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March 30, 2009

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
P.O. Box 2319
2300 Yonge Street, Suite 2700
Toronto, Ontario
M4P 1E4

Dear Ms. Walli,

Re: March 31, 2009 Annual Reporting of CDM initiatives RP-2004-0203 \ 2008 Annual Report

Hydro One Brampton Networks Inc. (Hydro One Brampton) is pleased to file with the Ontario Energy Board, the annual reporting of Conservation & Demand Management (CDM) initiatives as at December 31st, 2008. Hydro One Brampton completed all CDM initiatives by December 31, 2007.

On February 02, 2009, the Ontario Energy Board issued a procedural order which specified requirements for: reporting third tranche Market Adjusted Revenue Requirement (MARR) CDM, the reporting of CDM funding approved in rates, and the filing of annual reports with the OEB. In preparing their fourth annual report, Hydro One Brampton has complied with the specifications of this procedural order.

Please find attached to this cover letter:

- 3 hard copies of Hydro One Brampton's Annual Report
- 2 compact disks containing Hydro One Brampton's Annual Report

Hydro One Brampton trusts the enclosed will be sufficient for the Board's review purposes.

Respectfully,

A handwritten signature in black ink, appearing to read "Scott Miller". The signature is written in a cursive style with a large initial "S".

Scott Miller
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Roger A. Albert, President & CEO, Hydro One Brampton Networks Inc.
Jamie Gribbon, Vice-President Finance and Administration, Hydro One Brampton Networks Inc.

Enc.

Hydro One Brampton Networks Inc.
Conservation and Demand Management Plan
Annual Report to December 31, 2008

RP-2004-0203
2008 Annual Report
CDM Third Tranche Funding

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INTRODUCTION

On October 5, 2004, The Ontario Energy Board (The Board) issued a *Procedural Order* which contained the reporting filing requirements (paragraphs 26 through 30) applicable to Market Adjusted Revenue Requirement (MARR) Conservation & Demand Management (CDM) funding. On December 21, 2005 the Board issued the *Guidelines* for Annual Reporting to the OEB. In this fourth Annual Report, Hydro One Brampton Networks Inc. (Hydro One Brampton) has complied with the requirements of the Procedural Order and has provided the information requested in the Guideline.

On February 18, 2005 Hydro One Brampton received final approval from The Board for its Conservation and Demand Management Plan (CDM Plan) covering the years 2005 – 2007.

In preparing the CDM Plan, Hydro One Brampton based its initiatives on the following objectives:

- Contribute to the creation of a conservation culture in Ontario
- Help consumers and businesses manage their electricity use
- Contribute to the Province's target of reducing energy demand
- Support community-based programs and foster co-operation with municipal Local Distribution Companies (LDC)

The following criteria were used to assist in program design and cost allocation:

- Customer Needs – programs meet the needs of Hydro One Brampton's customer base
- Benefit Allocation – benefits arising from the planned initiatives are distributed across Hydro One Brampton's customer base
- Benefit Assurance – potential exists to realize energy and cost of delivery savings
- Leveraging Partnerships – partnerships are and will be developed that will make use of economies associated with greater scale of delivery or existing delivery channels

EVALUATION OF THE CDM PLAN

Hydro One Brampton was successful in launching programs across various areas including: residential, and commercial and industrial sectors. Hydro One Brampton worked in conjunction with the Ontario Power Authority (OPA) to promote their provincial programs. Hydro One Brampton also participated in various communication and education initiatives to contribute to the goal of culture change within the province. Hydro One Brampton has undertaken various initiatives at its own facility in order to demonstrate the effectiveness of new and emerging energy efficient technologies.

Hydro One Brampton developed various programs that were launched in 2005 and 2006. Some of these programs such as the Power Factor Improvement and the Commercial Industrial Lighting Program, were improved and continue to be offered while others were modified and other unsuccessful programs were terminated. Most pilot projects were completed by the end of 2006 and were used as the basis for developing or improving other programs and initiatives.

In addition to developing programs; Hydro One Brampton launched various programs specifically for the residential, and commercial and industrial markets. The residential programs were designed to promote the use of energy efficient technologies, while the commercial and industrial programs were designed to encourage customers to undertake energy efficient projects. Hydro One Brampton provided both educational support, and financial incentives to offset any potential financial barriers.

Hydro One Brampton's CDM Plan presented a balanced approach to both conservation and load control initiatives. The programs were designed to offer opportunities for all customers to contribute to and benefit from a culture of conservation. Hydro One Brampton's programs delivered financial savings for customers, as well as kilowatt-hour (kWh) and kilowatt (kW) reductions that contributed to meeting the Province's goals.

Table 1 provides an overview of Hydro One Brampton's CDM approved budget, life to date spending as at December 31, 2008, as well as kWh and KW savings earned as associated with various programs.

TABLE 1

PROGRAM	3Year BUDGET (\$K)	LIFE TO DATE DEC 2008 (\$K)	LIFE TO DATE SAVINGS KW	LIFE TO DATE SAVINGS kWh	LIFECYCLE SAVINGS kWh	LIFECYCLE \$/kWh
Residential						
Smart Meters	140					
Real Time Monitoring Pilot	40	40.5				
Mass Market Coupon Initiative	500	531.8	166.2	31,568,958	138,572,233	0.00383
LED	100	142.7		356,530	5,347,938	0.02668
Residential Load Control Pilot	80	79.7				
Total	860	794.7	166.2	31,925,488	143,920,171	0.005552
Commercial/Industrial						
Conservation Assets Program (Interval Meters)	1,285	1,112.5				
C/I Power Factor Correction Pilot	150	145.0	7,445 kVAR		7,445kVAR	
C/I Load Control Technology Demonstration Project	500	765.1	601.6	6,265,958	16,627,602	0.04601
135	90.0					
Total	2,070	2,112.6	601.6	6,265,958	16,627,602	0.12705
Common						
Distribution Loss Reduction	100	64.5	199.0	5,231,034	17,436,780	0.00369
Research Planning and Development	36	11.2				
Communication and Education	165	247.7				
Internal Building Efficiency	5	5.0				
Total	306	328.4	199.0	5,231,034	17,436,780	0.01882
Grand Total	3,236	3,235.7	966.8	43,422,480	177,984,553	0.01817

DISCUSSION OF THE PROGRAMS

Residential Smart Metering Pilot Program

Description

On November 3, 2005 the provincial government set a target for installing smart meters on all residential services in Ontario by 2010. Hydro One Brampton subsequently applied for and received status as a named utility specifically allowed to carry on smart metering activities.

