

September 30, 2013

Kirsten Walli Board Secretary Ontario Energy Board P.O.Box 2319 Suite 2700 Toronto, Ontario M4P 1E4

# Re: EB-2010-0215 - 2012 CDM Annual Report – Wasaga Distribution

Dear Ms Walli:

Attached please find the Annual CDM Report 2012 prepared for Wasaga Distribution ("WDI").

The Conservation and Demand Management Code for Electricity Distributors requires a distributor to file an annual report with the Board. The attached Annual Report is therefore prepared accordingly and covers the period from January 1, 2012 to December 31, 2012.

The Annual CDM Report 2012 for WDI also includes an overview document which relates the experience of the CHEC Member LDCs which WDI works in collaboration with to deliver CDM programs.

Yours truly,

U. Menga

David Stavinga Manager, Energy Services Wasaga Distribution Inc.

**Cornerstone Hydro Electric Concepts (CHEC)** 

# Combined Conservation and Demand Management Annual Report 2012

EB-2010-0215

# **Collaboration for Conservation**



September 30, 2013





# Cornerstone Hydro Electric Concepts Association Inc.

# **Executive Summary:**

This represents the 2012 year 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 second year of the program the residential portfolio did not meet expectations and did not perform at the same level as the first year. The lower than expected performance in the residential market place has had impact on all of the LDCs. The negative effect is most pronounced in LDCs with primarily high residential loads.

Customers continue to show interest in the Demand Response (DR) initiative with a number of new entries in the DR initiative. Unfortunately the second year of the initiative has seen a number of customers leave the initiative. These changes illustrated the customer interest in the initiative however they also illustrate that customers are not satisfied with the performance or impact of the initiative as related to their business. DR is seen as a crucial element to achieve the demand target. The initiative needs to be tailored to meet the customer needs aimed at maintaining their participation in the initiative.

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. While the impact of the REM is limited in 2012 it is anticipated that this resource will assist to drive applications in the remaining years of the program.

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 anticipated target completion is 87.6% of demand and 99% of the energy targets. The individual reports filed by the member LDCs outline their continued commitment and expectations for the two remaining years.





# Cornerstone Hydro Electric Concepts Association Inc.

# 1.0 <u>Introduction:</u>

Cornerstone Hydro Electric Concepts Association (CHEC) is an association of thirteen (13) Local Distribution Companies (LDCs). The CHEC member LDCs have prepared this Conservation and Demand Management (CDM) Annual Report 2012 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 a recent addition to the CHEC Association.

# 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 Power
- 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 template developed and shared by the Electricity Distributors Association (EDA) with LDCs.

# 2.0 <u>CDM Targets for Electricity Demand (MW) and Electricity Consumption (GWh)</u>:

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	<b>Revised Target</b>
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 <u>Progress toward Achieving Target</u>

Table 2 and Table 3 provide summaries of the progress made by CHEC LDCs in 2012 towards the combined demand target. 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)

Implementation Period	Annual (MW)							
	2011	2012	2013	2014				
2011 - Verified	4.89	4.89	4.89	4.89				
2012		1.87	1.87	1.87				
2013								
2014								
Verified Net Annual Peal	k Demand Saving	s in 2014 (incl	uding DR):	6.76				
Combined	CHEC 2014 Annua	al CDM Capac	ity Target:	25.72				
Verified Portion of Pe	ak Demand Savin	gs Target Ach	ieved (%):	26.3%				
Combined CHE	30.8%							
Variance:				-4.5%				

Note: Table includes DR

Table 2 includes the contribution from Demand Response (DR) Initiatives as these represent action within the reporting period. Reporting DR reflects the activity in the given year and to date. It is recognized that only DR in place at the end of 2014 will be attributed to the achieved target.

Removal of the DR contribution results in the Peak Demand Savings being reduced by 2,255 kW which represent 8.8% of the 2014 target. After removing DR the verified peak demand savings in 2014 would be 17.5%.

Contribution toward the peak target after two years of program delivery is lagging slightly below the strategy targets. The reported results include DR as noted on the tables. The exclusion of DR within the reporting would not present an accurate picture of target achievement and would improperly state the variance from strategy as LDCs included DR in the strategies filed. Currently LDCs include 4,500 kW of DR in the strategies with approximately 1,800 kW of DR obtained to date. Over the reporting period LDCs have seen the loss of DR which has been included in the 2012 reporting in the cumulative results.

While the progress is only 4.5% off the strategy it must be realized that the combined strategies have been adjusted (2011 and 2012 adjustments) to predict a shortfall of 3.2 MW which represents 12.4% below the peak target. The progress to peak target without DR included (17.5%) approaches the provincial average of 17.8% target achieved.

Implementation Period	Cumulative (MWh)								
	2011	2012	2013	2014	2011-2014				
2011 - Verified	10,250	10,250	10,250	10,250	41,000				
2012		10,058	10,058	10,058	30,174				
2013									
2014									
Verif	ied Net Cum	ulative Energ	gy Savings 2	011-2014:	71,174				
Combined CH	IEC 2011-202	14 Cumulativ	e CDM Ener	gy Target:	119,510				
Verified Port	ion of Cumu	llative Energy	/ Target Ach	ieved (%):	59.6%				
Combined CHEC S	Combined CHEC Strategy, Milestone submitted for 2011 & 2012								
Variance :					-7.9%				

Table 3 Combined Net Energy Savings at End User Level

Energy savings continue to be strong with annual incremental savings staying consistent in the range of 10 MWh. While significant the achieved energy savings is 7.9% below the proposed savings at this time. Current review of the strategies indicated that the rate of savings will need to increase to achieve the MWh target. Currently the CHEC LDC combined MWh savings is

lagging behind the provincial average of 65.1%. LDCs' performance varies due to local parameters which are addressed in the addendums.

# 4.0 <u>General Conditions Impacting Strategy Performance:</u>

This section outlines issues which have impacted on the progress of Strategies and some of the general lessons learned over the second year of the program. While there have been many successes there remains 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:

Over the first two years of delivery the full portfolio of OPA programming proposed has not been developed and prepared for delivery. Further, replacement programs have not been developed on the provincial level. The impact of these initiatives not being in market and/or has a twofold impact. 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. Improved performance of the in-market initiative would be assisted by the heightened customer awareness.

# 4.2 Roving Energy Manager:

CHEC LDCs applied for funding to cover the cost of a Roving Energy Manager to assist member LDCs. Application approval took several months which impacted on the ability to move forward with the engagement of a candidate (as noted in 2011 report). The ability to find a qualified energy manager to fill the position proved to be a challenge. The position was filled in September of 2012 with initial customer contacts commencing soon after becoming familiar with the service territories. Since procurement of the REM it is apparent what a benefit the position is in approaching commercial and industrial customers. An earlier approval (and market availability of candidates) would have resulted in positive results. The REM continues to have a primary role in generating both peak and energy savings.

# 4.3 Residential Program Performance:

The residential programs have performed well below 2011 levels. The reduced level of provincial advertising, method to share coupons and saturation of technologies impacted on the performance.

Provincial advertising is seen to have an impact on awareness of the programs as the OPA can access markets which the LDC may not be able to effectively approach. While LDCs can complete local marketing the widespread campaigns initiated by the OPA are seen as critical for overall success.

A number of LDCs noted issues with the distribution of coupons and the need for customers to print coupons. Any barrier presented to the customer limits response. While perhaps appearing to be cost effective, not providing coupons in an easy to access method reduces the number of coupons utilized.

Initiatives like the Appliance Retirement program have been in the market for some time. The number of eligible appliances has been significantly impacted by several years of successful delivery. A re-vitalization of the program may assist to acquire further appliances however the opportunity may be limited.

For LDCs with a large residential proportion of load the significance of weaker performance in the residential program impacts heavily in 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<sup>®</sup>) has been identified in most strategies as being a key contributor to obtaining significant peak target from the residential sector. Unfortunately the ability to deliver state of the art equipment to meet today's requirements while providing future functionality has proved challenging.

*peaksaver* PLUS<sup>®</sup> was not initiated until early in 2012 due to the limited capabilities of the technologies, specifically the in home display. Technologies available offered a number of challenges for LDCs and customers alike. Many of the available units relied on batteries, did not offer the capability to update rate schedules, did not vary with time of use and time of year and/or only presented the energy portion of the customer's bill.

CHEC LDCs released an RFP for a supplier of service and technology in late 2012. While the technology was not at the preferred stage of development, it was recognized that to meet the requirements of the initiative procurement and delivery in 2013 would be required. The release of the RFP late in 2012 was deemed the most appropriate to allow two summer seasons for promoting the program.

# 4.5 Relationship with Customers:

During the second year of the program it was noted in some service territories that relationships built with organizations and municipal representatives were challenged with staff changes. With programs which extend over several years the key contact, both customer and

LDCs, may change. This was not necessarily a challenge anticipated and LDCs found they were re-educating the new decisions makers about the programs, the opportunities and the benefits. These changes have reinforced the need to approach customers multiple times to ensure that the knowledge of the programs remains current.

