



September 30, 2014

Sent via RESS and Courier

Ms. Kirsten Walli, Board Secretary
Ontario Energy Board
P.O. Box 2319
27th Floor
2300 Yonge Street
Toronto, Ontario M4P 1E4

Dear Ms. Walli,

RE: Brantford Power Inc. – 2013 Conservation and Demand Management (CDM) Annual Report

In accordance with Section 2.2.1 of the CDM Code for Electricity Distributors, please find enclosed Brantford Power Inc.'s 2013 CDM Annual Report. This report covers the period of January 1, 2013 to December 31, 2013.

Sincerely

Original Signed By

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Brantford Power Inc.

Conservation and Demand Management 2013 Annual Report

**Submitted to:
Ontario Energy Board**

Submitted on September 30, 2014

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Executive Summary

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

Brantford Power did not apply for any Board-Approved CDM Programs during 2013; however, as noted in the CDM guidelines, released April 26, 2012, the Ontario Energy Board (OEB) has deemed Time-of-Use (TOU) pricing a Province-wide Board-Approved CDM Program. The Ontario Power Authority (OPA) is to provide measurement and verification on TOU. At the time of this report the OPA has not released any verified results of TOU savings to Brantford Power.

In 2011, Brantford Power contracted with the 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, Brantford Power worked to improve the delivery of the saveONenergy programs and increase customer participation. Through strong customer and channel partner relationships, and cooperation with a large number of LDCs, Brantford Power was able to overcome a number of operational and structural issues to achieve strong Commercial/Institutional results.

In 2013, Brantford Power launched the peaksaverPLUS initiative and through that program was able to participate in a variety of residential outreach activities including retailer and exchange events, Canada Day celebrations and a table at the local farmer's market. Commercial participation through the Equipment Replacement Incentive Initiative (ERII) was higher than anticipated in 2013, resulting in strong energy savings results.

To date Brantford Power has achieved 3.0 MW of net incremental peak demand savings and 43.8 GWh of net incremental energy savings in 2013. This represents 26.2% and 89.5% of Brantford Power's 2014 target respectively and is representative of a considerable effort expended by Brantford Power, in cooperation with other LDCs, customers, channel partners and stakeholders. A summary of the achievements towards the CDM targets is shown below:

Brantford Power Net Peak Demand Savings (MW) 2011-2013

Implementation Period	Annual (MW)			
	2011	2012	2013	2014
2011 – Verified by OPA	1.30	1.0	1.0	1.0
2012 – Verified by OPA	-0.1	1.2	0.9	0.9
2013 – Verified by OPA	0.0	0.0	1.8	1.1
Verified Net Annual Peak Demand Savings in 2014:				3.0
Brantford Power Inc. 2014 Annual CDM Capacity Target:				11.4
Verified Portion of Peak Demand Savings Target Achieved (%):				26.2%

Brantford Power Net Energy Savings (GWh) 2011-2013

Implementation Period	Annual (GWh)				Cumulative (GWh)
	2011	2012	2013	2014	2011-2014
2011 – Verified by OPA	4.5	4.5	4.5	4.4	17.9
2012 – Verified by OPA	-0.2	5.4	5.3	5.3	15.7
2013 – Verified by OPA	0.0	0.1	5.1	5.0	10.2
Verified Net Cumulative Energy Savings 2011-2014:					43.8
Brantford Power Inc. 2011-2014 Cumulative CDM Energy Target:					48.9
Verified Portion of Cumulative Energy Target Achieved (%):					89.5%

Brantford Power's forecast for 2014 identified a shortfall of approximately 2.28 MW versus Brantford Power's 2014 peak demand reduction target. Although the peak demand savings are below target, Brantford Power expects to achieve the 2014 electricity energy savings target. Given the expected shortfall, Brantford Power continues to work actively on participant engagement. In addition, Brantford Power has partnered with other LDCs, and has been working with the Ontario Power Authority and the Electricity Distributors Association (EDA) to improve program effectiveness. Despite these efforts, it is Brantford Power's position that it will not fully overcome the forecasted peak demand savings shortfall. For this reason, Brantford Power is forecasting that, at the end of 2014, it will have achieved 6.1 MW of additional demand savings, and 30.2 GWh of additional energy savings. This will result in 80% achievement of BPI's peak demand savings target and 151% of its cumulative energy target.

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 to establish Conservation and Demand Management targets to be met by electricity distributors. Accordingly, on November 12, 2010, the OEB amended the distribution license of Brantford Power to require Brantford Power, as a condition of its license, to achieve 48.92 GWh of energy savings and 11.38 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, Brantford Power submitted its CDM Strategy on November 10, 2010 which provided a high level of description of how Brantford Power intended to achieve its CDM targets. Brantford Power provided an addendum to its CDM Strategy on June 13, 2011.

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

Brantford Power submitted its 2011 Annual Report on September 30, 2012 which summarized the CDM activities, successes and challenges experienced by Brantford Power 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.

Brantford Power submitted its 2012 Annual Report on September 30, 2013 which summarized the CDM activities undertaken by Brantford Power for the January 1, 2012 to December 31, 2012 period. The OEB's 2012 CDM Results report identified that the majority of LDCs achieved close to 20% of their net peak demand (MW) target from their 2012 results. However, LDCs generally advised the Board that meeting their peak demand (MW) target is not likely and that a shortfall is expected.

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

The report identified that although there have been improvements to programs there still remains some shortcoming to the design and delivery of certain initiatives that have resulted in a negative impact to some programs. In particular, the change management process still requires improvements to expedite enhancements to initiatives. The report also noted

that certain initiatives may be reaching the point of market saturation and that new initiatives may need to be developed in order to take the place of the existing initiatives.

1 Board-Approved CDM Program

1.1 Introduction

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

At this time, the implementation of Time-of-Use Pricing was deemed a Board-Approved Conservation and Demand Management program and is being offered in Brantford Power’s.

1.2 TOU Pricing

1.2.1 Background

In its April 26, 2012 CDM Guidelines, the OEB recognized 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 determined that distributors will not have to file a Board-Approved CDM program application regarding TOU pricing, and 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. Brantford Power will report these results upon receipt from the OPA.

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

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

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

1.2.2 TOU Program Description

TOU pricing is designed to incent the shifting of energy usage within the residential and small business customer classes. Therefore peak demand reductions are expected, and energy conservation benefits should also be realized.

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
November 1, 2013	12.9	10.9	7.2
May 1, 2014	13.5	11.2	7.5

Initiative Activities/Progress: Brantford Power began transitioning its RPP customers to TOU billing on November 1, 2011. At December 31st, 2013, Brantford Power had 35,107 customers on TOU billing.

1.3 Application with the OEB

Brantford Power did not submit a CDM program application to the OEB in 2013.