Design

As part of the smart metering program, Hydro One Brampton is using Triliant metering technology. Some key features of this technology are:

- 1) Hourly recording of energy usage
- 2) Wireless control of in-house devices
- 3) Can integrate with an outage management system, and will allow customer to take direct control of their energy consumption

Intent

Smart meters will provide the ability to record consumption in time intervals that can be matched to price signals that differ throughout the day, to reflect the true cost of power. Understanding and reacting to proper price signals is an essential component to creating a conservation culture and managing customer demand. The largest benefit of smart meters is providing customers with the ability to understand their consumption patterns so they can make effective decisions on usage.

Delivery

Hydro One Brampton initiated its smart metering program without the use of CDM funding.

Evaluation

There are no results to report.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Lifecycle kWh
Smart Meters	140.0	NIL	N/A	N/A

Residential Real Time Monitoring Pilot

Description

In 2004; 45 customers were provided with monitors that measured the electrical consumption of their homes in real-time. Customers were able to view their current usage and cumulative consumption in kWh as well as in dollars. In conjunction with Hydro One Networks Inc. the pilot field tests were completed in the fall of 2005. This was the largest pilot project of its kind in Canada.

Design

In order to assess the impact of these monitors on electricity consumption, the kWh usage was examined on a monthly basis and compared to historical usage. The collected data was normalized for changes in weather, number of household occupants and other relevant factors. A control group was also used to determine whether or not savings could be attributed to the monitor. Customer questionnaires were administered throughout the pilot to assess customer behaviour, and collect relevant demographic data.

Intent

The residential real time monitoring pilot's main objectives was to determine whether provision of a real-time feedback device is sufficient to empower residential customers with the information required to change behaviour and reduce electricity consumption. The pilot was also intended to indicate whether it could be determined from usage data, or a change in behaviour, be quantified in energy savings.

Delivery

The delivery of the pilot consisted of five stages: pilot design, customer recruitment, technology deployment, customer usage, data acquisition, and data analysis. External consultants and service providers were employed throughout these stages to supplement the expertise and resources available to Hydro One Brampton.

Evaluation

The model for the evaluation of this pilot, as well as the findings and conclusions, were prepared by Professor Dean Mountain, McMaster Institute for Energy Studies. The detailed findings for the province are as follows:

- The results (for the entire study) indicate a significant positive impact on customer usage. Overall, the aggregate reduction in electricity consumption across the study sample was 6.5% at a high level of statistical accuracy. An important observation from the study is that the behavioural response remained persistent and did not decrease over time during the study period.
- Within the overall sample, the households with non-electric heating showed energy savings of 8.2% with a range within this sample of a 5.1% reduction (for a non-electric water heating house) to a reduction of 16.7% (for an electric water heating house). Hydro One Brampton observed that households with electric heating were not responding in a significant way to real-time feedback. In order to encourage conservation in this sector, the feedback would need to be separated out from the electric heating load and the rest of the load.
- No other price or conservation incentives were given to participants in the study; therefore, the conservation results observed in the pilot are interpreted as the minimum to be garnered in the absence of other possible conservation incentives. If a real time feedback monitor is used in conjunction with the provision of additional literature and tips on conservation or price measures, an overall average reduction of between 7% and 10% is likely to be realized.

The favourable results of this project will be used for the basis of developing future programs.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Life to Date Savings KW	Lifecycle kWh
Real Time Monitoring Pilot	40.0	40.5	N/A	N/A	N/A

Residential Mass Market Coupon Initiative- Every Kilowatt Counts (EKC)

Description

Hydro One Brampton participated in two mass marketing coupon initiatives introduced by the OPA in the spring and fall of 2006 and 2007 under the EKC program. In 2008 focus shifted to in-store coupon programs.

In addition to participating in direct mailing programs, Hydro One Brampton attended various civic functions to promote the programs. Part of one of these programs included distributing compact fluorescent lights to all residences in Brampton.

Design

Using the Hydro One Brampton’s customer database, customers were mailed a coupon booklet. Coupons were instantly redeemable at the point of purchase at various retail stores for environmentally friendly products such as compact fluorescent lights, timers etc. The OPA tracked the results pertaining to these programs.

Intent

The objective of the initiative was to heighten awareness of conservation among customers, as well as achieve energy savings in kWh and kW. The coupons encouraged customers to take simple, low-cost actions to save both energy and money.

Delivery

The mass market coupon initiative was a joint project along with the OPA, other LDCs, and various retail partners to offer this coupon program to every household in Ontario. Each residential customer received a compact fluorescent lamp delivered to their house.

Evaluation

In 2006 a total of **52,601** coupons were redeemed at various retailers in Brampton during the two campaigns. The redeemed coupons resulted in the sale of **104,109** energy saving products. Results for the 2007 and 2008 EKC programs are reported by the OPA.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Life to Date Savings KW	Lifecycle kWh
Mass Market Coupon Initiative and CFL distribution	500.0	531.8	31,568,958	166.2	138,572,233

Residential Seasonal Light Emitting Diodes (LED)

Description

Brampton customers were encouraged to exchange their old incandescent holiday lights for efficient LED holiday lights. This program was designed as a one for one exchange and ran through 2005 and 2006.

Design

The program was designed to receive significant community exposure, and was executed with internal resources to curtail costs. Partnerships with the City of Brampton were established to help facilitate and promote this program.

Intent

The objective of the LED program was to create awareness of the benefits of LED lights to drive change in consumer behaviour and to reduce the seasonal load. LEDs use up to 95% less energy, last longer and emit less heat than standard bulbs. These benefits equal both energy savings and cost savings for the customer

Delivery

Hydro One Brampton partnered with the City of Brampton in their annual tree lighting ceremony as well as a local shopping mall. The program was promoted through various channels such as bill inserts, local print media and the City of Brampton flyers.