# 4.6 Ministry Extension of Program into 2015:

The Minister's Directive to extend the programs into 2015 has removed the incentive for customers to complete applications by December 31, 2014. The extension of the program removes the ability for LDCs to expedite/promote application completion prior to program changes and/or termination. While continuation of the opportunities for customers is supported, the lack of coordination between the LDC targets achievements and the program extension may prove to be problematic.

# 4.7 OEB Approved Programs:

OEB Approved Programs were included in 6 of the 12 LDCs Strategies filed in 2010. Initially it was anticipated that OEB Approved Programs would form a part of the results within the Strategy.

No OEB Approved Programs were pursued by CHEC. Work on reviewing the opportunity for an education program was pursued. Those discussions ended with conversations at the Ministry level however the initiative did not develop into an OEB approved program application.

The duplication issue with provincial initiatives has limited the potential program concepts as many ideas were based on retrofit of existing equipment which in most instances qualified for custom applications under the ERII initiative.

Time of use contribution to the overall results will be released once the evaluation is completed. These results will better the outcomes noted in this report as no contribution from time of use has been applied at this time.

# 4.8 DR 3 Contribution:

Within the targets achieved to date there is a significant amount of DR 3. Over the second year of the program LDCs have seen new customers enter the program and program participants leave the program. The exit of customers from the program is unfortunate as the opportunity to re-engage the customer may be limited.

With the gap between the achieved peak and the targets set, DR 3 offers an opportunity to significantly increase the peak contribution over a one year period. CHEC LDCs through the assistance of the REM position will ensure customers are aware of DR 3 opportunities and how best to take advantage of the program. Ensuring the customer understands the program and

the impact on their operation is seen as critical to the success of the program. With changes to the DR 3 program LDCs will have access to information identifying customers on the DR 3 program.

# 5.0 <u>Revised CDM Strategy:</u>

The Addendums for each LDC contain a tracking of the CDM Strategy. A number of the LDCs have modified their strategies based on the results to the end of 2012. The review of the strategies includes the results to the end of 2012 as well as the Q1 verified results for 2013 and an estimate of projects in the pipeline. The combined strategy for the 13 CHEC LDCs is summarized in Table 4.

The revised Strategies anticipate a total of 22.5 MW and 118.3 GWh to be saved by December 2014. These projected savings represent 87.6% and 99% 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 2011 Annual Report.

CHEC LDCs remain committed to achieving the targets however results to date indicate that expectations for full target achievement may not be realistic.

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

# Table 4 – CHEC CDM Combined Strategy:

Combined Strategy	Annual Mileston	e - Contributio	n to 2014 Targ	et																
	2011 Origina Projec	0,	Actual 201	1 Results		sed Strategy jection	Actual 2	012 Results		Revised Projection	Actual 201	13 Results		ised Strategy jection	Actual 201	4 Results		ed Total d Reduction	Contributio	on 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	73	2,101,386	77	1,124,617	72	1,216,066	58	732,121	0	0	61	354,784	0	0	264	4,238,306	145	3,317,452
Instant Discounts (Rebates)	28	2,893,444	58	3,942,107	28	1,787,544	33	1,713,722	19	927,638	0	0	22	571,319	0	0	131	7,358,742	91	5,655,829
HVAC Discounts (Rebates)	205	1,286,117	410	3,173,723	336	1,588,507	284	1,514,924	222	764,551	0	0	259	461,010	0	0	1,233	6,045,846	694	4,688,647
Demand Response	607	3,846,518	130	338	130	338	0	0	1,018	2,977,503	0	0	1,805	2,412,453	0	0	3,083	5,390,632	130	338
Midstream Incentives	3	82,243	0	0	0	0	0	0	2	19,945	0	0	2	9,973	0	0	5	29,918	0	0
New Construction	25	250,419	0	0	1	6,486	0	1,232	28	131,323	0	0	37	90,414	0	0	65	222,969	0	1,202
Low Income	0	0	0	0	11	186,345	13	387,788	156	1,652,205	0	0	159	960,702	0	0	327	2,867,167	13	387,788
Provincial Consumer Total	961	10,483,027	671	9,217,553	583	4,693,837	402	4,833,733	1,504	7,205,286	0	0	2,345	4,860,656	0	0	5,108	26,153,581	1,073	14,051,286
OEB Approved Programs																				
General Consumer	36	0	0	0	0	0	0	0	10	0	0	0	10	0	0	0	20	0	0	0
Low Income	5	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	10	0	0	0
OEB Approved Programs Total	41	0	0	0	0	0	0	0	15	0	0	0	15	0	0	0	30	0	0	0
Consumer Program Total	1,001	10,483,027	671	9,217,553	583	4,693,837	402	4,833,733	1,519	7,205,286	0	0	2,360	4,860,656	0	0	5,138	26,153,581	1,073	14,051,286
	Annual Mileston	e - Contributio	n to 2014 Targ	et																
	2011 Origina Projec		Actual 201	1 Results		sed Strategy jection	Actual 2	012 Results		Revised Projection	Actual 201	13 Results		ised Strategy jection	Actual 201	4 Results		ed Total d Reduction	Contributio	on 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	247	7,087,727	1,712	9,875,529	957	12,473,033	1,443	7,290,139	0	0	1,257	4,493,546	0	0	4,148	29,511,482	1,204	19,560,760
Existing Building Retrofits – Small																				
Buildings	835	16,571,055	400	5,852,737	576	7,733,791	634	7,346,408	1,259	8,097,565	0	0	1,429	4,089,765	0	0	3,872	27,260,416	1,034	13,199,145
Small Commercial Demand																				
Response	19	39,713	56	12	19	1,070	0	0	39	58,569	0	0	97	300,518	0	0	210	359,171	56	12
Demand Response 1 & 3	0	37	594	7,522	120	15,376	-243	21,715	375	60,075	0	0	691	33,366	0	0	1,318	126,130	351	29,237
Provincial Commercial & Inst.																				
Total	1,841	23,952,871	1,297	12,947,998	2,427	17,625,765	1,348	19,841,156	3,117	15,506,348	0	0	3,473	8,917,195	0	0	9,548	57,257,198	2,644	32,789,154
OEB Approved Programs																				
Retrofits	79	0	0	0	0	0	0	0	79	0	0	0	79	0	0	0	158	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	79	0	0	0	158	0	0	0
Commercial & Inst. Total	1,920	23,952,871	1,297	12,947,998	2,427	17,625,765	1,348	19,841,156	3,196	15,506,348	0	0	3,552	8,917,195	0	0	9,706	57,257,198	2,644	32,789,154

# Cornerstone Hydro Electric Concepts Association

	Annual Milestor	ne - Contributio	n to 2014 Targ	et																
	2011 Origin Proje	ction	Actual 201	1 Results		sed Strategy jection	Actual 2	012 Results		Revised Projection	Actual 20			rised Strategy ojection	Actual 201			sed Total d Reduction	Contributio	on 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	31	190,138	0	0	31	190,138	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	469	2,679,274	0	0	1,199	11,876,159	53	2,938,736
Demand Response 1	0	7	0	0	0	0	0	0	0	4	0	0	2	4	0	0	2	8	0	0
Demand Response 3	24	524,494	1,549	90,925	21	436,972	-32	52,874	410	678	0	0	426	50,788	0	0	3,225	222,176	1,517	143,798
Provincial Industrial Total	511	11,935,306	1,602	3,029,661	457	6,013,402	-32	52,874	791	3,361,825	0	0	927	2,920,204	0	0	4,457	12,288,480	1,570	3,082,534
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	-32	52,874	791	3,361,825	0	0	927	2,920,204	0	0	4,457	12,288,480	1,570	3,082,534
	Note: Sums at	ove do not inc	lude Orillia Po	ower's proied	ted or actu	als as Strateg	v not item i	zed by intiativ	es								, i		,	
					00/0 5							<u> </u>								
	2011 Origin Proje	0,	Actual 201	1 Results		sed Strategy jection	Actual 2	012 Results		Revised Projection	Actual 20	13 Results		rised Strategy ojection	Actual 201	14 Results	-	sed Total d Reduction	Contributio	on 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	4,317	29,546,717	3,957	32,093,004	1,849	28,359,333	5,726	30, 193, 459	0	0	8,440	21,128,055	0	0	22,131	110,139,259	6,165	57,906,050
2010 Contribution	0	0	577	11,452,774	6	29,450	31	306,421	0	0	0	0	0	0	0	0	437	8,535,431	608	11,759,195
Adjustments to Verified Final Results	0	0	0	0	0	0	-12	1,508,720	0	0	0	0	0	0	0	0	-31	-340,358	-12	1,508,720
Adjusted Total	3,952	48,501,204	4,894	40,999,491	3,963	32,122,454	1,868	30,174,474	5,726	30,193,459	0	0	8,440	21,128,055	0	0	22,537	118,334,332	6,761	71,173,965
	Note: Sum sin	clude Orillia Po	ower Strategy												Target to	Achieve	25,720	119,510,000		
	2011 Origin Proje		Actual 201	1 Results		sed Strategy jection	Actual 2	012 Results		Revised Projection	Actual 20	13 Results		rised Strategy ojection	Actual 201	14 Results		sed Total d Reduction	Contributio	on 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%	0.0%	0.0%	32.8%	17.7%	0.0%	0.0%	87.6%	99.0%	26.3%	59.6%
	Note: This sect	tion includes O	rillia Power's	Strategy and	Actuals															

# 6.0 <u>Addendums:</u>

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

# Wasaga Distribution Inc.

Addendum 11 – CHEC CDM Combined Annual Report 2012

# Conservation and Demand Management

# 2012 Annual Report

Submitted to:

**Ontario Energy Board** 

Submitted on September 30, 2013

Wasaga Distribution 2012 CDM Annual Report

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# **Executive Summary**

This annual report is submitted by Wasaga Distribution 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 Wasaga Distribution's Strategy. Accordingly, this report outlines Wasaga Distribution CDM activities for the period of January 1, 2012 to December 31, 2012. It includes net peak demand and net energy savings achieved from 2011 and 2012, discussion of the current/future CDM framework, CDM program activities, successes and challenges, as well as forecasted savings to the end of 2014.

