ																	
		Original	Actual 20	11 Results		Revised	Actual 2012 Results		2013 Revised		Actual 2013 Results		2014 Revised		Actual 2014 Results		Revised Total		Contribution to Target		
COLLUS POWER STREAM	3,	Projection				Strategy Projection				Strategy Projection				Strategy Projection				Projected Reduction		ŭ	
Category - Consumer	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	
Provincial Programs																					
Appliance Retirement	9	199,375	8	216,921	7	117,864	5	118,474	0	60,000	7	53,794	10	50,000			30	439,189	20		
Instant Discounts (Rebates)	4	380,940	8	549,805	2	172,871	5	241,593	0	60,000	4	142,245	0	30,000			17	963,643	17	933,643	
HVAC Discounts (Rebates)	27	169,456	46	350,043	28	129,732	27	144,397	30	120,000	31	114,872	60	100,000			164	709,312	104	609,312	
Demand Response	143	1,081,228	0	0	0	0	0	0	60	50,000	142	0	200	0			342	0	142	0	
Midstream Incentives	0	4,147	0	0	0	0	0	0	0	0	0	0					0	0	0	0	
New Construction	3	29,169	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	
Low Income	0	0	0	0	0	0	1	43,570	0	30,000	2	38,406	0	70,000			3	151,976	3	81,976	
Provincial Consumer Total	186	1,864,315	62	1,116,769	37	420,467	38	548,034	90	320,000	186	349,317	270	250,000	0	0	556	2,264,120	286	2,014,120	
OEB Approved Programs																					
General Consumer		0	0	0	0	0	0	0						0			0	0	0	0	
Low Income		0	0	0	0	0	0	0						0			0	0	0	0	
OEB Approved Programs Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Consumer Program Total	186	1,864,315	62	1,116,769	37	420,467	38	548,034	90	320,000	186	349,317	270	250,000	0	0	556	2,264,120	286	2,014,120	
	Annual Mil	lestone - Co	ntribution t	o 2014 Targ	et																
	2011 (Original	A - t 1 200	11 DIL-	2012 F	2012 Revised		2012 De eville	2013 Revised		Astrol 2012 Describe		2014 Revised		Actual 2014 Results		Revised Total		Contribution to Target		
	Strategy Projection		Actual 2011 Results		Strategy Projection		Actual 2012 Results		Strategy Projection		Actual 2013 Results		Strategy Projection		Actual 2014 Results		Projected Reduction		Contribution to Target		
Category - Commercial & Institutional	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	
Provincial Programs																					
Existing Building Retrofits – Medium and																					
Large Buildings	207	2,108,736	16	466,577	200	1,400,000	162	2,030,783	130	1,130,000	141	1,639,281	230	1,010,000			549	5,146,641	319	4,136,641	
Existing Building Retrofits – Small Buildings	87	1,844,314	32	564,184	33	629,189	45	519,591	70	440,000	106	798,545	250	770,000			433	2,652,320	183	1,882,320	
Small Commercial Demand Response	0	0	0	0	0	0	0	0									0	0	0	0	
Demand Response 1 & 3	0	0	37	1,451	39	1,223	0	542	0	0	1	505	0	0			38	2,498	38	2,498	
Provincial Commercial & Inst. Total	294	3,953,050	85	1,032,212	272	2,030,412	207	2,550,916	200	1,570,000	248	2,438,331	480	1,780,000	0	0	1,020	7,801,459	540	6,021,459	
OEB Approved Programs																					
Retrofits																	0	0	0	0	
New Construction																	0	0	0	0	
OEB Approved Programs Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
,																					
Commercial & Inst. Total	204	3,953,050	85	1,032,212	272	2,030,412	207	2,550,916		1,570,000		2,438,331	480	1.780.000	0	0	1,020	7,801,459	540	6,021,459	