1.4 Application with the OPA's Conservation Fund

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

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

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

2 OPA-Contracted Province-Wide CDM Programs

2.1 Introduction

Effective 02/03/2011, Brantford Power 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:

Summary of OPA Province Wide CDM Program 2011-2014

Initiative	Schedule	Date schedule posted	Brantford Power in Market Date
Residential Programs			
Appliance Retirement	Schedule B-1, Exhibit D	Jan 26, 2011	January 2011
Appliance Exchange	Schedule B-1, Exhibit E	Jan 26, 2011	March 2011
HVAC Incentives	Schedule B-1, Exhibit B	Jan 26, 2011	February 2011
Conservation Instant Coupon Booklet	Schedule B-1, Exhibit A	Jan 26, 2011	February 2011
Bi-Annual Retailer Event	Schedule B-1, Exhibit C	Jan 26, 2011	March 2011
Residential Demand Response	Schedule B-3	Aug 22, 2011	June 2013
New Construction Program	Schedule B-2	Jan 26, 2011	February 2011
Home Assistance Program	Schedule E-1	May 9, 2011	February 2012
Commercial & Institutional Programs			
Efficiency: Equipment Replacement	Schedule C-2	Jan 26, 2011	March 2011
Direct Install Lighting - General Service <50 kW	Schedule C-3	Jan 26, 2011	July 2011
Existing Building Commissioning Incentive	Schedule C-6	Feb 2011	February 2011
New Construction and Major Renovation Initiative	Schedule C-4	Feb 2011	June 2011
Energy Audit	Schedule C-1	Jan 26, 2011	February 2011
Demand Response - General Service <50 kW	Schedule B-3	Jan 26, 2011	June 2013
Industrial Programs - General Service 50 kW & above			
Process & System Upgrades	Schedule D-1	May 31, 2011	November 2011
Monitoring & Targeting	Schedule D-2	May 31, 2011	November 2011
Energy Manager	Schedule D-3	May 31, 2011	August 2011
Key Account Manager ("KAM")	Schedule D-4	May 31, 2011	August 2011
Efficiency Equipment Replacement Incentive • (part of the C&I program schedule)	Schedule C-2	May 31, 2011	March 2011
Demand Response 3	Schedule D-6	May 31, 2011	January 2011

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

- Electricity Retrofit Incentive Program
- High Performance New Construction
- Toronto Comprehensive
- Multifamily Energy Efficiency Rebates
- Data Centre Incentive Program
- EnWin Green Suites

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

Summary of OPA Province Wide CDM Program Not in Market 2011-2014

Not in Market	Objective	Status
Residential Program		
Midstream Electronics	Encourages retailers to promote and sell high efficiency televisions, and for distributors to distribute high efficiency set top boxes.	Did not launch and removed from Schedule in Q2, 2013.
Midstream Pool Equipment	Encourage pool installers to sell and install efficient pool pump equipment in residential in-ground pools.	Did not launch and removed from Schedule in Q2, 2013.
Home Energy Audit Tool	This is a provincial online audit tool to engage customers in conservation and help drive customer participation to CDM programs.	Did not launch and removed from Schedule in Q2, 2013.
Commercial & Institutional Program		
Direct Service Space Cooling	Offers free servicing of air conditioning systems and refrigeration units for the purpose of achieving energy savings and demand reduction.	Did not launch in 2011/2012. As per the OPA there are 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 a 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 gave LDCs additional tools and greater flexibility to deliver programs in a way that meets the needs of customers, and increased the likelihood of participation in the initiatives.

2.2 Program Descriptions

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

2.2.1 Residential 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 Residential Program Portfolio is predominately a carryover of initiatives from previous programs. It is primarily driven by retailers and contractors. Three proposed initiatives (Midstream Electronics, Midstream Pool Equipment and Home Energy Audit Tool) were not launched and subsequently removed from the schedule in 2013.

The addition of LED measures to the Bi-Annual Retailer Event and in the Annual Coupon initiative in July 2013 had a positive impact on customer participation. There was the added benefit of three LDC custom coded coupon options in 2013.

The Residential Demand Response program continues to be the core Residential initiative. Brantford Power launched this initiative in June of 2013, utilizing the Blueline In Home Display (IHD) and load control switch. This offering has been generally well-received by consumers. Prior to the launch of this initiative it was not strategically advantageous or economical for Brantford Power to participate in customer outreach events. With the addition of this initiative to the local residential Portfolio, Brantford Power was able to actively promote all the residential initiatives at a number of customer events such as the local farmer's market, Ribfest, Canada Day and the local Cineplex.

Efforts to revitalize and increase the effectiveness and breadth of the initiatives through the Residential Program should be a high priority, as opportunities within the Residential marketplace are identified, developed and offered to customers.

2.2.1.1 Appliance Retirement Initiative (Exhibit D)

Initiative Activities/Progress: Brantford Power provided local customer support and promoted the Appliance Retirement initiative through on-bill messaging, bill inserts, customized website information and customer events. In addition, Brantford Power sub-licensed the commercial produced by Cambridge and North Dumfries Hydro for broadcast at the local Galaxy Cineplex.

Additional Comments:

- Better relationships with retailers may play a role in increasing participation in this Initiative. Retailers can provide opportunities to capture replacement appliances and have them decommissioned after a sale has been committed.
- Brantford Power has had limited, and annually depreciating, customer participation in this initiative due to market saturation. 2013 participation forecasts of a little less than 200 appliances were fairly accurate when compared to verified participation confirmed at 240.

2.2.1.2 Appliance Exchange Initiative (Exhibit E)

Initiative Activities/Progress: Brantford Power provided local marketing and customer support for this initiative, including bill messaging, bill inserts and newspaper wraps. With the launch of the residential demand response initiative, Brantford Power was able to participate in activities at the local retail store level. Brantford Power worked with the retailer to collect customer postal code information so savings could be attributed directly to Brantford Power rather than to the provincial allocation. While Brantford Power's verified results have improved for this initiative in 2013, the source of these savings (direct/allocation) has not been confirmed. A percentage of the increase can likely be attributed to holding events in both the Spring and Fall of 2013.

Additional Comments:

- The restrictive, limited and sometimes non-participation of local stores can diminish the savings potential for this Initiative. Brantford Power outreach staff were required to perform considerable duties in store for the two 2013 events.

- As there has only been one retailer participant to date, 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.

2.2.1.3 HVAC Incentives Initiative (Exhibit B)

Initiative Activities/Progress: In 2013, Brantford Power continued to build valuable relationships with local HVAC installers through membership and participation in the local chapter of the Heating, Refrigeration and Air-Conditioning Institute of Canada (HRAI). Local customer support and promotion was continued through communications, including on bill messaging, bill inserts and numerous outreach events such as soccer try-outs and in-lobby Cineplex presence. A custom commercial promoting the HVAC initiative was sub-licensed from Cambridge and North Dumfries Hydro for use at the local Galaxy Cineplex and on Brantford Power's customized conservation website.