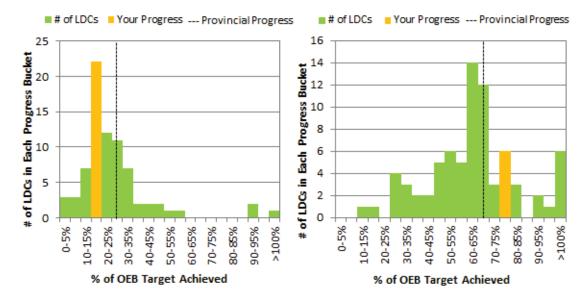
Wasaga Distribution did not apply for any Board-Approved CDM Programs during 2012; however, as noted in the CDM guidelines, released April 26, 2012, the Ontario Energy Board (OEB) has deemed Timeof-Use (TOU) pricing a Province-wide Board-Approved CDM Program. The Ontario Power Authority (OPA) is to provide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

In 2011, Wasaga Distribution 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 Wasaga Distribution 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 and the Peak Saver RFP released. To date Wasaga Distribution 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.

To the end of 2012, as reported by the OPA, Wasaga Distribution has achieved 12.7% of 1.34 MW of net peak demand savings (17.7% including Commercial & Institutional Demand Response 1) and 75.8% of



4.010 GWh of net energy savings towards Wasaga Distribution's CDM target. A summary of the achievements towards the CDM targets is shown below:

The updated forecast prepared for this report shows that there will be a shortfall of approximately 0.5 MW versus Wasaga Distribution's 2014 peak demand reduction target. Although, the peak demand savings are below target, Wasaga Distribution expects to achieve the electricity energy savings 2014 target. Given the expected shortfall, Wasaga Distribution continues to work actively on participant engagement. In addition Wasaga Distribution 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 Wasaga Distribution's position that in it will not fully overcome the forecasted peak demand savings shortfall

# 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 Wasaga Distribution to require Wasaga Distribution, as a condition of its license, to achieve 4.010 GWh of energy savings and 1.34 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, Wasaga Distribution submitted its CDM Strategy on November 1, 2010 which provided a high level of description of how Wasaga Distribution intended to achieve its CDM targets.

The Code also requires a distributor to file annual reports with the Board. This is the second Annual Report by Wasaga Distribution and has been prepared in accordance with the Code requirement and covers the period from January 1, 2012 to December 31, 2012.

Wasaga Distribution submitted its 2011 Annual Report on September 28, 2012 which summarized the CDM activities, successes and challenges experienced by Wasaga Distribution 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.

# **1** Conservation Framework

# 1.1 Current Framework

With the standard template for the Annual Report it was stated "Ontario's current CDM framework is a key step towards creating a culture of conservation in the Province". While the current CDM framework is seen as a key step in creating kW and kWh savings, it is suggested that the framework has not been effective nor is it designed to create a "culture of conservation". While the CDM framework has delivered programs and provided marketing initiatives it has not been focused on creating a deeper understanding of conservation through education and the associated support. The evidence is the lack of general education programs, including school programs delivered across the province. Targets and creation of "culture of conservation" do not necessarily go together.

The Government's Directive to the OEB to establish CDM targets that would be met by electricity distributors recognizes the importance of CDM for both electricity customers and the electricity system. CDM helps customers manage rising energy costs, support the provincial integrated supply plan, as well as address local distribution and transmission supply constraints. The current framework was intended to enable customers to benefit from a suite of both Board-Approved and OPA Province-Wide programs and be a portfolio that would meet both broad and specific customer needs.

The state of Board-Approved programs and the current suite of Province-Wide OPA programs have limited CDM offerings to customers. This has produced limited savings and has restricted the associated opportunity for LDCs to meet their targets. The process to introduce changes to current program Initiatives or to pilot new Initiatives has been challenging, taking considerable cost and effort, which has resulted in limited benefits to customers and CDM savings.

Moving forward, the future CDM framework should address the challenges of the current framework and build on its strengths. Currently overbuilt governance and excessive legal requirements results in a slow, bureaucratic process, with a burdensome administrative process. There is a misalignment of control and risk where LDCs have the accountability to achieve their respective CDM targets as a condition of distribution license, but the authority for design and funding are controlled substantially by the OPA.

The Ministerial Directive provides continuality of the conservation programs and associated compensation for the participants; however the subsequent savings would not be attributed to any LDC target and in effect would be 'lost' due to misalignment of the current CDM framework and LDC Targets. In addition, the establishment of defined administrative funding for 2015 is required to avoid a "stop and start" process.

# **1.2 Future Framework**

LDCs are supportive of government's renewed commitment for conservation and demand management in Ontario. LDCs are committed to working with the government and other stakeholders to develop the next framework for CDM in the Province.

Long-term commitment for CDM funding and a confirmation of the role of the LDC are needed. This will allow LDCs to maintain current program infrastructure including LDC staff and third party contracts through 2015.

Providing clarity and continuity into the next framework is critical for all customers. To ensure a seamless and smooth transition that maintains and builds upon CDM momentum beyond 2014, a new CDM framework should be in place well before the expiry of the current one. Work involving key parties including LDCs, government, customer groups and OEB should start in 2013 to allow for a new framework to be in place by early 2014. The remainder of 2014 would be utilized for program development and design, economic analysis, procurement and launching of new CDM program initiatives. This of course is in addition to continued focus on the current suite of programs and target achievement.

# 2 Board-Approved CDM Programs

# 2.1 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 licence, 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 Wasaga Beach.

# 2.2 TOU Pricing

# 2.2.1 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. Wasaga Distribution will report these results upon receipt from the OPA.

At the time of preparation of this report the OPA had retained the Brattle Group as the evaluation contractor and will be working with an expert panel convened to provide advice on methodology, data collection, models, etc. The initial evaluations were conducted with 5 LDCs – Hydro One, THESL, Ottawa Hydro, Thunder Bay and Newmarket. Preliminary results have not been issued to assist LDC's forecasts going forward.

As of September 30, 2013, the OPA has not released any verified results of TOU savings to Wasaga Distribution. Therefore Wasaga Distribution 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:

RPP TOU		Rates (cents/kWh)				
Effective Date	On Peak	Mid Peak	Off Peak			
November 1, 2010	9.9	8.1	5.1			
May 1, 2011	10.7	8.9	5.9			
November 1, 2011	10.8	9.2	6.2			
May 1, 2012	11.7	10.0	6.5			
November 1, 2012	11.8	9.9	6.3			
May 1, 2013	12.4	10.4	6.7			

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

#### Initiative Activities/Progress:

Wasaga Distribution began transitioning its RPP customers to TOU billing on November 1, 2011. At December 31<sup>st</sup>, 2012, 12,503 RPP customers were on TOU billing.

# 2.3 Wasaga Distribution's Application with the OEB

Wasaga Distribution did not have an application before the Board for programming in 2012. The first two years of the CDM program has been focused on developing the infrastructure to support and deliver the Provincial Programs.

While it is recognized that OEB Approved Programs may be required to meet the targets, initial review of potential programs have indicated that there exists issues with ensuring the programs do not duplicate any of the deliverables of the Provincial Programs. The lack of OEB Approved programs places additional pressure for high levels of performance in the Provincially Contracted Programs to meet the CDM Strategy Targets.

Wasaga Distribution and other members of the CHEC group have been closely monitoring the Boards' activities in approving programs for LDC's. We are not aware of the Board having approved programming during the time period covered by this report.