	Annual Mi	lestone - Co	ontribution to	2014 Targ	et															
	2011 Original Strategy Projection		Actual 2011 Results		2012 Revised Strategy Projection		Actual 2012 Results		2013 Revised Strategy Projection		Actual 2013 Results		2014 Revised Strategy Projection		Actual 2014 Results		Revised Total Projected Reduction		Contribution to Target	
Category - Industrial	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Program Name																				
Industrial Accelerator	31	760,452			0	0	0	0									0	0	0	0
Industrial Equipment Replacement	24	524,476	3	81,948	8	150,000	0	0									3	81,948	3	81,948
Demand Response 1	0	0					0	0									0	0	0	0
Demand Response 3	0	0					0	0									0	0	0	0
Provincial Industrial Total	55	1,284,928	3	81,948	8	150,000	0	0	0	0	0	0	0	0	0	0	3	81,948	3	81,948
OEB Approved Programs																				
A	0	0	0	0	0	0	0	0	0	0			0	0			0	0	0	0
В	0	0	0	0	0	0	0	0	0	0			0	0			0	0	0	0
OEB Approved Programs Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industrial Total	55	1,284,928	3	81,948	8	150,000	0	0	0	0	0	0	0	0	0	0	3	81,948	3	81,948
	2011 Original Strategy Projection		Actual 2011 Results		2012 Revised Strategy Projection		Actual 2012 Results		2013 Revised Strategy Projection		Actual 2013 Results		2014 Revised Strategy Projection		Actual 2014 Results		Revised Total Projected Reduction		Contribution to Target	
CDM Strategy Total	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Program Total	535	7,102,293	150	2,230,929	317	2,600,879	245	3,098,950	290	1,890,000	434	2,787,648	750	2,030,000	0	0	1,579	10,147,527	829	8,117,527
2010 Contribution			47	963,527	6	29,450	0	939									47	964,466	47	964,466
Adjustments to Verified Final Results							-14	-347,311			39	874,814					25	527,503	25	527,503
Adjusted Total	535	7,102,293	197	3,194,456	323	2,630,329	231	2,752,578	290	1,890,000	473	3,662,462	750	2,030,000	0	0	1,651	11,639,496	901	9,609,496
															Target to	Achieve	3,140	14,970,000		
	2011 Original Strategy Projection		Actual 2011 Results		2012 Revised Strategy Projection		Actual 2012 Results		2013 Revised Strategy Projection		Actual 2013 Results		2014 Revised Strategy Projection		Actual 2014 Results		Revised Total Projected Reduction		Contribution to Target	
Percentage of Target	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
	17.0%	47.4%	6.3%	21.3%	10.3%	17.6%	7.4%	18.4%	9.2%	12.6%	15.1%	24.5%	23.9%	13.6%	0.0%	0.0%	53%	77.8%	28.7%	64.2%

Conclusion

Over the course of 2013, Collus PowerStream has achieved 0.7 MW in peak demand savings and 9.6 GWh in energy savings, which represents 29% and 64% of Collus PowerStream 2014 target, respectively. These results are representative of a considerable effort expended by Collus PowerStream, in cooperation with other LDCs, customers, channel partners and stakeholders to overcome many operational and structural issues that limited program effectiveness across all market sectors. This achievement is a success and the relationships built within the 2011-2014 CDM program term will aid results in a subsequent CDM term.

However, despite continuing improvements to existing programs Collus PowerStream faces challenges in the remaining year of the current CDM framework. With the current slate of available OPA Programs, and the current forecast of implementation and projected savings, Collus PowerStream expects to achieve 53% of their peak demand savings target and 78% of the energy savings target by the end of 2014.

Collus PowerStream will continue to work with the current portfolio to ensure the maximum contribution to target is achieved. However, there is limited opportunity to make valuable changes to the current program portfolios and have these changes reflected in LDC 2014 results. LDCs and the OPA can build on the strengths and key successes of the 2011-2014 programs to launch the 2015 to 2020 Conservation First Framework to meet the needs of the industry and consumers.

Appendix A: Initiative Descriptions

Residential Program

APPLIANCE RETIREMENT INITIATIVE (Exhibit D)

Target Customer Type(s): Residential Customers

Initiative Frequency: Year round

Objectives: Achieve energy and demand savings by permanently decommissioning certain older, inefficient refrigeration appliances.

Description: This is an energy efficiency Initiative that offers individuals and businesses free pick-up and decommissioning of old large refrigerators and freezers. Window air conditioners and portable dehumidifiers will also be picked up if a refrigerator or a freezer is being collected.

Targeted End Uses: Large refrigerators, large freezers, window air conditioners and portable dehumidifiers.

Delivery: OPA centrally contracts for the province-wide marketing, call centre, appliance pick-up and decommissioning process. LDC's provides local marketing and coordination with municipal pick-up where available.