Additional Comments:

- Incentive levels appear to be insufficient to prompt customers to upgrade HVAC equipment prior to end of useful life. An Air Miles incentive was introduced in 2013 to try and encourage early replacement. This did not seem to be very influential within Brantford Power's service territory and customer participation slipped slightly when compared to previous years.
- In an effort to build capability, mandatory training has been instituted for all participating HVAC contractors. This could present too much of a barrier for participation for some contractors as the application process already presents a restriction to contractor sales. It has been noted that there are approximately 4500-5000 HVAC contractors in the Province, however in 2013, only a total of 1,587 contractors (approx. 35%) completed the mandatory HVAC training and can participate in the program.
- Within Brantford Power's service territory there have been reported cases where non-participating contractors are offering their own incentives (by discounting their installations to match value of the OPA incentive). As this occurs outside of the Initiative, savings are not credited to LDCs. OPA should consider this in future program impact evaluation studies.
- Changes to the Schedule in 2014 to allow for incentives for new installations, rather than strictly replacement units, may provide greater Initiative results.

2.2.1.4 Conservation Instant Coupon Initiative (Exhibit A)

Initiative Activities/Progress: The coupon initiative required considerable marketing efforts through 2013 in an effort to gain traction that was lost in 2012 when coupons were not available until September 2012. Brantford Power utilized the three custom coded coupons in bill inserts, as handouts during customer outreach events, and as downloads on the customized conservation website. Despite best efforts, the total coupon count verified by the OPA for Brantford Power in 2013 was below expectations and earlier 2011 results.

Additional Comments:

- Coupon booklets were not printed and mailed out in 2013, so were not widely available to consumers without the ability to download and print online coupons. In addition, consumers may not have been aware of the online coupons.
- The product list could be distinctive from the Bi-Annual Retailer Event Initiative in order to gain more consumer interest and uptake. Program evolution, including new products and review of incentive pricing for the coupon Initiatives, should be a regular activity to ensure continued consumer interest.

- In 2013, LDCs were provided with 3 custom coded coupons. All coupons have been provided with LDC custom coding in 2014 which allows LDCs to promote coupons based on local preferences.

2.2.1.5 Bi-Annual Retailer Event Initiative (Exhibit C)

Initiative Activities/Progress: The launch of the residential demand response initiative enabled Brantford Power to participate ‘in-store’ at local retail partners in the Spring and Fall of 2013. This initiative was supported through local customer support, bill messaging, bill inserts and newspaper wraps. The newspaper wraps seemed particularly effective at promoting these events as numerous customers brought the advertisement with them to the outreach booth at the retailer event.

Additional Comments:

- The Product list has changed very little over the past five years and has resulted in a limited sense of urgency or excitement from local customers.
- A more exclusive relationship with a retailer appropriate to the program may drive higher savings.
- Independently the Retailer Co-op and Bi-Annual Retailer Event Initiative did not present a value for the investment of LDC resources to support these events and need to be backed by a strong Residential portfolio.

2.2.1.6 Retailer Co-op

Initiative Activities/Progress: As per above, Brantford Power was able to participate in retailer events in the Spring and Fall of 2013.

Additional Comments:

- 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. This could be a valuable role for LDCs, however many LDCs are limited by available resources and unable to participate.

2.2.1.7 New Construction Program (Schedule B-2)

Initiative Activities/Progress: Brantford Power is a member of the Brantford-Brant Homebuilders Association, and in cooperation with Brant County Power, worked to support this initiative with the local homebuilders. This included an information session where a representative from the OPA presented details of the initiative and provided updates to the local builders. In addition, educational material supporting the importance of choosing efficiently built homes was made available at all customer outreach events. The City of Brantford has relatively limited areas of possible residential development which restricted participation within Brantford Power’s service territory.

Additional Comments:

- In 2012 the application process was streamlined however continues to be cumbersome for builders.
- The addition of LED light fixtures, application process improvement, Natural Gas utility collaboration and moving the incentive from the builder to the home-owner may increase participation.

2.2.1.8 Residential Demand Response Program (Schedule B-3)

Initiative Activities/Progress: Brantford Power launched the Residential Demand Response initiative in July 2013, utilizing the BlueLine In Home Display (IHD) and load control switch for air conditioning units only. The launch was supported in advance with numerous marketing endeavors including advanced customer sign up at local outreach events combined with

a prize draw. Brantford Power developed a customized commercial for use in the local Cineplex and website which was also adopted by several other utilities. Initial forecasts for customer participation were surpassed within two months of launch and the total verified participation of 711 customers was 95% of the 2014 target. While this initiative is labour intensive, it remains the only initiative in the residential portfolio generally available to most customers. With the launch Brantford Power was able to justify staff participation at local customer events and conservation ambassadors subsequently were visible in the community, promoting saveONenergy initiatives, for 48 days in 2013.

Additional Comments:

- In Home Energy Display units that communicate with installed smart meter technology continue to mostly be in the development phase and are not ready for market deployment. As a result, there continues to be a lack of Energy Display selection in the marketplace.
- Smart Meters installed by most LDCs do not have the capability to communicate directly to an In Home Display and any mass replacement of newly installed meters with communicating abilities would not be fiscally responsible.
- This is the main Initiative within the Residential portfolio that was to drive savings for LDC, however the 2012 evaluation indicated savings realized from the IHD were not statistically significant. Evaluations in 2013 indicated there were no savings realized as a result of the IHD.
- Verified demand savings in 2012 from the load control devices were less than originally anticipated. This prompted an increase to the load cycling strategy in 2013 in order to increase savings closer to the original business case.

2.2.2 Commercial and Institutional Programs

Description: Provides commercial, institutional, agricultural and industrial organizations with energy-efficiency programs to help reduce their electrical costs while helping Ontario defer the need to build new generation and reduce its environmental footprint. Programs to help fund energy audits, to replace energy-wasting equipment or to pursue new construction that exceeds our existing codes and standards. Businesses can also pursue incentives for controlling and reducing their electricity demand at specific times.

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

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

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

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

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

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

Initiative Activities/Progress: The ERII program continues to be the most successful initiative for delivering demand and energy savings for the Commercial Sector. Brantford Power has worked to support this initiative through one-on-one customer meetings, participation in business events, customer training sessions and free energy assessments. In addition, Brantford Power, like many other LDCs, has received feedback from customers and most channel partners regarding the challenges with navigating the application process. As a result, Brantford Power has taken on the task of acting as an Applicant Representative for applications, in addition to processing the application review “in house”.

2013 customer participation in ERII was higher than anticipated as a result of aggressive and continued marketing efforts by Brantford Power staff. As a result, Brantford Power achieved 1.3 GWh of energy savings above 2013 forecasts included in the 2012 Annual Report.

Additional Comments:

- A large proportion of LDC savings are attributed to ERII, however it can be limited by the state of the economy and the ability of commercial/institutional facility to complete capital upgrades.
- Applicants and Applicant Representatives continue to express dissatisfaction and difficulty with the online application system as it is complex and time consuming. LDCs have supported customers through application training workshops, and LDC staff acting as customer Application Representatives. As such, LDC staff and Applicant Representatives continue to influence the majority of applications submitted.
- Processing Head Office application became much easier for the Lead LDC after Schedule changes came into effect in August 2013. The changes implemented allowed the Lead LDC to review and approve all facilities in a Head Office application on behalf of all satellite LDCs under certain circumstances.
- Streamlining of the settlements systems resulted in significant improvement in the payment process in 2013.