Evaluation

Approximately 6300 incandescent strings of lights were exchanged for either LED strings or gift cards towards the purchase of LED lights. Costs for the 2006 campaign continued to be incurred in 2007. Due to a product manufacturing defect, there is a settlement issue to be finalized in this matter with the manufacturer of the LEDs. The program was delivered using internal Hydro One Brampton resources to minimize costs. The uptake of the program during the two campaigns increased the awareness of the general public to the use of Seasonal LEDs. Despite the manufacturing defect this program was effective in accelerating the adoption of Seasonal LEDs.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Lifecycle kWh
SLEDs Distributed	100.0	142.7	356,530	5,347,938

Residential Load Control Pilot

Description

In 2004, 30 Hydro One Brampton customers had load control units installed in their homes, allowing Hydro One Brampton to control central air conditioners and pool pumps during peak demand times. Differing hours of interruption and incentive levels were offered to customers with particular profiles of controllable variables to ensure that the results would be representative of Hydro One Brampton’s customer base.

Design

An interval meter was installed in each home and set to collect five minute interval data for the duration of the pilot. This level of consumption data was necessary in the pilot phase to accurately estimate the load interruption that could be obtained from each device during each control event. This approach provided information required to adequately design a large scale residential load control program.

Over the course of the pilot, equipment was controlled for varying time intervals and at various times of the day, using a programmed schedule. The schedule was designed so that an analysis of the results would yield a “load interruption profile”, effectively a map of what load interruption could be achieved for each equipment type at any time of the day and under varying circumstances. Customer questionnaires were administered throughout the pilot to assess customer acceptance as well as collect relevant demographic data.

Intent

The objectives of this pilot was to determine the potential load impact of controlling residential equipment during system peak periods through the installation of load control units and to assess customer response to those interruptions. The amounts of monthly incentives were also assessed.

Delivery

The delivery of the pilot consisted of five stages: pilot design, customer recruitment, technology deployment, data acquisition and data analysis. External consultants and service providers were employed throughout the pilot to supplement available resources and expertise.

Evaluation

Dean Mountain, a professor at McMaster Institute for Energy Studies was retained to design the pilot and analyse the results. Results are as follows:

Average Load	# of Units	Peak Savings
0.6 kW	27	16.2 kW

The results for this pilot program are favourable. Due to the success of this program Hydro One Brampton believes there could be benefits in further development of load control programs, such as the OPA Peaksaver, in which Hydro One Brampton participated in 2007 and 2008.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kW
Res. Load Control Pilot	80.0	79.7	N/A

Commercial/Industrial Power Factor Correction Program

Description

The program offers incentives to Hydro One Brampton’s commercial and industrial customers to install power factor correction equipment in their facilities. This reduces the KVA penalty which is beneficial to the customer, and benefits Hydro One Brampton as it increases the capacity of the distribution system.

Design

Hydro One Brampton offered an incentive that will reduce the cost barrier that impedes installation of power factor correction equipment. Customers with power factors below 90%, with demands greater than 200 kW were educated about power factor and encouraged to install power factor correction capacitors. Individual customer power factor analyses were performed to determine a customer’s specific incentive.

Intent

The intent of this project was to encourage customers who have poor power factors to install power factor correction equipment, in order to reduce the kVA demand on the grid. Working with commercial and industrial customers to correct low power factors has benefited both the customer and the electricity system as a whole. The benefit will be the reduction of system losses and increased capacity of the distribution system.

Delivery

The program was delivered through customer targeted direct mailings and workshops. The program administered by Hydro One Brampton staff, was launched in April 2006 for all eligible customers and over the course of the program 15 customers took advantage of this initiative.

Evaluation

Since the program's inception a total of 15 customers applied for the power factor incentive. As a result of the long sales cycle involved with power factor correction, the 15 customer installations were split across 2006 and 2007. Six customers were completed in 2006 with the remaining nine being addressed in 2007. The installation of the power factor correction equipment was greatly successful resulting in 7,445 kVAR of capacitance being added to the grid.

Program	3 Year Budget (\$K)	Spending Life to Date (\$K)	Life to Date kVAR Added
Power Factor Correction	150.0	145.0	7,445

Commercial/Industrial Conservation Assets Program

Description

Interval metering provides the ability to record customer consumption for specific time intervals. This consumption can be matched to price signals aligned to reflect the true

cost of power. Hydro One Brampton have continued this project expanding it to customers that have monthly demands greater than 150 kW. In conjunction with the installation of an interval meter, the customers are provided with an e-Meter data presentment program where they can access their usage data via a secure web service. This provides the customers with the ability to manage their usage accordingly.

Design

The Conservation Assets Program was executed in two phases. Firstly, all customers who have demands above 150 kW will be retrofitted with an interval meter. The second phase of the project was the introduction of a web based load profiling service for all customers with interval metering.

Intent

The integration of interval metering and data warehousing provides the customer with timely access to this data and also improves customer understanding of consumption patterns as they occur. Customers once provided with the knowledge of how electricity is consumed then have the ability to manage it accordingly.

Delivery

This program was launched during the first quarter of 2006 and was completed in 2007. The delivery of this program was carried out using a contractor and was designed as a turnkey project. The contractor, in conjunction with Hydro One Brampton staff, visited the client to explain the program, coordinate the installation of both the phone line and interval meter, and provide detailed training for the web service.

Evaluation

There are no results to report at this time. During 2006 and 2007 there were 299 interval meters installed along with phone lines. All customers were set up and trained how to use the web service to identify energy conservation opportunities.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Lifecycle kWh
Conservation Assets Program	1,285.0	1,112.5	N/A	N/A

Commercial/Industrial Load Control Pilot Project

Description

The program consisted of the commercial and industrial energy efficient lighting program. The installation of energy efficient lighting has and will provide both permanent load reduction and energy savings. The lighting incentive program was introduced in June 2006. Customers could receive an incentive of \$150.00 per kW of load reduced.

In conjunction with the energy efficient lighting program, an energy efficient lighting demonstration program was undertaken by Hydro One Brampton to illustrate the various types of energy efficient lighting solutions available to commercial and industrial customers.