Additional Detail: Schedule B-1, Exhibit D on the OPA extranet and saveONenergy website

In Market Date: March 13, 2011

APPLIANCE EXCHANGE INITIATIVE (Exhibit E)

Target Customer Type(s): Residential Customers

Initiative Frequency: Spring and Fall

Objective: The objective of this Initiative is to remove and permanently decommission older, inefficient window air conditioners and portable dehumidifiers that are in Ontario.

Description: This Initiative involves appliance exchange events. Exchange events are held at local retail locations and customers are encouraged to bring in their old room air conditioners (AC) and dehumidifiers in exchange for coupons/discounts towards the purchase of new energy efficient equipment. Window ACs were discontinued from the program in 2013.

Targeted End Uses: Window air conditioners and portable dehumidifiers

Delivery: OPA contracts with participating retailers for collection of eligible units. LDCs provide local marketing.

Additional Detail: Schedule B-1, Exhibit C on the OPA extranet and SaveONenergy website

In Market Date: March 13, 2011

HVAC INCENTIVES INITIATIVE (Exhibit B)

Target Customer Type(s): Residential Customers

Initiative Frequency: Year round

Objective: The objective of this Initiative is to encourage the replacement of existing heating systems with high efficiency furnaces equipped with Electronically Commutated Motors (ECM), and to replace existing central air conditioners with ENERGY STAR qualified systems and products.

Description: This is an energy efficiency Initiative that provides rebates for the replacement of old heating or cooling systems with high efficiency furnaces (equipped with ECM) and ENERGY STAR® qualified central air conditioners by approved Heating, Refrigeration, and Air Conditioning Institute (HRAI) qualified contractors.

Targeted End Uses: Central air conditioners and furnaces

Delivery: OPA contracts centrally for delivery of the program. LDCs provide local marketing and encourage local contractors to participate in the Initiative.

Additional Detail: Schedule B-1, Exhibit B on the OPA extranet and saveONenergy website

In Market Date: March 13, 2011

CONSERVATION INSTANT COUPON INITIATIVE (Exhibit A)

Target Customer Type(s): Residential Customers

Initiative Frequency: Year round

Objective: The objective of this Initiative is to encourage households to purchase energy efficient products by offering discounts.

Description: This Initiative provides customers with year round coupons. The coupons offer instant rebates towards the purchase of a variety of low cost, easy to install energy efficient measures and can be redeemed at participating retailers. Booklets were directly mailed to customers and were also available at point-of-purchase. Downloadable coupons were also available at www.saveoneenergy.ca.

Targeted End Uses: ENERGY STAR® qualified Standard Compact Fluorescent Lights ("CFLs"),ENERGY STAR® qualified Light Fixtures lighting control products, weather-stripping, hot water pipe wrap, electric water heater blanket, heavy duty plug-in Timers, Advanced power bars, clothesline, baseboard programmable thermostats.

Delivery: The OPA develops the electronic version of the coupons and posts them online for download. Three LDC specific coupons were made available for local marketing and utilization by LDCs. The OPA enters into agreements with retailers to honour the coupons.

Additional Detail: Schedule B-1, Exhibit A on the OPA extranet and saveONenergy website

In Market Date: March 13, 2011

BI-ANNUAL RETAILER EVENT INITIATIVE (Exhibit C)

Target Customer Type(s): Residential Customers

Initiative Frequency: Bi-annual events

Objective: The objective of this Initiative is to provide instant point of purchase discounts to individuals at participating retailers for a variety of energy efficient products.

Description: Twice a year (Spring and Fall), participating retailers host month-long rebate events. During the months of April and October, customers are encouraged to visit participating retailers where they can find coupons redeemable for instant rebates towards a variety of low cost, easy to install energy efficient measures.

Targeted End Uses: As per the Conservation Instant Coupon Initiative

Delivery: The OPA enters into arrangements with participating retailers to promote the discounted products, and to post and honour related coupons. LDCs also refer retailers to the OPA and market this initiative locally.

Additional Detail: Schedule B-1, Exhibit C on the OPA extranet and saveONenergy website

In Market Date: March 2011

In Market Date: March 13, 2011

RETAILER CO-OP

Target Customer Type(s): Residential Customers

Initiative Frequency: Year Round

Objective: Hold promotional events to encourage customers to purchase energy efficiency measures (and go above-and-beyond the traditional Bi-Annual Coupon Events).