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

Initiative Activities/Progress: The successful execution of the previous rendition of this initiative resulted in diminished potential for the 2011-2014 initiative in Brantford Power’s service territory, with less than 250 participants in the 2011-2013 program years. In an effort to reach the few remaining eligible customers Brantford Power continues to reach out to these businesses through direct calling, site visits and direct mailers.

Additional Comments:

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

- Measure incentives and additional funding for fork lifts were introduced in September 2013 and were well received by installers.

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

Initiative Activities/Progress: While Brantford Power continued to promote this initiative with customers during one-on-one meetings and at business events, there was no customer participation in 2013. It is anticipated that there will be no customer uptake for this initiative in Brantford Powers service territory due to the limited number of space cooling chillers.

Additional Comments:

- There was minimal participation for this Initiative province wide. 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. The particulars of the Initiative have presented a significant for many channel partners to participate.

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

Initiative Activities/Progress: Through a relationship with the City of Brantford's Economic Development group Brantford Power has been able to stay informed of new developments within the City. Unfortunately, open developable land within the City is very limited. While Brantford Power staff contact developing customers directly to promote the initiative, the buildings completed in 2013 did not qualify for the initiative either as a result of only building to code, a pre-existing intent to build energy efficiently, or difficulty with the application process.

Additional Comments

- With the Ministerial Directive issued December 21, 2012, facilities with a completion date near the end of 2014 currently have some security that they will be compensated for choosing efficient measures.
- The custom application process requires considerable customer support and skilled LDC staff. Consideration should be given to custom measure options that do not involve only whole building modelling.

2.2.2.5 Energy Audit Initiative

Initiative Activities/Progress: Brantford Power has marketed this initiative through customer meetings and business events as a useful tool for identifying no cost/low cost opportunities for energy saving projects that could be achieved through the ERII program.

Additional Comments

- The introduction of the new audit component for one system (i.e. compressed air), has increased customer participation.
- Evaluators in 2012 and 2013 recognized savings towards LDCs targets as a result of customers implementing low/no cost recommendations from their energy audits.
- Participation has been limited to one energy audit per customer which has restricted enabling and direction to the other Initiatives. This has been revised in 2014 and LDCs are now able to consider additional customer participation when presented with a new scope of work.

2.2.3 Industrial Program

Description: Large facilities are discovering the benefits of energy efficiency through the Industrial Programs which are designed to help identify and promote energy saving opportunities. It includes financial incentives and technical expertise to help organizations modernize systems for enhanced productivity and product quality, as well 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.

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

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

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.

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

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

Initiative Activities/Progress: Brantford Power has worked diligently to establish strong relationships with the large industrial customers who would benefit from the PSUI Initiative. The initiative has been marketed to these customers in person through customer meetings and business events with the offer of assistance with the application process. There have been seven study applications and one project underway.

Additional Comments:

- There is typically a long sales cycle for these projects, and then a long project development cycle. As such, limited results are expected to be generated in 2013. The majority of the results are expected in 2014.
- Delays with processing funding payments have caused delayed payments to Participants beyond contract requirements. In some cases, LDCs have developed a separate side agreement between the LDC and Participant acknowledging that the Participant cannot be paid until the funds are received.
- The small capital project agreement was finalized in August 2013 which changed the upper limit for a small project from 700 MWh to 1 million dollars in incentives. This allows more projects to be eligible for the small capital project agreement and increase participant uptake while still protecting the ratepayer.

2.2.3.2 Monitoring & Targeting Initiative (Schedule D-2)

Initiative Activities/Progress: Brantford Power has provided local marketing and customer support for this initiative but has had no customer participation to date.

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. As such, changes were made to ERII in 2013 to allow smaller facilities to employ M&T systems.

2.2.3.3 Energy Manager Initiative (Schedule D-3)

Initiative Activities/Progress: Brantford Power discussed this initiative with a number of large use customers, however the initiative was received with little to no interest. As a result, there has been no customer participation.

Additional Comments:

- The Energy Managers have proven to be a popular and useful resource for larger customers.
- LDCs that are too small to qualify for their own REM are teaming up with other utilities to hire an REM to be shared by the group of utilities.

2.2.3.4 Key Account Manager (Schedule D-4)

Initiative Activities/Progress: Brantford Power joined with a number of other LDCs to ‘time-share’ the services of a Key Account Manager. The value of this resource was limited for Brantford Power due to the part-time nature of the position and narrow scope of responsibilities.

Additional Comments

- Finding this type of skill set has been difficult. In addition, the short-term contract discourages some skilled applicants resulting in longer lead times to acquire the right resource.

2.2.3.5 Demand Response 3 (Schedule D-6)

Initiative Activities/Progress: In an effort to drive for greater demand savings, Brantford Power worked to improve customer participation in the DR3 program throughout 2013. This initiative was discussed with customers at facility meetings, business events and through a focused lunch and learn session. Through this session, Brantford Power introduced the three aggregators to key customers strategically identified as potential DR3 candidates. Brantford Power provided these customers with an overview of the initiative and each aggregator presented these customers with key elements of their offering. As a result, two new customers signed demand response contracts in 2013.

Additional Comments:

- In 2013 it was accepted that prior participants who renew their DR3 contract within the 2011-2014 term will contribute to LDC targets.
- As of 2013, Aggregators were able to enter into contracts beyond 2014 which has allowed them to offer a more competitive contract price (5 year) than if limited to 1 or 2 year contracts.

2.2.4 Low Income Initiative (Home Assistance Program - HAP) (Schedule E-1)

Initiative Activities/Progress: Brantford Power's Home Assistance Program continued to benefit customers through a strong relationship with the City of Brantford's Social Housing department. This department worked to distribute information regarding the initiative to their local housing units and signed owner consent's/applications for numerous properties. In addition, Brantford Power promoted this initiative with a custom 'stream-lined' flyer distributed with bills and at outreach events. Working with the local food bank organization also supported the distribution of this flyer in conjunction with the Christmas Basket program.

Additional Comments:

- The original process for enrolling in social housing was complicated and time consuming. This was addressed in late 2012 and showed 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.

2.2.5 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.

3 2013 LDC CDM Results

3.1 Participation and Savings

Please see next page.

3.2 Evaluation

The OPA provided LDCs with key findings derived from the 2013 evaluations of the saveONenergy programs which have been included in Appendix C. These findings were developed by 3rd party evaluation contractors. Complete findings are detailed in the contractors' full evaluation reports, which will be available publicly in Q4 2014.