# 2. OPA-Contracted Province-Wide CDM Programs

# 3.1 Introduction

Effective March 2011, Wasaga Distribution 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	Customer Class
Residential Program			
Appliance Retirement	Schedule B-1, Exhibit D	Jan 26,2011	All residential rate classes
Appliance Exchange	Schedule B-1, Exhibit E	Jan 26, 2011	All residential rate classes
HVAC Incentives	Schedule B-1, Exhibit B	Jan 26, 2011	All residential rate classes
Conservation Instant Coupon Booklet	Schedule B-1, Exhibit A	Jan 26, 2011	All residential rate classes
Bi-Annual Retailer Event	Schedule B-1, Exhibit C	Jan 26, 2011	All residential rate classes
Retailer Co-op	n/a	n/a	All residential rate classes
Residential Demand Response	Schedule B-3	Aug 22, 2011	All general service classes
New Construction Program	Schedule B-2	Jan 26, 2011	All residential rate classes
Commercial & Institutional Program			
Efficiency: Equipment Replacement	Schedule C-2	Jan 26, 2011	All general service classes
Direct Install Lighting	Schedule C-3	Jan 26, 2011	General Service < 50 kW
Existing Building Commissioning Incentive	Schedule C-6	Feb 2011	All general service classes
New Construction and Major Renovation Initiative	Schedule C-4	Feb 2011	All general service classes
Energy Audit	Schedule C-1	Jan 26, 2011	All general service classes
Commercial Demand Response (part of the Residential program schedule)	Schedule B-3	Jan 26, 2011	All general service classes
Demand Response 3 (part of the Industrial program schedule)	Schedule D-6	May 31, 2011	General Service 50 kW & above

Industrial Program			
Process & System Upgrades	Schedule D-1	May 31, 2011	General Service 50 kW & above
Monitoring & Targeting	Schedule D-2	May 31, 2011	General Service 50 kW & above
Energy Manager	Schedule D-3	May 31, 2011	General Service 50 kW & above
Key Account Manager ("KAM")	Schedule D-4	May 31,2011	General Service 50 kW & above
Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	Schedule C-2	May 31, 2011	General Service 50 kW & above
Demand Response 3	Schedule D-6	May 31, 2011	General Service 50 kW & above
Home Assistance Program			
Home Assistance Program	Schedule E-1	May 9, 2011	All residential rate classes

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

Pre-2011 Programs			
Electricity Retrofit Incentive Program	n/a	n/a	All general service classes
High Performance New Construction	n/a	n/a	All general service classes

As per the table below, several program initiatives are no longer available to customer or have not been launched in 2012.

Initiative Not in Market in 2012	Objective	Status
Residential Program		
Midstream Electronics	The objective of this initative is to encourage retailers to promote and sell high efficency televisions, and for distributors to distribute high efficiency set top boxes.	Never launched and removed from Schedule in Q2, 2013.

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Midstream Pool	The objective of this initiative is to	Never launched and removed	
Equipment	encourage pool installers to sell and install efficient pool pump equipment in residential in-ground pools.	from Schedule in Q2, 2013.	
Aboriginal Conservation Program	First Nations programs are delivered by the OPA and results are attributed to LDCs for reporting.	Launched in 2013 by OPA.	
Home Energy Audit Tool	This is a provincial online audit tool to engage customers in conservation and help drive customer participation to CDM programs.	Never launched and removed from Schedule in Q2, 2013.	
Commercial & Institutional Program			
Direct Service Space Cooling	The objective of this initiative is to offer free servicing of air conditioning systems and refrigeration units for the purpose of achieving energy savings and demand reduction.	Not launched to market 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.

# 3.2 **Program Descriptions**

Full OPA-Contracted Province-Wide CDM Program descriptions are available from the OPA and additional initiative information can be found on the saveONenergy website at <a href="https://saveonenergy.ca">https://saveonenergy.ca</a>. The targeted customer types, objectives, and individual descriptions for each Program Initiative are detailed in Appendix A.

### 3.2.1 RESIDENTIAL PROGRAMS

**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 inclusion of LED technology into the Biannual Retailers events in 2012 and the annual coupons in 2013, as well as some LDC custom coded coupons, has had a positive effect on consumer engagement.

The revamped PeaksaverPLUS program is the main Residential Initiative which is expected to drive peak savings for LDCs. Concern existed with the technology available for in Home Displays and the consumer interface (battery replacement, inability to update rate schedules remotely and integration into existing metering systems) resulting in hesitation to initiate the program pending technology improvement. While concerns remained the RFP for equipment and support was issued in late 2012 to allow implementation of the program to commence in 2013.

Peaksaver Plus not being in market impacted on peak contribution to target however it is anticipated that the peak contribution can be achieved in the following years.

The Residential Program Portfolio is predominately a carryover of Initiatives from previous programs. It had a significant dependence on retailers and contractors within the scope of many of the offerings. Three new initiatives were never launched and subsequently removed from 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. Provincial wide advertising has provided limited value due to inconsistency and non-specific messaging.

Work to revitalize and increase the effectiveness and breadth of the Initiatives through the Residential Program needs to be a high priority. There are opportunities within the Residential marketplace that need to be identified, developed and offered to customers. A revised home audit and other Initiatives which could engage an average residential customer could be considered. Continued coupon offerings to maintain the focus of the residential customer on conservation would also assist.

3.2.1.1 Appliance Retirement Initiative (Exhibit D)

#### Initiative Activities/Progress:

Wasaga Distribution actively engaged customers during Events, with Bill Inserts, with Promotional Materials, and Customer Service Staff has actively promoting programs when opportunities are presented. This program is on target to what Wasaga Distribution had originally projected.

#### Additional Comments:

- With the increase in appliance age to 20 years in 2013, many LDCs increased marketing and outreach throughout 2012 in an effort to increase uptake and achieve savings.
- Due to the duration of the program, and the revised eligibility requirements to a minimum of 20 years old, this Initiative appears to be approaching market saturation and has been under consideration for removal from the Portfolio. Removal of the program would be seen as detrimental to the residential portfolio as this program highlights the issue of appliance efficiency.
- 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 results are very responsive to province wide advertising OPA provincial marketing should continue to play a key role.
- The OPA and LDCs can continue working to establish partnerships with Independent retailers and municipalities.

# 3.2.1.2 Appliance Exchange Initiative (Exhibit E)

#### Initiative Activities/Progress:

Wasaga Distribution actively engaged customers during Events, and with Bill Inserts. This program had good uptake through the retailers in our service territory.

#### Additional Comments:

• This Initiative, eligible measures and incentive amounts are influenced by the retail partner with no direct involvement from the LDCs. 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. The Fall events have not had retailer participation, therefore savings budgeted by the LDCs have not materialized.
- Evaluation, Measurement, and Verification (EMV) results indicated that the value of savings for retired room AC has dropped resulting in the retail participant not accepting window a/c's during the Spring 2013 event.
- Notification 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.

# 3.2.1.3 HVAC Incentives Initiative (Exhibit B)

#### Initiative Activities/Progress:

Wasaga Distribution actively engaged customers during Events, with Bill Inserts, with Promotional Materials, and Customer Service Staff has actively promoting programs when opportunities are presented. This program is on target to what Wasaga Distribution had originally projected.

- Incentive levels appear to be insufficient to prompt Participants to upgrade HVAC equipment prior to end of useful life. It is hoped that the introduction of an Air Miles incentive in 2013 may help with this.
- 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.
- Channel partners require timeliness of the Rebate process to maintain a positive relationship between consumers, contractors, the OPA, and the participating LDC. Due to a contracting delay no applications were processed from approximately the end of October 2012 to February 2013.
- LDC HVAC reports have been delayed and are not as complete and accurate as are required by LDCs to make adjustments to their marketing strategies.
- In an effort to build capacity, 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 only 1500 are participating in program.

 There are cases where non-participating contractors are offering their own incentives (by discounting their installations to match value of the OPA incentive) to make the sale. As this occurs outside of the Initiative, these installations are not attributed to the LDC target, impacting on the ability to achieve target.

# 3.2.1.4 Conservation Instant Coupon Initiative (Exhibit A)

### Initiative Activities/Progress:

Wasaga Distribution actively engaged customers during Events, with Bill Inserts, and with Promotional Materials. Customer Service Staff provide coupons to customers and an in office display has been set up. This program is on target to what Wasaga Distribution had originally projected.

- The timeframe for retailer submission of redeemed coupons vary from retailer to 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 behavior. This also resulted in the delayed launch of the Initiative in 2012.
- Coupon booklets were not printed and mailed out in 2012. As such, Coupons were not widely available to consumers without the ability to download and print them. Printing of the coupons by customers can be another barrier to utilization.
- Without Provincial coupon distribution, and delay in Initiative launch, consumers may not have been aware of the online coupons. This Initiative could benefit from provincial marketing as a substitute to distribution.
- LDCs should be able to custom code all coupons to provide 100% allocation and push specific coupons based on localized needs.
- 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.

Coupon initiatives can be effective however a coordinated program maintaining profile of the coupon
program in both spring and fall is required to help to maintain consumer interest and to maintain an
awareness of energy efficient devices.

# 3.2.1.5 Bi-Annual Retailer Event Initiative (Exhibit C)

#### Initiative Activities/Progress:

Wasaga Distribution actively engaged customers during Events, with Bill Inserts, with Promotional Materials, and Customer Service Staff has actively promoting programs when opportunities are presented. This program is on target to what Wasaga Distribution had originally projected

- This Initiative is strongly influenced by the retail participants and has no direct involvement from the LDCs.
- The Product list has changed very little over the past four years.
- Limited engagement of local retailers can restrict the savings potential for this Initiative.
- 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 in Q4 2011 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.
- LDCs should be able to custom code all coupons to provide 100% allocation and push specific coupons based on localized needs.
- Communications regarding retailer participation continues to be delayed. Improved communications will aid in appropriate resource allocation and marketing of the Initiative.
- 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.