To promote the use of renewable energy sources a photovoltaic demonstration project was undertaken. This project was designed to promote the technology and to provide prospective users a facility where they can investigate firsthand how the technology may be used at their own facility. A small wind project was also undertaken at Hydro One Brampton’s facility. This project was the first of its type to be installed in North America and the first of its type to be grid connected. This project was designed to promote new technologies. In addition continuous metering and monitoring provide accurate data for perspective clients to use when evaluating these types of technologies. Hydro One Brampton also undertook the retrofit of its HVAC system to improve operation and reduce energy consumption. This demonstrated where potential savings could be realized. It has been Hydro One Brampton’s goal to turn its office building into a demonstration project for new and emerging energy efficient technologies. Through metering and monitoring, Hydro One Brampton can provide unbiased, accurate information to its customers regarding various technologies.

Design

The program was designed and launched in 2006 and provide a financial incentive for commercial and industrial customers to overcome one of the barriers to installing energy efficient lighting systems in their facilities.

Intent

The intent of the lighting incentive program is to provide complete load reduction for both summer and winter.

The intent of the other programs were to provide customers with a place they can see and learn about how the new technologies work and how they may be applied in their own facilities.

Delivery

Hydro One Brampton introduced the lighting incentive program to all commercial and industrial customers through various workshops and direct marketing with the customer class. The technology demonstration projects were promoted by hosting various workshops and events at Hydro One Brampton's facility to showcase the various technologies.

Evaluation

The long sales cycle for lighting retrofits was shortened by providing the aforementioned financial incentive. The projects that were completed in 2006 were generally early adopters who committed to the project prior to introduction of the program.

The level of activity and customers who applied for incentive in 2007 increased dramatically. This was largely due to the introduction of the OPA ERIP program that ensured that anyone who applied for incentives would be eligible even if Hydro One Brampton's program funding was exhausted. The technology demonstration projects have provided a location where customers can see firsthand how the new technologies work and how they can be applied.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Life to Date Savings KW	Lifecycle kWh
C/I Load Control Pilot	500.0	765.1	6,265,958	601.6	16,627,602

Commercial/Industrial Technology Demonstration Project

Description

This program provided an incentive to Hydro One Brampton commercial and industrial customers to install emerging energy technologies. Such initiatives would serve as a new technology showcase, which could then be promoted to other Hydro One Brampton customers. Hydro One Brampton originally partnered with Peel Region to demonstrate a solar/wind hybrid generation system along with a near net zero townhouse project. Both Hydro One Brampton, in partnership with Hydro One Networks, were able to offer two excellent demonstration projects. The first project was to offer an on-line energy audit service for residential and commercial customers. Participating clients are able to log on to a secure web site, input the details of their home and be provided with customized results and energy conservation recommendations. Hydro One Brampton partnered with Hydro One Networks as part of the Social Housing initiative. A multi-res high rise building was audited and retrofitted with energy efficient appliances. (In addition, each tenant was educated about wise use of electrical power). This undertaking will illustrate the impact of retrofitting and existing building with energy efficient appliances.

In 2008 after various modifications and monitoring of the wind turbine generator it was determined that it was not capable of generating power consistently and as a result, it was decommissioned.

Design

As with other components of its CDM program, Hydro One Brampton’s approach to energy efficiency has been to seek out beneficial partners wherever possible to deliver the appropriate technology to the customer.

Intent

The objective of the Technology Demonstration Project was to bring new and innovative technologies to customers, and where necessary, provide an incentive to encourage the installation of the new technologies. The energy savings have and will result in cost savings along with promoting the technologies.

The selected projects demonstrate the impact of new technologies and approaches to improving energy management.

Delivery

The online energy audit was launched in the 3rd quarter of 2007 and was available through 2008. It has been promoted at various civic events, and through several advertising mediums. The housing project was implemented using external contractors.

Evaluation

These initiatives were launched in 2007. The online energy audit is available for 2 years and the on-line audit numbers continue to increase. The housing retrofit was completed in the fourth quarter of 2007.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Life to Date Savings KW	Lifecycle kWh
Technology Demonstration Project	135.0	90.0	N/A	N/A	N/A

Common Distribution System Loss Reduction

Description

The Distribution System Loss Reduction Program involves the optimization of Hydro One Brampton's distribution system. The specific focus was on power system load balancing along with system optimization, voltage conversion, and power factor correction.

Design

Using newly acquired software, the distribution grid was modelled in its current configuration and studies were then carried out to determine the most optimal system configuration.

Intent

The intent of the program was to optimize the distribution system in an effort to reduce line losses. Lowering distribution system delivery losses reduced overall system demand and it will also provide additional network capacity for growth. System delivery losses are currently passed on to all customers therefore; improvements in this area will benefit all customers.

Delivery

The modelling of the system commenced in 2005 and was completed in 2006. After reviewing the optimization models the configuration with the greatest potential was determined and the steps to change the distribution system to this configuration were undertaken.

Evaluation

The optimal configuration results in an energy savings of 1,743,678 kWh with a demand reduction of 199kW which indicates that this initiative has been greatly successful.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Lifecycle kWh
Distribution System Loss Reduction	100.0	64.5	5,231,034	17,436,780

Common Research Planning and Development

Description

Hydro One Brampton partnered with Hydro One Networks Inc. for various customer research projects. One of these projects consisted of a detailed residential appliance survey. This research has provided valuable data for the design of other CDM programs and initiatives.

Design

The program was designed to establish baseline data using participant surveys which would then be used for developing specific CDM programs.

Intent

The intent was to develop a typical residential customer appliance load make up for Hydro One Brampton customers.

Delivery

External consultants and service providers were employed to supplement Hydro One Brampton resources. This program was supported by bill messaging and bill inserts.

Evaluation

This program began in 2005 and ended with the final report being issued in 2006. The results can now be used for developing residential customer specific programs.

Program	3Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Lifecycle kWh
Research Planning and Development	36.0	11.2	N/A	N/A

Common Customer Communication and Education Program

Hydro One Brampton undertook various initiatives intended to educate customers pertaining to the importance of conservation, as well as offer ideas on how to improve the electrical efficiency of their homes. Hydro One Brampton’s education initiatives were divided into four categories listed below. Hydro One Brampton also appeared at several forums, trade shows and community events to discuss conservation and demand management programs.