Table 1: Brantford Power Inc. Initiative and Program Level Net Savings by Year (Scenario 1)

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savines (kWh) 2014
Consumer Program															
Appliance Retirement	Appliances	607	405	240		35	24	16		250,242	159,035	102,324		73	1,682,116
Appliance Exchange	Appliances	81	4	123		9	1	25		12,869	968	45,441		31	141,814
HVAC Incentives	Equipment	856	888	811		310	192	168		571,421	327,050	281,618		670	3,830,069
Conservation Instant Coupon Booklet	Items	3,762	224	2,517		9	2	4		149,983	10,144	55,920		15	742,207
Bi-Annual Retailer Event	Items	6,908	7,697	6,855		12	11	9		213,214	194,308	124,644		32	1,685,067
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	192	198	711		108	91	313		278	686	274		0	1,238
Residential Demand Response (IHD)	Devices	0	0	545		0	0	0		0	0	0		0	0
Residential New Construction	Homes	0	0	0		0	0	0		0	0	0		0	0
Consumer Program Total						483320534				1,198,008692,192610,222				8208,082,513	
Business Program															
Retrofit	Projects	21	51	80		179	712	772		1,194,344	4,496,823	3,875,109		1,617	25,822,180
Direct Install Lighting	Projects	102	64	69		159	69	73		412,361	269,848	236,782		265	2,823,754
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	0	0	0		0	0	0		0	0	0		0	0
Energy Audit	Audits	0	0	2		0	0	18		0	0	96,902		18	193,803
Small Commercial Demand Response	Devices	7	5	5		4	3	3		16	18	5		0	40
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	2	2	2		68	68	69		2,636	984	917		0	4,536
Business Program Total						410851934				1,609,3564,767,6734,209,715				1,89928,844,313	
Industrial Program															
Process & System Upgrades	Projects	0	0	0		0	0	0		0	0	0		0	0
Monitoring & Targeting	Projects	0	0	0		0	0	0		0	0	0		0	0
Energy Manager	Projects	0	0	0		0	0	0		0	0	0		0	0
Retrofit	Projects	12	0	0		90	0	0		613,727	0	0		90	2,454,907
Demand Response 3	Facilities	2	1	3		170	87	347		9,993	2,104	7,894		0	19,990
Industrial Program Total						26187347				623,7202,1047,894				902,474,898	
Home Assistance Program															
Home Assistance Program	Homes	0	105	161		0	17	17		0	130,921	168,392		34	728,476
Home Assistance Program Total						01717				0130,921168,392				34728,476	
Aboriginal Program															
Home Assistance Program	Homes	0	0	0		0	0	0		0	0	0		0	0
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Aboriginal Program Total						000				000				00	
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	29	0	0		141	0	0		842,905	0	0		141	3,371,618
High Performance New Construction	Projects	1	0	0		47	1	0		241,785	794	0		48	969,524
Toronto Comprehensive	Projects	0	0	0		0	0	0		0	0	0		0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011 Total						18810				1,084,6907940				1894,341,143	
Other															
Program Enabled Savings	Projects	0	0	0		0	0	0		0	0	0		0	0
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
Other Total						000				000				00	
Adjustments to 2011 Verified Results						-660				-230,1890				-66-920,756	
Adjustments to 2012 Verified Results						14				83,141				14249,422	
Energy Efficiency Total						9921,0271,100				4,502,8515,589,8934,987,133				3,03344,445,538	
Demand Response Total (Scenario 1)						350249732				12,9233,7929,090				025,805	
Adjustments to Previous Years' Verified Results Total						0-6614				0-230,18983,141				-51-671,334	
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						1,3421,2111,846				4,515,7745,363,4965,079,363				2,98243,800,009	
Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).		The IHD line item on the 2013 annual report has been left blank pending a results update from evaluations; results will be updated once sufficient information is made available.								Full OEB Target:				11,38048,920,000	
										% of Full OEB Target Achieved to Date (Scenario 1):				26.2%89.5%	

Table 2 Summarized Program Results – 2013 Results and Contribution to Target

Program	Gross Savings		Net Savings		Contribution to Targets	
	Incremental Peak Demand Savings (MW)	Incremental Energy Savings (MWh)	Incremental Peak Demand Savings (MW)	Incremental Energy Savings (MWh)	Program-to-Date: Net Annual Peak Demand Savings (MW) in 2014	Program-to-Date: 2011-2014 Net Cumulative Energy Savings (MWh)
Consumer Program Total	0.75	1,060.53	0.534	610.222	0.820	8,082.513
Business Program Total	1.218	5,503.168	0.934	4,209.715	1.899	28,844.313
Industrial Program Total	0.347	7.894	0.347	7.894	0.090	2,474.898
Home Assistance Program Total	0.017	168.392	0.117	168.392	0.034	728.476
Pre-2011 Programs completed in 2011 Total	0	0	0	0	0.189	4,341.143
Other Adjustments	0.025	128.713	0.014	83.141	-0.051	-671.334
Total OPA Contracted Province-Wide CDM Programs	2,356	6,868.698	1.846	5,079.363	2.982	43,800

Note:

The accurate and timely collection, reconciliation and accounting of energy results towards target is very important, and represents considerable effort for both LDCs and the OPA. In an effort to add transparency to some of the process in 2014, the OPA issued to LDCs a list of their 2011-2013 ERII projects with associated demand and energy savings. This list included gross and net energy and demand values in an effort to reconcile OPA-LDC records. At this time, Brantford Power noted a discrepancy with a large ERII project that was completed in 2012. This project had previously been brought to the OPA's attention in 2013 when the draft 2012 results completely omitted this project from the results. While this project was added to the 2012 Final Verified results for Brantford Power, the OPA did not release the project lists until 2014 and, as such, in 2013 we were unable to verify that all the appropriate savings were attributed. With the release of the project list a savings discrepancy of 269,778.11 kWh of gross annual energy savings and 47.51 kW of gross demand savings was identified. This issue was communicated to the OPA by email on April 16, 2014. The OPA advised Brantford Power that this matter would be looked into and resolved. When the 2013 Draft results were issued it was evident that this issue was not addressed, and Brantford Power again followed up with the OPA verbally and via email in sufficient time for this to be corrected in the Final results report. The OPA issued Brantford Powers 2013 Final results without correcting the discrepancy and without providing any commentary other than the matter was being investigated. At the time of this report, the OPA had not resolved this matter. Based on the provided net-to-gross and realization rates applied to this project it is Brantford Power's belief that an additional 192,891 kWh net annual energy savings, 578,674 kWh of cumulative energy towards its 2014 target, and 34 kW of net demand savings should be included in Brantford Power's results.