### 3.2.1.6 Retailer Co-op

#### Comments:

- This is a retailer Initiative with limited 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 centres the number of customers engaged at an event is quite low impacting on the benefits of assigning resources to deliver.

### 3.2.1.7 New Construction Program (Schedule B-2)

#### Initiative Activities/Progress:

Wasaga Distribution did not actively engage customers in this program and has received little interest in this program. Wasaga Distribution continues to engage developers when able to.

- 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.
- Following limited participation in 2011, the application process was revisited in 2012 to streamline
  administration in response to builder feedback. Participation levels are expected to grow but there
  will be a lag to when results materialize as homes pre-approved could take a year or more to be
  completed.
- Smaller contractors have not seen the cost benefit to participate in the program for the small number of homes they build.
- Administrative requirements, in particular individual home modeling, must align with perceived stakeholder payback. As per the Electricity Distributors Association ("EDA") Working Groups, changes are being processed through change management for 2012. However, the lengthy change management process has resulted in continued non-participation from builders.

# 3.2.1.8 Residential Demand Response Program (Schedule B-3)

**Initiative Activities/Progress:** An RFP for CHEC LDCs was prepared and out to market in December 2012. Delay in going to market was based on the state of available technology. Concerns existed with the ability of the available technology to meet consumer and LDC needs for a lasting benefit. Issues included: devices utilizing batteries and battery life and replacement; inability to change rate structure remotely and the ability of customers to make the changes; integration with existing smart meter systems to provide a state of the art solution rather than merely moving forward to meet the requirements of the program delivery.

The RFP was released late in 2012 to engage providers and to finalize technology to commence the delivery of the program in 2013. The initial year would allow any technology issues to be resolved, marketing of the program to begin and initial installations. The bulk of installations are anticipated to occur in 2014.

- The schedule for Peaksaver Plus was posted in August 2011, but this did not provide adequate time for product procurement for 2011, and part of 2012. The product procurement process uncovered that the In Home Display units that communicate with installed smart meter technology were still in development and not ready for market deployment. Consequently, LDCs could not be in market with the Peaksaver Plus program until 2012, or later which has resulted in delayed savings.
- Smart Meters installed by most LDCs do not have the capability to communicate directly to an In Home Display. 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.
- This is the main Initiative within the Residential portfolio that drives peak savings for LDCs.
- Given the different LDCs smart meter environments, and needs, each LDC is positioning the Initiative slightly different. As such, greater program flexibility is required to address unique LDC needs.

- Provincial wide marketing needs to be sensitive to the variations of the Initiative and provide solid, consistent messaging.
- There currently is not an avenue for participants without the ability to provide demand response capabilities to obtain an IHD and gain energy saving benefits.

# 3.2.2 COMMERCIAL AND INSTITUTIONAL PROGRAM

**Description:** Provides commercial, institutional, agricultural and industrial organizations with energyefficiency 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 and 2012 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, normally taking months to complete sometimes relatively minor changes due to the current CDM framework. 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.

During 2012 Wasaga Distribution along with other CHEC LDCs received funding for a Roving Energy Manager (REM) to assist member LDCs. This key resource provides CHEC members the ability to offer energy assessments, saving evaluations and program recommendations to C&I customers. The resource

has the knowledge base to assist industrial and commercial customers to identify savings and implement programs to achieve savings while taking the customer's needs into consideration.

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

## Initiative Activities/Progress:

Wasaga Distribution has exceeded energy saving expectations from this program.

## Additional Comments:

- It appears that the marketplace largely understands the programs now and a large proportion of LDC savings are attributed to ERII.
- The centralized process review used for 2012 project payment has been streamlined by the OPA and payments for projects were greatly improved faster and more consistent compared to 2011.
- This Initiative is limited by the state of the economy and the ability of commercial/institutional facility to complete capital upgrades.
- A number of customer facing issues in CRM (the OPA centralized application system) have been resolved; however key LDC administrative back office processing issues continue to be a challenge.
- 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.
- Lighting is still the most popular measure. Other market sectors are not as engaged yet, specifically the mechanical world. There continues to be significant barriers to program participation from HVAC (Unitary AC) and compressed air channel partners
- 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.
- Expanding the capacity of the engineered applications can offer customers an opportunity to maximize savings and incentives. Recognizing this, Toronto Hydro and London Hydro worked

together to develop and provide the OPA with compressed air engineered worksheets for inclusion in the Initiative in Q3, 2012. To date, these have not been accepted and provided to LDCs for use.

- While the Ministerial Directive provides continuality of the conservation programs for the participant to the end of 2015, unclear direction on LDC administrative funding could result in many LDCs 'ramping down' programs in 2015. The establishment of defined administrative funding for 2015 is required to avoid a "stop and start" process.
- Further the extension of the program will most likely remove the pressure on C&I customers to initiate and complete projects by December 2014 impacting on the LDC target achievement. Towards the end of the past programs, an increase in projects was seen. Such a spike in project activity is unlikely to occur in 2014 due to the extension.

## 3.2.2.2 Direct Install Initiative (DIL) (Schedule C-3) Initiative Activities/Progress:

Wasaga Distribution continues to engage local businesses. Internal Staff continue to inform new Businesses of the opportunities available for energy efficient upgrades, and local contractors are active in the community trying to increase participation.

## Comments:

- The inclusion of a standard incentive for additional measures increased project size and drove higher energy and demand savings results in some situations.
- Electrical contractor's margins have been reduced due to no labour rate increase, increase cost of
  materials, greater distances between retrofits, more door knocking required before a successful sale
  and no funding for lifts. This has led to a reduction in vendor channel participation in some regions
  and LDC needing to reach out to other contractors.
- Ambiguity with regard to eligibility resulted in large lists of customers rejected following installation due to preserved ineligibility. Due to this, some LDCs were forced to carry considerable financial burden while this was worked through.
- The eligibility requirements have now been revamped and expanded however there has been limited communication and documentation of this to the marketplace.
- Currently 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 measures has potential to provide additional energy and demand savings. Within the scope of returning to previous customer, contractor funding is required beyond merely the mark up on material.

## 3.2.2.3 Existing Building Commissioning Incentive Initiative (Schedule C-6)

## Initiative Activities/Progress:

General promotion of this initiative with similar programs was utilized. The opportunity for chilled water systems is limited in Wasaga Distribution 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 too significant of a barrier 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.

## 3.2.2.4 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.

#### **Additional Comments**

There is typically a long sales cycle for these projects, and then a long project development cycle. As
the program did not launch until mid-2011 and had limited participation, results did not appear in
2011. Minimum results are expected to appear in 2012. The majority of the results are expected in
2013-2014, with a reduced benefit to cumulative energy savings targets.

- With the Ministerial Directive facilities with a completion date near the end of 2014 currently have some security that they will be compensated for choosing efficient measures.
- Participants estimated completion dates tend to be inaccurate and are usually 6 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. Many LDCs are unsure how these project applications will be finalized beyond 2014 if administrative funding is not extended.
- The effort required to participate through the custom stream exceeds the value of the incentive for many customers.
- This Initiative has a very low Net-to-Gross ratio, which results in half the proposed target savings being 'lost'.

## 3.2.2.5 Energy Audit Initiative

## Initiative Activities/Progress:

The audit program has been promoted in site visits and customer information sessions. To the end of 2012 no applications were received however it is realized the planning window may take some time for customers to implement. In addition the assistance of the REM may increase the audit applications.

- The energy audit Initiative is considered an 'enabling' Initiative and 'feeds into' other saveONenergy Initiatives. There are no savings attributed to LDC targets from an audit.
- 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.
- Participants are limited to one energy audit which restricts enabling and direction to the other Initiatives. This Initiative should be evaluated for additional customer participation when presented with a new scope of work.

#### 3.2.3 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 valuable resources to large facilities such as Energy Managers and enabling Engineering Studies. The Engineering Studies in particular provide a unique opportunity for a customer to complete a comprehensive analysis of an energy intensive process that they would not otherwise be able to undertake. Energy Managers provide 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 the service territory of Wasaga Distribution 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 will be assisted with the services of the CHEC Roving Energy Manager, a position which was filled in the 3<sup>rd</sup> 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 any LDC target.

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, a change to the threshold for small capital projects and a new small capital project agreement are expected to improve the number of projects and savings achieved within PSUI. Likewise, a decision to proceed with natural gas load displacement generation projects will also increase uptake although results may not be counted towards LDC targets due to in-service dates beyond 2014. Looking ahead there is minimal opportunity to make additional valuable changes to the current program suite and have these changes reflected in LDC 2014 results

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

### Initiative Activities/Progress:

The hiring of a Roving Energy Manager for CHEC LDCs will assist with this initiative moving forward.

#### Comments:

- Approximately 100 engineering study applications have been submitted across the province. 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.
- Within smaller service territories there is limited customer base to participate in this initiative.
- 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 2012. The majority of the results are expected in 2013-2014, with a much reduced benefit to cumulative energy savings targets.
- 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. With smaller customers the ERII application is the most common approach.
- 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. To the end of 2012 this change was not implemented 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.

## 3.2.3.2 Monitoring & Targeting Initiative (Schedule D-2)

## Initiative Activities/Progress:

The hiring of a Roving Energy Manager for CHEC LDCs will assist with this initiative moving forward.