Description: The Retailer Co-op Initiative provides LDCs with the opportunity to work with retailers in their service area by holding special events at retail locations. These events are typically special promotions that encourage customers to purchase energy efficiency measures (and go above-and-beyond the traditional Bi-Annual Coupon Events).

Targeted End Uses: As per the Conservation Instant Coupon Initiative

Delivery: Retailers apply to the OPA for co-op funding to run special promotions that promote energy efficiency to customers in their stores. LDCs can refer retailers to the OPA. The OPA provides each LDC with a list of retailers who have qualified for Co-Op Funding as well as details of the proposed special events.

In Market Date: March 13, 2011

NEW CONSTRUCTION PROGRAM (Schedule B-2)

Target Customer Type(s): Residential Customers

Initiative Frequency: Year round

Objective: The objective of this Initiative is to provide incentives to participants for the purpose of promoting the construction of energy efficient residential homes in the Province of Ontario.

Description: This is an energy efficiency Initiative that provides incentives to homebuilders for constructing new homes that are efficient, smart, and integrated (applicable to new single family dwellings). Incentives are provided in two key categories as follows:

- o Incentives for homebuilders who install electricity efficiency measures as determined by a prescriptive list or via a custom option.
- o Incentives for homebuilders who meet or exceed aggressive efficiency standards using the EnerGuide performance rating system.

Targeted End Uses: All off switch, ECM motors, ENERGY STAR® qualified central a/c, lighting control products, lighting fixtures, Energuide 83 whole home, energuide 85 whole homes

Delivery: Local engagement of builders will be the responsibility of the LDC and will be supported by OPA air coverage driving builders to their LDC for additional information.

Additional Detail: Schedule B-1, Exhibit C on the OPA extranet and saveONenergy website

In Market Date: March 13, 2011

RESIDENTIAL DEMAND RESPONSE PROGRAM (Schedule B-3)

Target Customer Type(s): Residential and Small Commercial Customers

Initiative Frequency: Year round

Objective: The objectives of this Initiative are to enhance the reliability of the IESO-controlled grid by accessing and aggregating specified residential and small commercial end uses for the purpose of load reduction, increasing consumer awareness of the importance of reducing summer demand and providing consumers their current electricity consumption and associated costs.

Description: In *peaksaver*PLUS ™ participants are eligible to receive a free programmable thermostat or switch, including installation. Participants also receive access to price and real-time consumption information on an In Home Display (IHD).

Targeted End Uses: central air conditioning, electric hot water heaters and pool pumps

Delivery: LDC's recruit customers and procure technology

Additional Detail: Schedule B-1, Exhibit C on the OPA extranet and saveONenergy website

In Market Date: August 29, 2013

C&I Program

EFFICIENCY: EQUIPMENT REPLACEMENT INCENTIVE (ERII) (Schedule C-2)

Target Customer Type(s): Commercial, Institutional, Agricultural and Industrial Customers

Initiative Frequency: Year round

Objective: The objective of this Initiative is to offer incentives to non-residential distribution customers to achieve reductions in electricity demand and consumption by upgrading to more energy efficient equipment for lighting, space cooling, ventilation and other measures.

Description: The Equipment Replacement Incentive Initiative (ERII) offers financial incentives to customers for the upgrade of existing equipment to energy efficient equipment. Upgrade projects can be classified into either: 1) prescriptive projects where prescribed measures replace associated required base case equipment; 2) engineered projects where energy and demand savings and incentives are calculated for associated measures; or 3) custom projects for other energy efficiency upgrades.

Targeted End Uses: lighting, space cooling, ventilation and other measures

Delivery: LDC delivered.

Additional Detail: Schedule C-2 on the OPA extranet and saveONenergy website

In Market Date: March 13, 2011

Lessons Learned:

DIRECT INSTALL INITIATIVE (DIL) (Schedule C-3)

Target Customer Type(s): Small Commercial, Institutional, Agricultural facilities and multi-family buildings

Initiative Frequency: Year round

Objective: The objective of this Initiative is to offer a free installation of eligible lighting and water heating measures of up to \$1,500 to eligible owners and tenants of small commercial, institutional and agricultural facilities and multi-family buildings, for the purpose of achieving electricity and peak demand savings.