3.3 Spending

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

Table 3: 2013 Spending

Initiative	PAB	PBF	PI	CBF	TOTAL
Consumer Program					
Appliance Retirement	\$14,994.76				\$14,994.76
Appliance Exchange	\$15,781.74				\$15,781.74
HVAC Incentives	\$27,923.01				\$27,923.01
Annual Coupons	\$22,704.38				\$22,704.38
Bi-Annual Retailer Event	\$26,423.32				\$26,423.32
Retailer Co-op	\$11,825.77				\$11,825.77
Residential Demand Response	\$155,646.16	\$146,575.00			\$302,221.16
New Construction Program	\$16,616.36				\$16,616.36
Business Program					
Equipment Replacement	\$162,173.33		\$501,856.20		\$664,029.53
Direct Installed Lighting	\$16,893.10	\$100,392.25			\$117,285.35
Existing Building Commissioning Incentive	\$2,564.70				\$2,564.70
New Construction and Major Renovation Initiative	\$10,924.38		\$96,363.01		\$107,287.39
Energy Audit	\$10,764.03		\$7,679.25		\$18,443.28
Small Commercial Demand Response	See above				See above
Demand Response 3	See below				See below
Industrial Program					
Process & System Upgrades					
a) preliminary engineering study	\$860.51		\$9,559.00		\$10,419.51
b) detailed engineering study	\$1,795.26		\$50,000.00		\$51,795.26
c) program incentive	\$2,797.12		\$1,382,265.00		\$1,385,062.12
Monitoring & Targeting	\$113.45				\$113.45
Energy Manager	\$0				0
Key Account Manager ("KAM")	\$1,364.75				\$1,364.75
Equipment Replacement	See above				See above
Demand Response 3	\$7,657.72				\$7,657.72
Home Assistance Program					
Home Assistance Program	\$26,164.34	117,687.07			
TOTAL SPENDING	\$535,988.19	\$364,654.32	\$2,047,722.46	\$0	\$2,948,364.97

Table 4: Cumulative Spending (2011-2014)

Initiative	PAB	PBI	PI	CBF	TOTAL
Consumer Program					
Appliance Retirement	\$48,733.44				\$48,733.44
Appliance Exchange	\$28,129.75				\$28,129.75
HVAC Incentives	\$63,423.86				\$63,423.86
Annual Coupons	\$41,210.48				\$41,210.48
Bi-Annual Retailer Event	\$19,774.85				\$19,774.85
Retailer Co-op	\$16,420.08				\$16,420.08
Residential Demand Response	\$211,933.13	\$146,575.00			\$358,508.13
New Construction Program	\$27,008.52				\$27,008.52
Business Program					
Equipment Replacement	\$355,783.89		\$1,215,046.26		\$1,570,830.15
Direct Installed Lighting	\$36,263.07	\$431,805.50			\$468,068.57
Existing Building Commissioning Incentive	\$9,280.20				\$9,280.20
New Construction and Major Renovation Initiative	\$23,082.45		\$96,363.01		\$119,445.46
Energy Audit	\$28,128.12		\$7,679.25		\$35,807.37
Small Commercial Demand Response	See above				See above
Demand Response	See below				See below
Industrial Program					
Process & System Upgrades					
a) preliminary engineering study	\$3,908.01		\$9,559.00		\$13,467.01
b) detailed engineering study	\$5,939.95		\$50,000.00		\$55,939.95
c) program incentive	\$10,952.30		\$4,146,795		\$4,157,747.30
Monitoring & Targeting	\$555.99				\$555.99
Energy Manager	\$885.08				\$885.08
Key Account Manager ("KAM")	\$2,305.07				\$2305.07
Equipment Replacement Incentive	See above				See above
Demand Response 3	\$15,439.82				\$15,439.82
Home Assistance Program					
Home Assistance Program	\$44,147.71	\$213,079			\$257,226.71
Pre 2011 Programs					
Electricity Retrofit Incentive Program			\$298,594.81		\$298,594.81
High Performance New Construction					n/a
Toronto Comprehensive					n/a
Multifamily Energy Efficiency Rebates					\$0
Data Centre Incentive Program					n/a
EnWin Green Suites					n/a
Initiatives Not In Market					
Midstream Electronics	\$2,756.58				\$2,756.58
Midstream Pool Equipment	\$2,756.58				\$2,756.58
Demand Service Space Cooling	\$4,448.38				\$4,448.38
Demand Response 1	\$6,122.28				\$6,122.28
Home Energy Audit Tool	\$2,756.58				\$2,756.58
TOTAL SPENDING	\$1,012,146.17	\$791,459.50	\$5,824,037.33	\$0	\$7,627,643

3.4 Additional Comments

Between 2011 and 2013 Brantford Power has undertaken the following in support of achieving CDM savings:

- Working collaboratively with a large number of LDCs to improve understanding of the delivery requirements for the suite of saveONenergy programs, participate in the joint resolution of program delivery issues, share information, provide consistency in program delivery and execute group marketing efforts.
- Participation in the Electricity Distributors Association (EDA) Reporting Working Group to gain better insight into the EM&V practices, provide support to LDCs and work as a group to ensure all reporting obligations for the 2011-2014 period are adequately met.
- In 2013 and 2014, Brantford Power chaired the Reporting Working Group and works with the EDA CDM Caucus and the OPA to enhance the province wide programs and work towards a future CDM framework.
- Pursuing numerous customer meetings and business events, such as tradeshow, to develop strong relationships with our customers and help them achieve their conservation goals.
- Maintaining active memberships with channel partners, including the Chamber of Commerce, HRAI, local Homebuilders and Electrical League, to build strong business relationships and encourage participant uptake through channel partners.

In an effort push towards greater savings, in 2013 Brantford Power enhanced its pursuit of quality customer engagement, especially within the Residential Sector. To date:

- Brantford Power was visible in the community promoting saveONenergy initiatives at local residential customer events for 48 days in 2013.
- The PeaksaverPLUS initiative launch in July 2013 and was met positively by consumers. Initial forecasts for customer participation were surpassed within two months of launch. Total verified 2013 participation of 711 customers was 95% of the 2014 target.
- Brantford Power focused on DR3 in 2013 with a number of identified customers during facility meetings, business events and at an invite only focused lunch and learn session. As a result, two new customers signed demand response contracts in 2013 adding 0.28 MW of contracted capacity.
- As ERII continues to provide the largest percentage of savings through commercial projects Brantford Power has worked to build positive customer relationships by visiting customers on-site, providing customer training sessions, participating in local business events, and providing free energy assessments. In addition, Brantford Power has taken on the task of acting as an Applicant Representative for its customers. As a result of this increased level of customer care, 2013 customer participation in ERII was higher than anticipated and Brantford Power achieved 0.25 MW of Demand savings and 1.3 GWh of Energy savings above 2013 forecasts included in the 2012 Annual Report.

While Brantford Power continues to work diligently towards the 2014 conservation targets, a number of factors has negatively impacted saving potential within the service territory. For example, one industrial customer (>5MW) announced the relocation of its Brantford plant to the United States, while another is delaying capital investment in energy efficiency upgrades. These circumstances and the reallocation of the DR3 program to the IESO have substantially reduce Brantford Power's potential to meet its targets.