## 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.
- Through the change management process in 2013, changes are being made to ERII to allow smaller facilities to employ M&T systems.

## 3.2.3.3 Energy Manager Initiative (Schedule D-3)

## Initiative Activities/Progress:

CHEC LDCs applied for a Roving Energy Manager position in June of 2011 and received approval in mid-2012. Following a selection process a REM was engaged by CHEC LDCs in September of 2012. The remainder of 2012 allowed the REM to become familiar with the 12 CHEC LDC service territories and to commence contacting customers of interest.

#### Additional Comments:

- The Roving Energy Manager has proven to be a popular and useful resource for larger customers. CHEC LDCs hired an REM to be shared by the group of utilities.
- At the beginning, it took longer than expected to receive approval of the REM position and unclear communication resulted in marketing and implementation challenges. This delay impacts on the number of customers which can be contacted over the remaining program period and the kWh savings achieved under this initiative.
- Two rounds of advertising and interview were completed prior to hiring a suitable candidate for the REM position.
- New energy managers require training, time to familiarize with facilities and staff and require time to establish "credibility". The Roving Energy Manager started filling the pipeline with projects but no projects were implemented in 2012.
- Requirement that 30% of target must come from Non-incented projects is identified as an issue for most REMs, although final targets not due to 2013. Working group has proposed to remove this requirement for REM's only as they are not resident full time at a customer facility to find the nonincented savings.

• A decision on extending funding for EM's is required in 2013 for this important Initiative, which should continue beyond 2014, failing which these expert resources will be lost in favour of full-time employment elsewhere.

## 3.2.3.4 Key Account Manager (Schedule D-4)

Initiative Activities/Progress: Large accounts not contained in service territory

## 3.2.3.5 Demand Response 3 (D-6)

**Initiative Activities/Progress:** Marketing has been limited with DR3 noted with other industrial programs in literature and on website. REM is including DR3 within discussions with customers.

#### Additional Comments:

- Until early 2013 customer data was 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 2012 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 are able to enter into contracts beyond 2014. This 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.

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

**Initiative Activities/Progress:** The CHEC RFP for services to deliver the Home Assistance Program (HAP) was released in November of 2011 with award of contract in December 2011. Program set up and delivery commenced in 2012 by the Service Provider. During this time the coordination and initial set up of the program took longer than anticipated resulting in delay into market with limited results over the first year. Meetings were held with local social service providers along with general marketing of the program.

## Additional Comments:

- Awareness of the program amongst social agencies took time to develop. Centralized payment processes were not developed in 2011. The payment process was established in 2012.
- The process for enrolling in social housing was complicated and time consuming. This was addressed in late 2012 and is showing 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 has been surprising. Much of the savings appear to be on lighting which was not the anticipated focus of the program.

## 3.2.5 PRE-2011 PROGRAMS

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

# 4 2012 LDC CDM Results

# 4.1 Participation and Savings

## Table 1:

	Table 1: V	/asaga Dis	tribution	Inc. Initia	tive and Pro	gram Leve	Savings by	Year (Scena	ario 1)						
Initiative	Unit	(new prog	Increment gram activity pecified repo	al Activity	within the	Net Incre (new peak	mental Peal	k Demand Sa ings from act eporting peri	<b>vings (kW)</b> tivity within	Net Incr	remental Energy Sa vings from activity reporting period	within the		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	•					1									
Appliance Retirement	Appliances	95	40		i	5	2	i	1	39,547	15,567		Ì	7	204,889
Appliance Exchange	Appliances	8	I 1	i	i	1	0		I	1,076	174	i		0	4,382
HVAC Incentives	Equipment		90	1		29	20			53,128	35,481	1		49	318,952
Conservation Instant Coupon Booklet	Items	914	56	1	T	2	0			34,491	2,516	1	·	3	145,512
Bi-Annual Retailer Event	Items	1,566	1,909			5	3		j	52,875	48,187			6	356,061
Retailer Co-op	Items	0	0		. <u> </u>	0	0			0	0		! #	0	0
Residential Demand Response (switch/pstat)	Devices		0	 	+	0	0	i	 	0	0	<u> </u>	i	0	0
Residential Demand Response (IHD)	Devices			, 	+	H	!	L		0	·	4	!		
Residential New Construction	Homes	0	0	i	1	0	0		L	0	0	-	1	0	0
Consumer Program Total						40	25			181,117	101,924			65	1,029,797
Business Program			1				-	_			-	-	•		
	Projects	2	2			H	71			56,159	395,203		!	71	1,410,246
Direct Install Lighting	Projects		22				24		J	51,687	102,205		, ,	33	484,211
	Buildings	-	0			0	0		!	0	0	. <u>.</u>		0	0
	Buildings			 	÷			L		0	! <sup>0</sup>		<u> </u>	0	0
Energy Audit Small commercial Demallo Response	Audits	0	0	4	+	ll – – – – –			F	0	0	4	¦	0	0
Invited Instatis	Devices	0	0	<b>.</b>			0	4	·	0	0		+	0	0
	Devices					0		4		0	L	·	+	0	0
Demand Response 3	Facilities	1	1	<u> </u>	<u> </u>	68	68			2,636	984		<u> </u>	-	3,620
Business Program Total						86	163			110,481	498,393			103	1,898,077
Industrial Program				1	1		. <u> </u>	1	i			-			-
	Projects				-i	- <u>-</u> -	0	4	i	0		·	4	0	0
Monitoring & Targeting	Projects Projects	0	- <u>-</u> -	+	+	<u>0</u>				0		+	¦	0	0
Energy Manager Retrofit	Projects	0	L	4	<u>+</u>	0	i		L	0		1	; ·	0	0
Demand Response 3	Facilities	0	0			0	0	4		0	0	·	+	0	0
Industrial Program Total	raciliues	U	0	<u>.</u>	!	0	0	-		0	0			0	0
Home Assistance Program		-					Ů			-	v		ļ	-	
	Homes	0	0			0	1 <sub>0</sub>	1		0	1 <sub>0</sub>		1	0	0
Home Assistance Program Total	nomes	Ū	l °			0	Ō			0	0		İ	0	0
Pre-2011 Programs completed in 2011										-			ļ		
	Projects	1	0	1	1	0	i <sub>0</sub>	i		1,838	0	1	i	0	7,352
	Projects			<u>-</u>		0	<u> </u>	1 ·	/	1,030	197	· ·	т	0	1,157
Toronto Comprehensive	Projects	0	0	i		0	0	4		0	0	i	+	0	0
Multifamily Energy Efficiency Rebates	Projects	0		+	+				+ 1	0	0	+	¦	0	0
	Projects			<u></u>		0	0	i	!	0	r	- <u> </u>	i	0	0
Pre-2011 Programs completed in 2011 To		U	0	·		0	0			1,980	197			1	8,510
Fre-2011 Frograms completed in 2011 fo	Jiai		7	-			Ū	<u> </u>		1,500	157	-	ļ	-	8,510
Other Decement Facility of Castlered	Devices						<u> </u>	1		0			1	0	
Program Enabled Savings	Projects		0			<sup>0</sup>	<u> </u>	4		0	<u> </u>	·¦	+	0	0
Time-of-Use Savings	Homes		<u> </u>				0	1			0			0	0
Other Total											0				
Adjustments to Previous Year's Verified	Results		-	-			1				25,510			1	102,040
Energy Efficiency Total						59	121			290,942	599,530			169	2,932,764
Demand Response Total (Scenario 1)						68	68			2,636	984			0	3,620
OPA-Contracted LDC Portfolio Total (inc.	Adjustmer	nts)				126	189			293,578	626,024			170	3,038,423
Activity & savings for Demand Response resou						dn't include t						Full O	EB Target:	1,340	4,010,000
each year and quarter represent the savings f						item on the 2				% of Full OF	EB Target Achieved	to Date (Se	enario 1):	12.7%	75.8%
active facilities or devices contracted since Ja	nuary 1,	once a rull	yearoroata	12 availabl	e (2013 eVal	uation), and t	ne savings a	re quantifiéi	J, 2012						10.0,0

**Table 2** has been removed from the standard report template as the net savings are illustrated in Table 1. Gross figures have not been presented as the measures towards target is the net savings. Standard E&V methods have been applied by the OPA to determine the net figures which are outlined in this report.

## 4.2 Evaluation

The following provides a summary of the 2012 EM&V findings for all of the evaluated **save**on**energy** initiatives.

#### Consumer Program

#### **Bi-Annual Coupons**

- 15% lower net savings due to a change in the net-to-gross factors (increased free-ridership, less participant behavior spillover, and less non-participant like spillover).
- Majority of participation, energy, & demand savings are from standard CFLs.
- 15% of net savings due to ~73,000 coupons for new LED measures.

## **Annual Coupons**

- The number of coupons associated with the redemption of 2012 Annual Coupons was 90% lower than 2011 Instant Coupon Booklet. Key factors for the decrease include:
  - Shorter duration of available coupons (September 2012 December 2012)
  - In 2012, only online coupons were available
    - 2011 had both online AND coupon mailing booklets.