Hydro One Brampton developed various initiatives to help cultivate a conservation climate. All programs and initiatives were part of the “With A Little Energy You Can Save A Lot” theme.

Energy Management Focused Web Site

During 2006, Hydro One Brampton was in the process of redesigning the utility’s web site to provide a comprehensive energy awareness component for customers to use. The web site provides information on energy usage along with tips for reducing energy usage. This initiative was launched in the first quarter of 2006 and is continuously being improved.

Event Activity Team (Civic Functions and Tradeshows)

Hydro One Brampton attended numerous workshops and community events with a display that is solely focused on energy efficiency and tips on how to reduce usage. Hydro One Brampton also appeared at commercial and industrial customer facilities to assist them in their energy awareness campaigns that they run for their employees. The event team has attended over 65 civic events over the course of 2006, 2007 and 2008.

Literature Program

Hydro One Brampton developed an energy conservation awareness series of billing inserts. These inserts covered various topics relating to energy conservation and were delivered in 2007.

School Programs

Hydro One Brampton made presentations to various schools to inform students on how to conserve and use less electricity.

Evaluation

These programs were designed to be educational and contribute towards a culture of conservation.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Lifecycle kWh
Communication and Education	165.0	247.7	N/A	N/A

Common Internal Building Efficiency

Description

This program was designed for Hydro One Brampton’s own facility and is aligned with the government’s goal of reducing energy consumption by 5% in all government buildings. This program identified opportunities to reduce energy consumption in the Hydro One Brampton facility. The most significant savings were realized through a lighting retrofit to more energy efficient lighting, which was undertaken as part of the load reduction program. The internal efficiency program was limited to the identification of areas of conservation to reach the provincial goal and the implementation of the conservation actions identified will be part of specific programs.

Design

A lighting audit was completed of Hydro One Brampton's facility and the resulting efficiency measures became the basis for the lighting retrofit that was undertaken. An increased maintenance program of the internal heat pump system was undertaken to increase the efficiency of the units. The building energy usage was profiled to identify other conservation and energy reduction opportunities.

Intent

The intent of the program was to reduce overall peak demand and energy consumption in the Hydro One Brampton facility.

Delivery

The program was designed in house and identified various areas of opportunity. The actual work was undertaken by competent contractors.

Evaluation

As a result of evaluating energy reduction opportunities at Hydro One Brampton, four specific permanent load control demonstration projects were undertaken. These being Energy Efficient Lighting, HVAC retrofit, Photovoltaic Demonstration and a Micro Wind Turbine demonstration project.

Program	3 Year Budget (\$000)	Spending Life to Date (\$000)	Life to Date Savings kWh	Lifecycle kWh
Internal Building Efficiency	5.0	5.0	N/A	N/A

LESSONS LEARNED

Hydro One Brampton’s efforts in Conservation and Demand Management over the last four years have identified a number of key findings, which will be utilized or emphasized as they move forward.

Some of these findings were on a macro level; based on broader policy, structures and inter-relationships, while others are more program specific. Some of these findings are listed below

- As electricity prices continue to increase conservation and demand management is becoming a higher priority for customers in all sectors.
- Customers want to be able to control their electricity bill, however, they do not want to sacrifice comfort.
- Government and Ontario Power Authority should address the areas that utilities can not – codes, standards, and broader policies.
- There are barriers that need to be overcome when introducing new programs such as financing, recognizing the customers budgeting process, and their natural purchasing selection process.
- For new and emerging technologies, or for new or high risk applications in the marketplace, pilots or staged rollouts are valuable in:
 - Establishing the effectiveness of the device in either reducing energy consumption or shifting peak demand
 - Refining logistics, incentive levels, and product selection
 - Assessing delivery channels, marketing and delivery costs
 - Determining customer acceptance and overcoming barriers to customer participation

- CDM programs can provide a powerful incentive for encouraging use of innovative (pre-commercial) technologies and enabling “start-up” companies to compete in the electricity sector.
- Using expertise available in Ontario universities can help develop specific initiatives and assessment tools that provide a basis for sound decisions.
- Partnering with organizations that have experience with targeted technologies and/or targeted customers brings existing skills and knowledge to bear.
- Clearer direction and consistent communication on smart metering will lead to more efficient and effective implementation.

CONCLUSIONS

All programs were completed by December 31 2007.

- The provincial EKC program produced sales of over 104,109 energy efficient products and savings of over 113 million lifecycle kWh in 2006, this program continued through 2007 and 2008.
- The Real-Time Monitoring pilot determined that 7-10% energy savings were possible through provision on a real-time energy and dollar monitor in the home in 2006. No additional funds were available beyond the trial program.
- The power factor correction program has realized 4,715 KVAR of capacitance being added to the grid with a total 7,445 KVAR has been added life to date.
- The energy efficient lighting program was implemented to deliver a reduction 601.6 kW and 3,132,979 kWh in 2007. As of Dec 31, 2008 a total of 6,265,958 had been saved life to date.
- The system optimization has resulted in a demand reduction of 199 kW with an annual savings potential of 1,743,678 kWh in 2006. The system has continuously been optimized without adding any further cost.

Various initiatives undertaken through the OPA were an extension of programs that Hydro One Brampton had previously offered (ERIP, Peaksaver & Coupon Programs).

The demonstration projects will continue to be in place to illustrate the potential of new and emerging technologies. The PV system has been viewed by customers both from Brampton and elsewhere as well as by consultants and manufacturers.

In 2007 as Hydro One Brampton programs were completed and various commercial programs were migrated to the provincially based programs.

Programs that continued during 2008 were:

- Technology Demonstration program to promote new and emerging alternate energy alternatives
- On Line Energy Audit
- Line loss reduction work
- Various educational initiatives

Hydro One Brampton will continue to promote and educate its customers as to the benefits of energy conservation.

Appendix A

Evaluation of CDM Programs

Appendix A - Evaluation of the CDM Plan

Highlighted boxes are to be completed manually, white boxes are linked to Appendix C and will be brought forward automatically.