4 Combined CDM Reporting Elements

4.1 Progress Towards CDM Targets

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

Implementation Period	Annual (MW)			
	2011	2012	2013	2014
2011 – Verified by OPA	1.30	1.0	1.0	1.0
2012 – Verified by OPA	-0.1	1.2	0.9	0.9
2013 – Verified by OPA	0.0	0.0	1.8	1.1
Verified Net Annual Peak Demand Savings in 2014:				3.0
Brantford Power Inc. 2014 Annual CDM Capacity Target:				11.4
Verified Portion of Peak Demand Savings Target Achieved (%):				26.2%

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	4.5	4.5	4.5	4.4	17.9
2012 – Verified by OPA	-0.2	5.4	5.3	5.3	15.7
2013 – Verified by OPA	0.0	0.1	5.1	5.0	10.2
Verified Net Cumulative Energy Savings 2011-2014:					43.8
Brantford Power Inc. 2011-2014 Cumulative CDM Energy Target:					48.9
Verified Portion of Cumulative Energy Target Achieved (%):					89.5%

4.2 Variance from Strategy

Brantford Power utilized the OPA's Resource Planning Tool, as recommended by the OPA, along with the Board's 2009 Yearbook data to forecast reductions in peak demand and electricity consumption for the 2011 – 2014 period within Brantford Power's service territory. Per the update to CDM Strategy filed on June 13, 2011, Brantford Power forecasted it would achieve 10.586 MW in Peak Demand savings and 36.218 GWh in Energy savings at the end of 2014 using only the OPA Contracted Province wide programs.

To date, Brantford Power has achieved 3.0 MW in Peak Demand savings and 43.8 GWh in verified Energy savings. The results achieved in 2013 represent a variance of (5.387) MW for demand and +22,364 GWh in energy savings from the projections included in the CDM Strategy for 2013. Consequently, Brantford Power anticipates there will likely be variances between the 2014 actual verified results and the forecasts included in its CDM Strategy for the end of 2014.

As discussed in Brantford Power's 2012 Annual Report, a significant factor contributing to the variance is the input assumptions, models and estimates used in the program designs were no longer applicable for the 2011-2014 period. In addition many elements of the programs are subject to high degree of variability in the areas of EM&V and TOU savings results, program availability, changes to program design and eligibility, as well as customer's adoption of the programs.

4.3 Outlook to 2014 and Strategy Modifications

In 2013, given the verified results from the OPA for 2011 and 2012, Brantford Power updated its internal CDM forecast for the remainder of the 2011-2014 period. This forecast was developed in a “bottom up manner” based on program performance to date, key findings on OPA’s EM&V process, current market analysis, and insights relative to upcoming changes to existing programs.

Based on customer participation and savings evaluations to date, Brantford Power is anticipating it will achieve 6.1 MW of demand savings and 30.2 GWh of additional energy savings by the end of 2014, representing the achievement of 80% of its demand target and 151% of its energy target for the 2011-2014 period.

5 Conclusion

Over the course of 2013, Brantford Power has achieved 3.0 MW in peak demand savings and 43.8 GWh in energy savings, which represent 26.2% and 89.5% of Brantford Power's 2014 targets, respectively. These results are representative of a considerable effort expended by Brantford Power, 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 the subsequent 2015-2020 CDM term.

However, despite continuing improvements to existing programs, Brantford Power faces challenges in the remaining year of the current CDM framework. With the current slate of available OPA Programs, and the current forecast of implementation and projected savings, Brantford Power expects to exceed its energy consumption target but will not meet its demand savings target. Brantford Power expects a 2.28 MW shortfall to its target in demand savings by the end of 2014.

Looking ahead there is limited opportunity to make valuable changes to the current program portfolios and to realize these changes reflected in the 2014 results. However, 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 consumers in all sectors.

Appendix A: Initiative Descriptions

Residential Programs

APPLIANCE RETIREMENT INITIATIVE (Exhibit D)

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. 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.

APPLIANCE EXCHANGE INITIATIVE (Exhibit E)

This Initiative involves appliance exchange events. Exchange events are held at local retail locations and customers are encouraged to bring in their old room air conditioners (AC) and dehumidifiers in exchange for coupons/discounts towards the purchase of new energy efficient equipment. Window ACs were discontinued from the program in 2013. OPA contracts with participating retailers for collection of eligible units. LDCs provide local marketing.

HVAC INCENTIVES INITIATIVE (Exhibit B)

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.

CONSERVATION INSTANT COUPON INITIATIVE (Exhibit A)

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. 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.

BI-ANNUAL RETAILER EVENT INITIATIVE (Exhibit C)

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. 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.

RETAILER CO-OP

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). 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.

NEW CONSTRUCTION PROGRAM (Schedule B-2)

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 and Incentives for homebuilders who meet or exceed aggressive efficiency standards using the EnerGuide performance rating system.

RESIDENTIAL DEMAND RESPONSE PROGRAM (Schedule B-3)

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. In peaksaverPLUS™ 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)

Commercial & Institutional Programs

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

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.

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

The Direct Installed Lighting Initiative targets customers in the General Service <50kW account category. This Initiative offers turnkey lighting and electric hot water heater measures with a value up to \$1,500 at no cost to qualifying small businesses. In addition, standard prescriptive incentives are available for eligible equipment beyond the initial \$1,000 limit.

EXISTING BUILDING COMMISSIONING INCENTIVE INITIATIVE (Schedule C-6)

This Initiative offers Participants incentives for a scoping study phase, investigation phase, implementation phase and hand off/completion phase.

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

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

ENERGY AUDIT INITIATIVE (Schedule C-1)

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.

Industrial Program

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

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 or c) A one year pay back

MONITORING & TARGETING INITIATIVE (Schedule D-2)

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.

ENERGY MANAGER INITIATIVE (Schedule D-3)

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.

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

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.

DEMAND RESPONSE 3 (Schedule D-6)

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.

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.

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

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.

Appendix B: Pre-2011 Programs

ELECTRICITY RETROFIT INCENTIVE PROGRAM

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.

Delivery: LDC Delivered

HIGH PERFORMANCE NEW CONSTRUCTION

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.

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

TORONTO COMPREHENSIVE INITIATIVE

This Initiative was specific to Toronto Hydro's Service Area.

MULTIFAMILY ENERGY EFFICIENCY REBATES

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

Delivery: OPA contracted with Greensaver

DATA CENTRE INCENTIVE PROGRAM

This Initiative was specific to Powerstream's Service Area.

ENWIN GREEN SUITES

This Initiative was specific to EnWin's Service Area.

Appendix C: 2013 EMV Key Evaluations Findings

CONSUMER PROGRAM

Appliance Retirement Initiative

- Per unit savings increased for both energy (+15.4%) and demand (+4.0%) between 2012 and 2013 due to a greater proportion of refrigerators/freezers with large volumes and a manufacturer date before National Appliance Energy Conservation Act (NAECA) was implemented. Dehumidifiers also show a higher per unit savings related to the change in ENERGY STAR definitions.
- Overall participation continues to decline with 20,952 appliances recycled in 2013, compared with 34,146 in 2012 and 56,110 in 2011. The program has experienced close to a 40% reduction (39.1% 2011 to 2012, 41.1% 2012 to 2013) in recycled appliances in each subsequent year of operation.
- Net to gross ratio stayed constant at around 43% between 2012 and 2013

Appliance Exchange Initiative

- Increased per unit energy and demand savings due to an adjustment to the assumed consumption of "conventional" and Energy Star dehumidifiers. The calculated weighted average annual energy savings of a exchanged dehumidifier increased 36.6%
- Of the participants surveyed who reported they had replaced the dehumidifiers they exchanged, 100% reported purchasing ENERGY STAR® models.
- 21% increase in the number of eligible dehumidifiers collected in the program. In 2013, 5,337 dehumidifier units were collected compared to 3,617 dehumidifier units and 219 window air conditioners.
- Net to Gross ratio (NTG) was 52.6% which is a slight increase of the 2012 NTG of 51.5%

Heating and Cooling Initiative

- Total participation (equipment) increased 7.5% from 2012 to 91,581.
- Per unit furnace savings decreased from 1139 kWh/yr in 2012 to 1090 kWh/yr due to a slight shift in the number of participants who use their furnace fan non-continuously both before and after the retrofit as opposed to changing from continuous to non-continuous operation
- Per unit energy and demand savings assumptions for central air conditioners did not change from 2012.