#### HVAC

- Small decrease (10%) in per unit savings assumptions for furnace with ECM due to change in 2012 customer mix and furnace fan usage.
- Small increase (10%) in free-ridership related to the furnace with ECM measure.
- Participation remains relatively steady once 2011 true-up values are included.

## **Appliance Retirement**

- Decrease in 2012 participation by 39% compared to 2011.
- In-site metering provided updated per unit assumptions:
  - Small decrease (3.5%) in savings for refrigerators; and
  - Sizeable increase (17.5%) in savings for freezers

## Appliance Exchange

- Increase of 30% for exchanges dehumidifiers over 2011, leading to an increase of 4% in overall participation.
- Higher per unit savings for dehumidifiers drove the overall increase in 2012 savings.

#### peaksaverPLUS

- Province-wide per-unit *ex ante* estimates for a 1-in-10 August peak day were determined to be 0.50 kW for residential CACs and 0.64 kW for small commercial CACs.
- Evaluation to date has indicated savings from in-home displays (IHDs) are not statistically significant (in and around zero).

- However, since 2012 evaluation did not include full year analysis (specifically the summer months), these results have been deemed inconclusive.
- The IHD off had a positive influence on enrollment and re-enrollment with between 20 to 35% of new enrollees said they wouldn't have enrolled without the IHD offer.

## **Residential New Construction**

• All projects are opting for the prescriptive or performance path – there have been no customer project applications to date.

## **Business Programs**

## Retrofit

- Reported savings for prescriptive lighting projects continue to be overstated:
  - Verified wattage reductions were 15% higher than assumed; and
    - Verifies operating hours were 11% higher than assumed.
- A lower realization rate in the engineered measure track can be partially explained by overstated sighting operation hours assumptions reported on the application.
- Net-to-gross ratios for the initiatives were above 75% in 2012, which is consistent with 2011.

## **Small Business Lighting**

- Reported hours of usage continue to be inaccurate only 12% of site visits had verified annual hours of use within +/-10% of the assumed value.
- The saturation of eligible customers and preferred business types are resulting in participation form building types that mat not fully operate during the summer peak period.
  - This trend contributes to lower realization rates for demand savings in 2012.
- Due to changing regulations in lighting measures, the assumed baseline technology will eventually be phased out. This regulation impacts the persistence of savings over the lifetime of lighting measures.

## Existing Building Commissioning (EBC)

- There were no applications in 2012.
- Market feedback suggests that the EBC's focus on chilled-water space-cooling systems may be too narrow, and participation could be expanded by incenting a wider range of measures.

## **New Construction**

• Custom projects account for 66% of program savings, with the remainder coming from the prescriptive track.

## Audit Funding Program

- Through Audit Funding, 280 projects were completed in 2012 based on recommendations from the auditors, resulting in 1.4 MW and 7GWh of Program Enabled Savings.
- Office buildings represented the largest portion of applicants for 2012.

#### **Industrial Programs**

#### **Process and Systems Upgrade Initiative**

- Energy managers are seen as important drivers of Program Enabled Savings projects.
  - 88% of survey respondents indicated that the assistance provided by energy managers was "somewhat" or "very" important to implementing projects.
- Energy Managers indicated that the additions support (additional training and guides) may further help influence the adoption of energy efficiency measures by the participants.
- Documentation for Program Enables Savings projects varied substantially by LDC. More guidance on documentation requirements would be beneficial to all parties.

#### DR-3

• 2012 saw improvements in the performance of DR-3 participants resulting in higher *ex ante* realization rates, particularly for the industrial participants.

#### Home Assistance Program

- Participation in the initiative ramped up in 2012, with over 5,000 homes participating in the initiative.
- Majority of energy savings (62%) comes from lighting measures, while 21% of energy savings resulting from refrigerator and freezer replacements.

## 4.3 Spending

#### Table 3: 2012 Spending

Initiative	Program Administration Budget (PAB)	Participant Based Funding (PBF)	Participant Incentives (PI)	Capability Building Funding (CBF)	TOTAL
Consumer Program		I	I		
Appliance Retirement	\$3,549				\$3,549
Appliance Exchange	\$2,579				\$2,579
HVAC Incentives	\$2,579				\$2,579
Conservation Instant Coupon Booklet	\$4,843				\$4,843
Bi-Annual Retailer Event	\$2,579				\$2,579
Retailer Co-op	\$296				\$296
Residential Demand Response	\$2,579				\$2,579
New Construction Program	\$296				\$296

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Business Program				
Efficiency: Equipment Replacement	\$6,786		\$55,700	\$62,486
Direct Installed Lighting	\$3,185	\$5,865	\$19,799	\$28,849
Existing Building Commissioning	\$853			\$853
New Construction and Major Renovation Initiative	\$853			\$853
Energy Audit	\$853			\$853
Small Commercial Demand Response (part of the Residential program schedule) Demand Response 3 (part of the				
Industrial program schedule)				
Industrial Program				
Process & System Upgrades				
a) preliminary engineering study	\$101			\$101
b) detailed engineering study	\$101			\$101
c) program incentive	\$212			\$212
Monitoring & Targeting	\$101			\$101
Energy Manager	\$1,496			\$1,496
Key Account Manager ("KAM")	\$212			\$212
Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)				
Demand Response 3	\$212			\$212
Home Assistance Program				
Home Assistance Program	\$4,285	\$900	\$548	\$5,733
Pre 2011 Programs				
Electricity Retrofit Incentive Program				
High Performance New Construction				

Toronto Comprehensive			
Multifamily Energy Efficiency Rebates			
Data Centre Incentive Program			
EnWin Green Suites			
Initiatives Not In Market		<u> </u>	<u> </u>
Midstream Electronics	\$296		\$296
Midstream Pool Equipment	\$296		\$296
Demand Service Space Cooling	\$853		\$853
Demand Response 1 (Commercial)			
Demand Response 1 (Industrial)	\$212		\$212
Home Energy Audit Tool	\$296		\$296
TOTAL Province-wide CDM PROGRAMS			

## Table 4: Cumulative Spending (2011-2014)

Initiative	Program Administration Budget (PAB)	Participant Based Funding (PBF)	Participant Incentives (PI)	Capability Building Funding (CBF)	TOTAL
Consumer Program		<u>I</u>	-		
Appliance Retirement	\$4,818				\$4,818
Appliance Exchange	\$3,848				\$3,848
HVAC Incentives	\$3,848				\$3,848
Conservation Instant Coupon Booklet	\$6,112				\$6,112
Bi-Annual Retailer Event	\$3,848				\$3,848
Retailer Co-op	\$296				\$296
Residential Demand Response	\$3,848				\$3,848
New Construction Program	\$1,564				\$1,564

Business Program				
Efficiency: Equipment Replacement	\$14,162		\$59,470	\$73,632
Direct Installed Lighting	\$4,838	\$9,960	\$32,137	\$46,935
Existing Building Commissioning	\$2,243			\$2,243
New Construction and Major Renovation Initiative	\$2,243			\$2,243
Energy Audit	\$2,243			\$2,243
Small Commercial Demand Response (part of the Residential program schedule) Demand Response 3 (part of the Industrial program schedule)				
		Industrial Program		
Process & System Upgrades				
a) preliminary engineering study	\$782			\$782
b) detailed engineering study	\$782			\$782
c) program incentive	\$893			\$893
Monitoring & Targeting	\$782			\$782
Energy Manager	\$2,177			\$2,177
Key Account Manager ("KAM")	\$893			\$893
Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	\$892			\$892
Demand Response 3				
Home Assistance Program				
Home Assistance Program	\$4,285	\$900	\$548	\$5,733
Pre 2011 Programs				
Electricity Retrofit Incentive Program				
High Performance New Construction				

Toronto Comprehensive			
Multifamily Energy Efficiency Rebates			
Data Centre Incentive Program			
EnWin Green Suites			
Initiatives Not In Market			
Midstream Electronics	\$296		\$296
Midstream Pool Equipment	\$296		\$296
Demand Service Space Cooling	\$2,243		\$2,243
Demand Response 1 (Commercial)			
Demand Response 1 (Industrial)	\$893		\$893
Home Energy Audit Tool	\$296		\$296
TOTAL Province-wide CDM PROGRAMS			

## 4.4 Additional Comments

The overall portfolio performance has been impacted by a number of issues. While some of these issues were noted within the initiative discussion it is important to note within the scope of the entire portfolio.

The inclusion of the Roving Energy Manager as a resource for CHEC LDCs is seen as a significant enabler moving forward. The REM's ability to enter into industrial and commercial establishments and provide solid guidance and support to the customer is anticipated to move forward projects which will add to target. The delay in obtaining approval for the REM position has been a detriment to target achieved as the delay impacts on customer contacts, lead time for completing studies and the implementation cycle by the customer may extend beyond the target timeline of December 2014. If the REM had been in market six to 8 months earlier a positive result would be apparent on the targets achieved.

Of note in the industrial and municipal area there has been competition for capital funding between micro fit and conservation. With limited capital dollars there is consideration that renewable generation may offer a better return on investment and hence are delaying the implementation of conservation projects.

The programs which have not been placed into market or have been removed from market have not been replaced by alternate initiatives by the OPA. The lack of these programs impacts on the ability to meet target and to offer a full scope of initiatives to the customer. While the cancellation of these programs is supported, based on the OPA evaluation, the design and inclusion of alternate programs would help mitigate the impacts.