	Total for 2008	Residential	6 Low Income	Commercial	Institutional	Industrial	Agricultural	LDC System	4 Smart Meters	Other #1	Other #2
<i>Net TRC value (\$):</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	NA	\$ -	\$ -
<i>Benefit to cost ratio:</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	0.00	0.00
<i>Number of units delivered:</i>	0	0	0	0	0	0	0	0	NA	0	0
<i>Lifecycle (kWh) Savings:</i>	0	0	0	0	0	0	0	0	NA	0	0
<i>Report Year Total kWh saved (kWh):</i>	9,697,838	4,821,181	0	0	0	3,132,979	0	1,743,678	NA	0	0
<i>Total peak demand saved (kW):</i>	966.8	166	0	0	0	602	0	199	NA	0	0
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>	0.25%	0.12%	0.00%	0.00%	0.00%	0.08%	0.00%	0.04%	NA	0.00%	0.00%
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>	0.125%	0.022%	0.000%	0.000%	0.000%	0.078%	0.000%	0.026%	NA	0.000%	0.000%
<i>1 Report Year Gross C&DM expenditures (\$):</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>2 Expenditures per kWh saved (\$/kWh):</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>3 Expenditures per kW saved (\$/kW):</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

<i>Utility discount rate (%):</i>	7.87
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¹ Expenditures are reported on cumulative basis.

² Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate energy savings.

³ Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate capacity savings.

⁴ Please report spending related to 3rd tranche of MARR funding only. TRC calculations are not required for Smart Meters. Actual expenditures for the total third tranche period need to be reported.

⁵ Includes total for the reporting year, plus prior years, if any (for example, 2008 CDM Annual report for third tranche will include 2007, 2006, 2005 and 2004 numbers, if any).

Appendices B

Discussion of the Program

Appendix B - Discussion of the Program

A. **Name of the Program:** CFL DISTRIBUTED BY HYDRO ONE BRAMPTON

Description of the program (including intent, design, delivery, partnerships and evaluation):

An events activity team was created to attend various civic event throughout 2007. CFL's were distributed to customers during these events. A direct condominium delivery program was delivered in 2007 for condos in Brampton. A partnership with the Brampton Public Library developed the Kill A Watt Save A Lot Program which was continued in 2007. This program allowed customers to borrow energy meters from library branches and receive CFLs.

Measure(s):

	Compact Fluorescent Lights	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	139 kWh/yr		
Efficient technology:	35 kWh/yr		
Number of units:	0		
Measure life (years):	4		
Number of Partipants or unites delivered lfe to date	48784		

B. TRC Results:	Reporting Year	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -	\$4,310,215.00
² TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ -	\$ 59,583.51
Incremental Measure Costs (Equipment Costs)	\$ -	\$ 332,862.00
Total TRC costs:	\$ -	\$ 392,445.51
Net TRC (in year CDN \$):	\$ -	\$3,917,769.49
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	\$ -	\$ 10.98

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

	Summer		Cumulative Lifecycle	Cumulative Annual Savings
	Winter			
Demand savings (kW):				
Energy saved (kWh):	lifecycle	in year	4,642,916	138,572,233
Other resources saved :				
Natural Gas (m3):				
Other (specify):				

Demand Management Programs:

Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	

Demand Response Programs:

Dispatchable load (kW):	
Peak hours dispatched in year (hours):	

Power Factor Correction Programs:

Amount of KVar installed (KVar):	
Distribution system power factor at beginning of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

Peak load savings (kW):		
Energy savngs (kWh):	lifecycle	in year

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):	
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Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. Actual Program Costs:		Reporting Year	Cumulative Life to Date
<i>Utility direct costs (\$):</i>	<i>Incremental capital:</i>	<input type="text"/>	<input type="text"/>
	<i>Incremental O&M:</i>	\$ <input type="text"/> -	\$ 59,583.51
	<i>Incentive:</i>	\$ <input type="text"/> -	\$ 472,227.80
	<i>Total:</i>	\$ <input type="text"/> -	\$ 531,811.31
<i>Utility indirect costs (\$):</i>	<i>Incremental capital:</i>	<input type="text"/>	<input type="text"/>
	<i>Incremental O&M:</i>	<input type="text"/>	<input type="text"/>
	<i>Total:</i>	<input type="text"/>	<input type="text"/>

E. Assumptions & Comments:

The Program cost is the combination of the expenditure for EKC promotion, at various civic events in Brampton, and CFL distributed by Hydro One Brampton. The primary focus of these events was the promotion of energy conservation and the use of CFL's. the EKC programs were promoted as a method for customers to purchase products at discounted prices.

Appendix B - Discussion of the Program

A. **Name of the Program:** Commercial & Industrial Power Factor Correction Program

Description of the program (including intent, design, delivery, partnerships and evaluation):

This program was launched in April, 2006 and targetted the customers having load equal and above 200 kW with an average power factor of 83% or low. A total of nine customers took advantage of this program in 2007 resulting in the addition of 4715 kVAR of capacitance.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	No Correction in Place		
Efficient technology:	Power Factor Correction Program		
Number of participants or units delivered for reporting year:	9		
Measure life (years):	15		
Number of Partipants or unites delievered lfe to date	0		

B. TRC Results:	Reporting Year	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -	\$ 690,949.12
² TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ -	\$ 29,307.92
Incremental Measure Costs (Equipment Costs)	\$ -	\$ 410,636.03
Total TRC costs:	\$ -	\$ 439,943.95
Net TRC (in year CDN \$):	\$ -	\$ 251,005.17
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	\$ -	\$ 1.57

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

	Demand savings (kW):		Cumulative Lifecycle	Cumulative Annual Savings
	Summer	Winter		
	lifecycle	in year		
Energy saved (kWh):				
Other resources saved :				
Natural Gas (m3):				
Other (specify):				

Demand Management Programs:

Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	

Demand Response Programs:

Dispatchable load (kW):	
Peak hours dispatched in year (hours):	

Power Factor Correction Programs:

Amount of KVar installed (KVar):	4715
Distribution system power factor at begining of year (%):	92.5075
Distribution system power factor at end of year (%):	93.5992

Line Loss Reduction Programs:

	Peak load savings (kW):	
	lifecycle	in year
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	

Other Programs (specify):