Description: The Direct Installed Lighting Initiative targets customers in the General Service <50kW account category. This Initiative offers turnkey lighting and electric hot water heater measures with a value up to \$1,500 at no cost to qualifying small businesses. In addition, standard prescriptive incentives are available for eligible equipment beyond the initial \$1,500 limit.

Target End Uses: Lighting and electric water heating measures

Delivery: Participants can enroll directly with the LDC, or would be contacted by the LDC/LDC-designated representative.

Additional Detail: Schedule C-3 on the OPA extranet and saveONenergy website

Initiative Activities/Progress:

In Market Date: March 13, 2011

EXISTING BUILDING COMMISSIONING INCENTIVE INITIATIVE (Schedule C-6)

Target Customer Type(s): Commercial, Institutional, and Agricultural Customers

Initiative Frequency: Year round

Objective: The objective of this Initiative is to offer incentives for optimizing (but not replacing) existing chilled water systems for space cooling in non-residential facilities for the purpose of achieving implementation phase energy savings, implementation phase demand savings, or both.

Description: This Initiative offers Participants incentives for the following:

- scoping study phase
- investigation phase
- implementation phase
- hand off/completion phase

Targeted End Uses: Chilled water systems for space cooling

Delivery: LDC delivered.

Additional Detail: Schedule C-6 on the OPA extranet and SaveONenergy website Additional detail is available:

Initiative Activities/Progress:

In Market Date: March 13, 2011

NEW CONSTRUCTION AND MAJOR RENOVATION INITIATIVE (HPNC) (Schedule C-4)

Target Customer Type(s): Commercial, Institutional, Agricultural and Industrial Customers

Initiative Frequency: Year round

Objective: The objective of this Initiative is to encourage builders/major renovators of commercial, institutional, and industrial buildings (including multi-family buildings and agricultural facilities) to reduce electricity demand and/or consumption by designing and building new buildings with more energy-efficient equipment and systems for lighting, space cooling, ventilation and other Measures.

Description: The New Construction initiative provides incentives for new buildings to exceed existing codes and standards for energy efficiency. The initiative uses both a prescriptive and custom approach.

Targeted End Uses: New building construction, building modeling, lighting, space cooling, ventilation and other Measures

Delivery: LDC delivers to customers and design decision makers.

Additional Detail: Schedule C-4 on the OPA extranet and SaveONenergy website

Initiative Activities/Progress:

In Market Date: March 13, 2011

ENERGY AUDIT INITIATIVE (Schedule C-1)

Target Customer Type(s): Commercial, Institutional, Agricultural and Industrial Customers

Initiative Frequency: Year round

Objective: The objective of this Initiative is to offer incentives to owners and lessees of commercial, institutional, multi-family buildings and agricultural facilities for the purpose of undertaking assessments to identify all possible opportunities to reduce electricity demand and consumption within their buildings or premises.

Description: This Initiative provides participants incentives for the completion of energy audits of electricity consuming equipment located in the facility. Energy audits include development of energy baselines, use assessments and performance monitoring and reporting.

Targeted End Uses: Various

Delivery: LDC delivered.

Additional Detail: Schedule C-1 on the OPA extranet Schedule C-1 and saveONenergy website

https://saveonenergy.ca/Business/Program-Overviews/Audit-Funding.aspx

Initiative Activities/Progress:

In Market Date: March 13, 2011

Industrial Program

PROCESS & SYSTEMS UPGRADES INITIATIVE (PSUI) (Schedule D-1)

Target Customer Type(s): Industrial, Commercial, Institutional and Agricultural Customers

Initiative Frequency: Year round

Objectives: The objectives of this Initiative are to:

 Offer distribution customers capital incentives and enabling initiatives to assist with the implementation of large projects and project portfolios;

• Implement system optimization project in systems which are intrinsically complex and capital intensive;

• Increase the capability of distribution customers to implement energy management and system optimization projects.

Description: PSUI is an energy management Initiative that includes three Initiatives: (preliminary engineering study, detailed engineering study, and project incentive Initiative). The incentives are available to large distribution connected customers with projects or portfolio projects that are expected to generate at least 350 MWh of annualized electricity savings or, in the case of Micro-Projects, 100 MWh of annualized electricity savings. The capital incentive for this Initiative is the lowest of:

a) \$200/MWh of annualized electricity savings

b) 70% of projects costs

c) A one year pay back

Targeted End Uses: Process and systems

Delivery: LDC delivered with Key Account Management support, in some cases.