The market ability to continue to support initiative such as SBL, and Appliance Program is questioned. The saturation and the contribution of the initiative to target will require evaluation to determine if, on a provincial basis, the OPA expectations of the program were accurate or too optimistic. Cancellations of programs impact market place awareness and the entire suite of offerings. Hence rather than removing programs, altering the program to reflect current market pressure may be more appropriate, to ensure all capacity for savings is captured.

# 5 Combined CDM Reporting Elements

## 5.1 Progress Towards CDM Targets

Implementation Period	Annual (MW)											
implementation renou	2011	2012	2013	2014								
2011 – Verified by OPA	0.1	0.1	0.1	0.0								
2012 – Verified by OPA		0.2	0.1	0.1								
2013												
2014												
Verified	Net Annual Peak I	Demand Savin	gs in 2014:	0.2								
Wasaga Distr	ibution 2014 Annu	ual CDM Capad	ity Target:	1.3								
Verified Portion of F	12.7%											

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

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

Implementation Period		Annual	(GWh)		Cumulative (GWh)
	2011	2012	2013	2014	2011-2014
2011 – Verified by OPA	0.3	0.3	0.3	0.3	1.1
2012 – Verified by OPA		0.6	0.6	0.6	1.9
2013					
2014					
Verif	ied Net Cum	ulative Ener	gy Savings 2	011-2014:	3.0
Wasaga Distributi	ion 2011-20	L4 Cumulativ	e CDM Ener	gy Target:	4.0
Verified Port	75.80.%				

## 5.2 Variance from Strategy

Wasaga Distribution has seen positive variances from higher than anticipated participation in Commercial Programs that has resulted in higher than anticipated energy savings. Demand Savings continue to be a challenge. With the Delay in launching the Peaksaver Plus program, Wasaga Distribution has not seen those savings materialize and this has created the largest variance in results.

## 5.3 Outlook to 2014 and Strategy Modifications

The CDM Strategy filed with the OEB did not contain the revised targets as communicated to the LDCs. As such the revised LDC Strategy targets are provided below with the revised targets included.

To illustrate the changes between the previous Strategy targets and the revised Strategy targets both Strategies are presented on the same chart.

Wasaga	Annual Mil	estone - Co	ntribution to	o 2014 Targ	et															
	2011 C Strategy I	Driginal Projection	Actual 20	11 Results	-	2012 Revised		Actual 2012 Results		evised Projection	Actual 2013 Results		2014 Revised Strategy Projection		Actual 2014 Results		Estimated 2011-2014 Achieved Target			n to Target as ber 31 2012
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	174,130	6	162,048	6	122,315	2	47,223	4	49,262			4	25,350			15	283,883	8	209,271
Instant Discounts (Rebates)	3	319,124	5	349,466	2	138,001	3	152,107	2	96,507			2	48,253			12	646,333	8	501,573
HVAC Discounts (Rebates)	23	142,399	29	212,510	25	116,713	20	106,442	26	82,870			27	41,792			102	443,614	49	318,952
Demand Response	70	462,564	0	0	0	0	0	0	111	264,855			332	397,283			443	662,138	0	0
Midstream Incentives	1	35,805	0	0	0	0	0	0	0	0			0	0			0	0	0	0
New Construction	5	48,553	0	0	0	0	0	0	8	36,455			9	21,076			17	57,531	0	0
Low Income	0	0	0	0	0	0	0	0	17	148,705			17	74,352			33	223,057	0	0
Provincial Consumer Total	110	1,182,576	40	724,024	33	377,029	25	305,772	167	678,653	0	0	390	608,107	0	0	622	2,316,556	65	1,029,796
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	110	1,182,576	40	724,024	33	377,029	25	305,772	167	678,653	0	0	390	608,107	0	0	622	2,316,556	65	1,029,796

	Annual Mil	ual Milestone - Contribution to 2014 Target																		
		Driginal Projection	Actual 20	11 Results		Revised Projection	Actual 2	Actual 2012 Results		2013 Revised Strategy Projection		Actual 2013 Results		2014 Revised Strategy Projection		14 Results	S Estimated 2011-2014 Achieved Target			n to Target as nber 31 2012
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	23	397,827	0	224,637	78	500,000	71	1,185,609	24	98,974			23	38,455			118	1,547,674	71	1,410,246
Existing Building Retrofits – Small																				
Buildings	4	7,227	8	177,595	9	13,551	24	306,616	9	9,034			9	4,517			50	497,762	32	484,211
Small Commercial Demand																				
Response	0	0	0	0	0	0	0	0	0	0			0	0			0	0	0	0
Demand Response 1 & 3	0	37	68	2,636	71	6,663	0	984	0	37			4	112			72	3,770	68	3,620
Provincial Commercial & Inst.																				
Total	26	405,092	76	404,867	158	520,214	95	1,493,210	33	108,045	0	0	36	43,084	0	0	240	2,049,206	171	1,898,077
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	26	405,092	76	404,867	158	520,214	95	1,493,210	33	108,045	0	0	36	43,084	0	0	240	2,049,206	171	1,898,077

	Annual Mil	estone - Co	ontribution t	o 2014 Targ	et															
		Driginal Projection	Actual 20	11 Results		Revised Projection	Actual 2	Actual 2012 Results		Revised Projection	Actual 2013 Results		2014 Revised Strategy Projection		Actual 20	14 Results		d 2011-2014 ed Target		on to Target as mber 31 2012
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																	0	0	0	0
Industrial Equipment Replacement																	0	0	0	0
Demand Response 1																	0	0	0	0
Demand Response 3																	0	0	0	0
Provincial Industrial Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	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		Estimated 2011-2014 Achieved Target		Contribution to Target as at December 31 2012	
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	136	1,587,668	116	1,128,891	191	897,243	120	1,798,982	200	786,699	0	0	426	651,191	0	0	862	4,365,762	236	2,927,873
2010 Contribution			0	7,919													0	7,919	0	7,919
Adjustments to Verified Final Results							1	102,004									1	102,004	1	102,004
Adjusted Total	136	1,587,668	116	1,136,809	191	897,243	121	1,900,986	200	786,699	0	0	426	651,191	0	0	863	4,475,685	237	3,037,796
													Target to	Achieve	1,340	4,010,000				

	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		Estimated 2011-2014 Achieved Target		Contribution to Target as at December 31 2012	
Percentage of Target	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
	10.2%	39.6%	8.7%	28.3%	14.3%	22.4%	9.0%	47.4%	14.9%	19.6%	0.0%	0.0%	31.8%	16.2%	0.0%	0.0%	64%	111.6%	17.7%	75.8%

Notes:

1. Total Projection is formed of 2011 & 2012 Actuals added with 2013 and 2014 Revised Strategy Projection. Potential TOU savings not included 2. TOU Projected Savings not included in strategy projections

## 6.0 Conclusion

Over the course of 2012, Wasaga Distribution has achieved .17 MW in peak demand savings and 3.04 GWh in energy savings, which represents 17.7% and 75.8% of Wasaga Distribution's 2014 target, respectively. These results are representative of a considerable effort expended by Wasaga Distribution, 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 Wasaga Distribution faces challenges in the remaining years of the current CDM framework. With the current slate of available OPA Programs, and the current forecast of implementation and projected savings, Wasaga Distribution expects to meet their Energy Savings GWh target but is currently anticipating a shortfall in meeting their Demand saving target by .47 MW or 35% of initial target, but is optimistic that TOU savings will materialize and assist in reduction of this shortfall.

Looking ahead there is limited opportunity to make valuable changes to the current program portfolios and have these changes reflected in LDC 2014 results. However, Wasaga Distribution will continue to work with the current portfolio to ensure the maximum contribution to target is achieved. Moving forward LDCs and the OPA can build on the strengths and key successes of the 2011-2014 programs to launch new programs which will 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.

In Market Date: March 7, 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.

Targeted End Uses: Window air conditioners and portable dehumidifiers

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

In Market Date: March 7, 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.

In Market Date: March 7, 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<sup>®</sup> qualified Standard Compact Flourescent Lights ("CFLs"), ENERGY STAR<sup>®</sup> 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.

In Market Date: March 7, 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.

In Market Date: March 7, 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: Available to the LDC as of May 1, 2012

## 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:

- Incentives for homebuilders who install electricity efficiency measures as determined by a prescriptive list or via a custom option.
- 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.

In Market Date: June 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 <sup>™</sup> 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

In Market Date: Not in market for 2012

## <u>C&I Program</u>

#### **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.

In Market Date: March 7, 2011

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 \$1,000 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 \$1,000 at no cost to qualifying small businesses. In addition, standard prescriptive incentives are available for eligible equipment beyond the initial \$1,000 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.

In Market Date: March 7, 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.

In Market Date: March 7, 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.

In Market Date: March 7, 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.

In Market Date: March 7, 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; and
- 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.

In Market Date: March 7, 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.

In Market Date: March 7, 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.

In Market Date: September 24, 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

#### 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.

In Market Date: Not available to WDI

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)

#### 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 is available:

• Schedule E

In Market Date: 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