Metric (specify):	
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D. Actual Program Costs:		Reporting Year	Cumulative Life to Date
<i>Utility direct costs (\$):</i>	<i>Incremental capital:</i>		
	<i>Incremental O&M:</i>	\$ -	\$ 31,748.32
	<i>Incentive:</i>	\$ -	\$ 113,238.56
	<i>Total:</i>	\$ -	\$ 144,986.88
<i>Utility indirect costs (\$):</i>	<i>Incremental capital:</i>		
	<i>Incremental O&M:</i>		
	<i>Total:</i>		

E. Assumptions & Comments:

Distribution system power factor at end of year (%):

Line Loss Reduction Programs:

Peak load savings (kW):

lifecycle

in year

Energy savngs (kWh):

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. Actual Program Costs:

Utility direct costs (\$):

Incremental capital:

Reporting Year

Cumulative Life to Date

Incremental O&M:

Incentive:

Total:

Utility indirect costs (\$):

Incremental capital:

Incremental O&M:

Total:

E. Assumptions & Comments:

Appendix B - Discussion of the Program

A. **Name of the Program:** Conservation Assets Program

Description of the program (including intent, design, delivery, partnerships and evaluation):

This program consists of installation of interval (smart) meters for C&I customers down to demand 150 KW and providing customers with the e-Meter Data Presentment program. This program involves educating our clients to understand their energy consumption usage pattern and to identify possible areas for energy reduction.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Interval Meter		
Efficient technology:	Interval Meter with Telephone Line		
Number of participants or units delivered for reporting year:	41		
Measure life (years):	15		
Number of Participants or unites delievered lfe to date	299		

B. **TRC Results:**

	<u>Reporting Year</u>	<u>Life-to-date TRC Results:</u>
¹ TRC Benefits (\$):		
² TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ -	\$ 630,313.92
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -
Total TRC costs:	\$ -	\$ 630,313.92

Net TRC (in year CDN \$):

Benefit to Cost Ratio (TRC Benefits/TRC Costs):

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

	Summer	Winter	lifecycle	in year	Cumulative Lifecycle
Demand savings (kW):					
Energy saved (kWh):					
Other resources saved :					Cumulative Annual Savings
Natural Gas (m3):					
Other (specify):					

Demand Management Programs:

Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	

Demand Response Programs:

Dispatchable load (kW):	
Peak hours dispatched in year (hours):	

Power Factor Correction Programs:

Amount of KVar installed (KVar):	
Distribution system power factor at begining of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

Peak load savings (kW):	
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	<i>lifecycle</i>	<i>in year</i>
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	

Other Programs (specify):

Metric (specify):	
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D. <u>Actual Program Costs:</u>		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&M:</i>	\$ -	\$ 630,313.92
	<i>Incentive:</i>	\$ -	\$ 482,186.93
	<i>Total:</i>	\$ -	\$ 1,112,500.85
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&M:</i>		
	<i>Total:</i>		

E. Assumptions & Comments:

Appendix B - Discussion of the Program

A. **Name of the Program:** Hydro One Brampton Internal Efficiency

Description of the program (including intent, design, delivery, partnerships and evaluation):

Program has designed to identify areas of potential savings within Hydro One Brampton. The three areas that were specifically targetted were the lighting for the facility, increased maintenance for the internal heatpumps and load profiling of the facility using the e-Meter service. The lighting retrofit was undertaken as part of the C&I load control program. The increased and modified heat pump maintenance was identified as part of this program but the cost to perform the maintenance was attributed to Hydro One Brampton's normal maintenance program.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or unites delievered lfe to date			

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
¹ TRC Benefits (\$):		
² TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ -	\$ 4,955.85
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -
Total TRC costs:	\$ -	\$ 4,955.85

Net TRC (in year CDN \$):

Benefit to Cost Ratio (TRC Benefits/TRC Costs):

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

			Cumulative Annual Savings
	Summer	Winter	
Demand savings (kW):	lifecycle	in year	Cumulative Lifecycle
Energy saved (kWh):			
Other resources saved :			
Natural Gas (m3):			
Other (specify):			

Demand Management Programs:

Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	

Demand Response Programs:

Dispatchable load (kW):	
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Peak hours dispatched in year (hours):

Power Factor Correction Programs:

Amount of KVar installed (KVar):

Distribution system power factor at beginning of year (%):

Distribution system power factor at end of year (%):

Line Loss Reduction Programs:

Peak load savings (kW):

Energy savngs (kWh):

	<i>lifecycle</i>	<i>in year</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

<u>D. Actual Program Costs:</u>		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
<i>Utility direct costs (\$):</i>	<i>Incremental capital:</i>	<input type="text"/>	<input type="text"/>
	<i>Incremental O&M:</i>	\$ -	\$ 4,955.85
	<i>Incentive:</i>	\$ -	<input type="text"/>
	<i>Total:</i>	\$ -	\$ 4,955.85
 <i>Utility indirect costs (\$):</i>	 <i>Incremental capital:</i>	 <input type="text"/>	 <input type="text"/>
	<i>Incremental O&M:</i>	<input type="text"/>	<input type="text"/>
	<i>Total:</i>	<input type="text"/>	<input type="text"/>

E. Assumptions & Comments:

Appendix B - Discussion of the Program

A. **Name of the Program:** Hydro One Brampton Distribution Efficiency Program

Description of the program (including intent, design, delivery, partnerships and evaluation):

This program involved the modelling of the Hydro One Brampton distribution grid on a modelling software that would allow the system to be modelled in various configurations to identify the most effective and efficient configuration. The original base modelling was done in 2005 and the most optimum configuration was determined in 2006. The system was reconfigured in 2006 to provide peak operating efficiency through optimized switching. No further funding provided for this program in 2007.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:	Optimizing Switching Configurations		
Number of participants or units delivered for reporting year:	1		
Measure life (years):	10		
Number of Participants or unites delievered lfe to date			

B. TRC Results:	Reporting Year	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -	\$ 1,075,289.00
² TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ -	\$ 64,465.11
Incremental Measure Costs (Equipment Costs)*	\$ -	0
Total TRC costs:	\$ -	\$ 64,465.11
Net TRC (in year CDN \$):	\$ -	\$ 1,010,823.89