Additional Detail: Schedule D-1 on the OPA extranet and saveONenergy website

https://saveonenergy.ca/Business.aspx

In Market Date: March 13, 2011

MONITORING & TARGETING INITIATIVE (Schedule D-2)

Target Customer Type(s): Industrial, Commercial, Institutional and Agricultural Customers

Initiative Frequency: Year round

Objective: This Initiative offers access to funding for the installation of Monitoring and Targeting systems in order to deliver a minimum savings target at the end of 24 months and sustained for the term of the M&T Agreement.

Description: This Initiative offers customers funding for the installation of a Monitoring and Targeting system to help them understand how their energy consumption might be reduced. A facility energy manager, who regularly oversees energy usage, will now be able to use historical energy consumption performance to analyze and set targets.

Targeted End Uses: Process and systems

Delivery: LDC delivered with Key Account Management support, in some cases.

Additional Detail: Schedule D-2 on the OPA extranet and saveONenergy website

https://saveonenergy.ca/Business.aspx

In Market Date: March 13, 2011

ENERGY MANAGER INITIATIVE (Schedule D-3)

Target Customer Type(s): Industrial, Commercial, Institutional and Agricultural Customers

Initiative Frequency: Year round

Objective: The objective of this initiative is to provide customers and LDCs the opportunity to access funding for the engagement of energy managers in order to deliver a minimum annual savings target.

Description: This Initiative provides customers the opportunity to access funding to engage an on-site, full time embedded energy manager, or an off-site roving energy manager who is engaged by the LDC. The role of the energy manager is to take control of the facility's energy use by monitoring performance, leading awareness programs, and identifying opportunities for energy consumption improvement, and spearheading projects. Participants are funded 80% of the embedded energy manager's salary up to \$100,000 plus 80% of the energy manager's actual reasonable expenses incurred up to \$8,000 per year. Each embedded energy manager has a target of 300 kW/year of energy savings from one or more facilities. LDCs receive funding of up to \$120,000 for a Roving Energy Manager plus \$8,000 for expenses.

Targeted End Uses: Process and systems

Delivery: LDC delivered with Key Account Management support, in some cases.

Additional Detail: Schedule D-3 on the OPA extranet and saveONenergy website

https://saveonenergy.ca/Business.aspx

In Market Date: September, 2012

KEY ACCOUNT MANAGER (KAM) (Schedule D-4)

Target Customer Type(s): Industrial, Commercial, Institutional and Agricultural Customers

Initiative Frequency: Year round

Objective: This initiative offers LDCs the opportunity to access funding for the employment of a KAM in order to support them in fulfilling their obligations related to the PSUI.

Description: This Initiative provides LDCs the opportunity to utilize a KAM to assist their customers. The KAM is considered to be a key element in assisting the consumer in overcoming traditional barriers related to energy management and help them achieve savings since the KAM can build relationships and become a significant resource of knowledge to the customer.

Targeted End Uses: Process and systems

Delivery: LDC delivered

Additional Detail: ScheduleD-4 on the OPA extranet.

In Market Date: Not in market 2011-2013

DEMAND RESPONSE 3 (Schedule D-6)

Target Customer Type(s): Industrial, Commercial, Institutional and Agricultural Customers

Initiative Frequency: Year round

Objective: This Initiative provides for Demand Response ("DR") payments to contracted participants to compensate them for reducing their electricity consumption by a pre-defined amount during a DR event.

Description: Demand Response 3 ("DR3") is a demand response Initiative for commercial and industrial customers, of 50 kW or greater to reduce the amount of power being used during certain periods of the year. The DR3 Initiative is a contractual resource that is an economic alternative to procurement of new generation capacity. DR3 comes with specific contractual obligations requiring participants to reduce their use of electricity relative to a baseline when called upon. This Initiative makes payments for participants to be on standby and payments for the actual electricity reduction provided during a demand response event. Participants are scheduled to be on standby approximately 1,600 hours per calendar year for possible dispatch of up to 100 hours or 200 hours within that year depending on the contract.