Annual Coupons

- Customers redeemed more than ten times as many annual coupons in 2013 as in 2012 because of new LED coupons and full year availability of all coupons. Customers redeemed 13% more annual coupons in 2013 than in 2011, the first full year of annual coupons due to the high volume of new LED coupons.
- There was a significant reduction in savings specialty CFL related measures. In 2013, the findings showed around 30% of participants are replacing incandescent bulbs compared to 60% of participants replacing incandescent bulbs in 2012.
- Despite the significant per unit savings reductions, the Net Annual Savings from Annual Coupons in 2013 was more than 5.5 times that in 2012. This is primarily because of higher participation due to the inclusion of LED coupons and full year availability of all coupons.
- 93% of coupons redeemed in 2013 were for general purpose LEDs and specialty CFLs and LEDs, producing 89% of net annual energy savings and 84% of net demand savings.
- Measure NTG ratio was approximately 8% higher in 2013 than in 2012 due to the inclusion of participant like spillover, i.e., purchase of additional coupon initiative measures without using coupons because of program influence.

Bi-Annual Coupon Events

- 19% increase in the number of coupons redeemed during the Spring and Fall Events in 2013 compared to 2012 because of substantial increase in LED purchases with event coupons.
- 36% lower net annual savings in 2013 compared to 2012 primarily because of significant reductions in per unit savings estimates for standard and specialty CFLs. In 2013, findings showed a decrease in replacement rate of incandescent bulbs. Only 30% of 2013 participants are estimated to have replaced incandescent bulbs compared to 60% of participants replacing incandescent bulbs in 2012. This leads to a change in the baseline assumption for the savings calculations.
- 87% of coupons redeemed were for general purpose and specialty CFLs and LEDs, producing 80% of net annual energy savings and 73% of net demand savings
- Measure NTG ratio was approximately 8% higher in 2013 than in 2012 due to the inclusion of participant like spillover, i.e., purchase of additional coupon initiative measures without using coupons because of program influence.

peaksaverPLUS

- The cycling strategy for CAC load control was changed from 50% simple cycling to 60% simple cycling.
- Under 1-in-10 year weather conditions, the 2013 estimated impacts for load control devices are higher than the 2012 estimates in all months and are between 10 and 15% higher during the core summer months of June through August.
- Load impact estimates for the average small and medium business and for electric water heaters among residential customers are also unchanged from the prior year's analysis
- This year's IHD analysis has yielded an estimate of no statistically significant energy savings.

Residential New Construction

- Energy and demand savings for the Initiative increased by 300% compared to the combined 2011 and 2012 results ; number of projects also increased from 45 in 2011 and 2012 to 86 in 2013.
- All projects are opting for the prescriptive or performance path. No custom project applications were received in 2013, similar to 2011-2012 .
- Net-to-gross ratio for the initiative was higher by 14% from 49% in 2012 to 63% in 2013.

HOME ASSISTANCE PROGRAM

Home Assistance Program

- Participation increased significantly to 26,756 participants in 2013 from 5,033 in 2012
- Realization rates were slightly lower in 2013 (0.88 for kWh and 0.26 for kW) than in 2012 (0.98 for kWh and 0.32 for kW) primarily due to updated verified per unit assumptions .
- Realization rate for demand savings remained low as FAST Tool calculated kW savings for certain insulation measures remained very high and recommended revisions to kW savings factors were not yet in use in 2013 (changes to the FAST Tool to address these issues were made in early 2014)

BUSINESS PROGRAM

Retrofit

- A total of 8,785 projects completed in 2013. Reported energy savings for individual projects ranged from 1 kWh to over 5,000,000 kWh
- Net to Gross ratio (NTG) for energy was 72.8%, consistent with prior years
- NTG for demand was 72.0%, consistent with prior years
- NTG ratios are comparable to similar programs across North America

Small Business Lighting

- In 2013 the initiative introduced: a) an increase in the incentive to \$1500 from \$1000, b) new LED measures c) Agribusiness eligibility, resulting in the stabilization of participation and an increase in savings.
- 17,782 projects completed in 2013 (3.8% decrease from 2012)
- However, 12.2% increase in Net Verified Energy Savings relative to 2012.
- The average incentive per project and savings per project both increased between 2012 to 2013
- Net to Gross ratio (NTG) for 2013 remained unchanged at 94%

Audit Funding

- 319 audits were completed in 2013
- 2013 sample saw more recommended measures implemented without incentives (33% in 2013 vs. 13% in 2012)
- The average per audit summer peak demands savings is estimated to be 13 kW.

Existing Building Commissioning

- 29 unique participants in the 2013 population
- No Commissioning projects completed the hand-off/completion phase in 2013
- Improvements to the chilled water system controls were the most commonly targeted measure.
- Large variation in estimated savings results between preliminary investigation phase and actual implementation phase

High Performance New Construction

- Number of projects increased by 25% from 69 in 2012 to 86 in 2013.
- Custom projects, representing only about 8% of the total number of projects, account for 67% of verified demand savings and 54% of verified energy savings.
- A realization rate of 72% for energy savings is low due to the low realization rate of the Agribusiness high ventilation, low speed fans which comprised of 15 % of the HPNC prescriptive project energy savings.
- Net-to-gross ratio for the initiative was higher by 5% from 49% in 2012 to 54% in 2013.

INDUSTRIAL PROGRAM

Process and Systems Upgrade Initiative

- In 2013, three PSUI projects were put into service. Projects were very well documented and technical reviews were thorough. Most projects are delivering the level of energy savings expected or more (realization rates of 87% for energy savings and 86% for summer demand savings)
- Good level of quality on M&V conducted in each project. The level of free-ridership was found to be very low, at only 7% for energy savings and 6% for demand savings, and no spillover was identified.
- Energy Managers are seen as important drivers of program enabled savings projects. Almost a 300% increase vs. 2012 in the amount of energy savings from program enabled savings projects.

DR-3

- The largest 20 contributors account for 60% of the contractual demand reduction – in other words, less than 5% of contributors account for the majority of the load reductions.
- In 2013, DR-3 was successfully dispatched locally for the first time in order to provide assistance in restoring power after a prolonged power outage due to substation flooding.

Note:

The Key Evaluation findings are derived from the 2013 evaluations of the saveONenergy programs. These findings were developed by 3rd party evaluation contractors. Complete findings are detailed in the contractors' full evaluation report