Targeted End Uses: Commercial and Industrial Operations

Delivery: DR3 is delivered by Demand Response Providers ("DRPs"), under contract to the OPA. The OPA administers contracts with all DRPs and Direct Participants (who provide in excess of 5 MW of demand response capacity). OPA provides administration including settlement, measurement and verification, and dispatch. LDCs are responsible for local customer outreach and marketing efforts.

Additional Detail: Schedule D-6 available on the OPA and SaveONenergy website

https://saveonenergy.ca/Business.aspx

In Market Date: January 2011

It is noted that while the Schedule for this Initiative was not posted until May 2011, the Aggregators reported that

they were able to enroll customers as of January 2011.

LOW INCOME INITIATIVE (HOME ASSISTANCE PROGRAM) (Schedule E-1)

Target Customer Type(s): Income Qualified Residential Customers

Initiative Frequency: Year Round

Objective: The objective of this Initiative is to offer free installation of energy efficiency measures to income

qualified households for the purpose of achieving electricity and peak demand savings.

Description: This is a turnkey Initiative for income qualified customers. It offers residents the opportunity to take advantage of free installation of energy efficient measures that improve the comfort of their home, increase efficiency, and help them save money. All eligible customers receive a Basic and Extended Measures Audit, while customers with electric heat also receive a Weatherization Audit. The Initiative is designed to coordinate efforts

with gas utilities.

Targeted End Uses: End use measures based on results of audit (i.e. compact fluorescent light bulbs)

Delivery: LDC delivered.

Additional Detail: Schedule E available on the OPA extranet.

Initiative Activities/Progress:

BPI took the lead on a group RFP for Home Assistance Program provider in 2011. Due to the delay in schedule

release, and the time required for the RFP process, BPI was not in market in 2011, however launched in early 2012.

In Market Date: April 23, 2012

Appendix B: Pre-2011 Programs

ELECTRICITY RETROFIT INCENTIVE PROGRAM

Target Customer Type(s): Commercial, Institutional, and Agricultural Customers

Initiative Frequency: Year Round

Objective: The objective of this Initiative is to offer incentives to non-residential distribution customers to achieve reductions in electricity demand and consumption by upgrading to more energy efficient equipment for lighting,

space cooling, ventilation and other measures.

Description: The Equipment Replacement Incentive Program (ERIP) offered financial incentives to customers for the upgrade of existing equipment to energy efficient equipment. This program was available in 2010 and allowed customers up to 11 months following Pre-Approval to complete their projects. As a result, a number of projects Pre-Approved in 2010 were not completed and in-service until 2011. The electricity savings associated with these projects are attributed to 2011.

Targeted End Uses: Electricity savings measures

Delivery: LDC Delivered

HIGH PERFORMANCE NEW CONSTRUCTION

Target Customer Type(s): Commercial, Institutional, and Agricultural Customers

Initiative Frequency: Year round

Objective: The High Performance New Construction Initiative provided incentives for new buildings to exceed existing codes and standards for energy efficiency. The Initiative uses both a prescriptive and custom approach and was delivered by Enbridge Gas under contract with the OPA (and subcontracted to Union Gas), which ran until December 2010.

Description: The objective of this Initiative is to encourage builders of commercial, institutional, and industrial buildings (including multi-family buildings and agricultural facilities) to reduce electricity demand and/or consumption by designing and building new buildings with more energy-efficient equipment and systems for lighting, space cooling, ventilation and other Measures.

Targeted End Uses: New Building construction, building modeling, lighting, space cooling, ventilation and other measures

Delivery: Through Enbridge Gas (and subcontracted to Union Gas)

MULTIFAMILY ENERGY EFFICIENCY REBATES

Target Customer Type(s): Residential Multi-unit buildings

Initiative Frequency: Year round

Objective: Improve energy efficiency of Multi-unit building

Description: OPA's Multifamily Energy Efficiency Rebates (MEER) Initiative applies to multifamily buildings of six units or more, including rental buildings, condominiums, and assisted social housing. The OPA contracted with GreenSaver to deliver the MEER Initiative outside of the Toronto Hydro service territory. Activities delivered in Toronto were contracted with the City.

Similar to ERII and ERIP, MEER provides financial incentives for prescriptive and custom measures, but also funds resident education. Unlike ERII, where incentives are paid by the LDC, all incentives through MEER are paid through the contracted partner (i.e. GreenSaver).

Targeted End Uses: Electricity saving measures

Delivery: OPA contracted with Greensaver