Benefit to Cost Ratio (TRC Benefits/TRC Costs): \$ 16.68

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

	Summer	Winter	Cumulative Lifecycle	Cumulative Annual Savings
Demand savings (kW):				
Energy saved (kWh):				
Other resources saved :				
Natural Gas (m3):				
Other (specify):				

Demand Management Programs:

Controlled load (kW)	199
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	

Demand Response Programs:

Dispatchable load (kW):	
Peak hours dispatched in year (hours):	

Power Factor Correction Programs:

Amount of KVar installed (KVar):	
Distribution system power factor at beginning of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

Peak load savings (kW):			0
	<i>lifecycle</i>		<i>in year</i>
Energy savngs (kWh):		0	0

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	

Other Programs (specify):

Metric (specify):	
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<u>D. Actual Program Costs:</u>		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ -	\$ 64,465.11
	Incentive:		
	Total:	\$ -	\$ 64,465.11
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

E. Assumptions & Comments:

Appendix B - Discussion of the Program

A. **Name of the Program:** Residential Load Control Program

Description of the program (including intent, design, delivery, partnerships and evaluation):

This program was delivered in 2005 and completed in 2006.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or unites delievered lfe to date			

B. TRC Results:	Reporting Year	Life-to-date TRC Results:
¹ TRC Benefits (\$):		
² TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ -	\$ 66,302.00
Incremental Measure Costs (Equipment Costs)	\$ -	0.00
Total TRC costs:		\$ 66,302.00
Net TRC (in year CDN \$):		

Benefit to Cost Ratio (TRC Benefits/TRC Costs):

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

Demand savings (kW):	Summer	-	16.2
	Winter		
	lifecycle	in year	Cumulative Lifecycle
Energy saved (kWh):			
Other resources saved :			Cumulative Annual Savings
Natural Gas (m3):			
Other (specify):			

Demand Management Programs:

Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	

Demand Response Programs:

Dispatchable load (kW):	
Peak hours dispatched in year (hours):	

Power Factor Correction Programs:

Amount of KVar installed (KVar):	
Distribution system power factor at beginning of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

Peak load savings (kW):

lifecycle

in year

Energy savngs (kWh):

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. Actual Program Costs:

Utility direct costs (\$):

Incremental capital:

Incremental O&M:

Incentive:

Total:

Reporting Year

Cumulative Life to Date

\$	-	\$ 66,302.02
\$	-	\$ 13,360.52
\$	-	\$ 79,662.54

Utility indirect costs (\$):

Incremental capital:

Incremental O&M:

Total:

E. Assumptions & Comments:

Appendix B - Discussion of the Program

A. **Name of the Program:** C / I Load Control Program

Description of the program (including intent, design, delivery, partnerships and evaluation):

This program consisted of four specific programs: the Lighting Incentive Program, a photovoltaic project that consisted of a 20 kW commercial project and residential 1.5 kW unit, the third program was the installation of a 1.5 kW wind generator system. The fourth program was the retrofit of the lighting for Hydro One Brampton's facility. In 2008 after various modifications and monitoring of wind turbine generator it was determined that it was not capable of generating power consistently and as a result it was decommissioned.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
<i>Base case technology:</i>	T12 and MH Lights	Nil	Nil
<i>Efficient technology:</i>	Energy Efficient Lights	PV System	Wind Generator
<i>Number of participants or units delivered for reporting year:</i>	0	0	0
<i>Measure life (years):</i>	5	20	10
<i>Number of Participants or unites delievered lfe to date</i>			

B. TRC Results:	Reporting Year	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -	\$ 1,188,442.00
² TRC Costs (\$):	\$ -	
<i>Utility program cost (excluding incentives):</i>	\$ -	\$ 680,851.81
<i>Incremental Measure Costs (Equipment Costs)</i>	\$ -	\$ 126,000.00
<i>Total TRC costs:</i>	\$ -	\$ 806,851.81
Net TRC (in year CDN \$):	\$ -	\$ 381,590.19
<i>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</i>	\$ -	1.47

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

<i>Demand savings (kW):</i>	Summer	601.61		
	Winter	601.61		
	<i>lifecycle</i>		<i>Cumulative Lifecycle</i>	<i>Cumulative Annual Savings</i>
<i>Energy saved (kWh):</i>		3,132,979	16,627,602	6,265,958
<i>Other resources saved :</i>				
<i>Natural Gas (m3):</i>				
<i>Other (specify):</i>				

Demand Management Programs:

<i>Controlled load (kW)</i>	
<i>Energy shifted On-peak to Mid-peak (kWh):</i>	
<i>Energy shifted On-peak to Off-peak (kWh):</i>	
<i>Energy shifted Mid-peak to Off-peak (kWh):</i>	

Demand Response Programs:

<i>Dispatchable load (kW):</i>	
<i>Peak hours dispatched in year (hours):</i>	

Power Factor Correction Programs:

<i>Amount of KVar installed (KVar):</i>	
<i>Distribution system power factor at beginning of year (%):</i>	

Distribution system power factor at end of year (%):

Line Loss Reduction Programs:

Peak load savings (kW):

lifecycle

in year

Energy savngs (kWh):

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. Actual Program Costs:

Utility direct costs (\$):

Incremental capital:

Reporting Year

Cumulative Life to Date

Incremental O&M:

\$ 680,851.81

Incentive:

\$ 84,241.39

Total:

\$ 765,093.20

Utility indirect costs (\$):

Incremental capital:

Incremental O&M:

Total:

E. Assumptions & Comments:

Appendix B - Discussion of the Program

A. **Name of the Program:** Common Communication & Education Program

Description of the program (including intent, design, delivery, partnerships and evaluation):

This program is the primary support program of CDM portfolio. It was designed to provide promotional support for all programs as they are launched and during each program life. An events activity team and vehicle were put in place in 2006. This team attended various civic functions to promote energy conservation. A complete conservation theme based series of billing inserts were designed in 2006 and delivered in 2007

Measure(s):

	Measure 1	Measure 2	Measure 3
Base case technology:	Standard Website		
Efficient technology:	Enhanced Website	Participation in all Community Events and Energy Forums	Literature
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or unites delievered lfe to date			

B. TRC Results:		Reporting Year	Life-to-date TRC Results:
¹ TRC Benefits (\$):			
² TRC Costs (\$):			
	Utility program cost (excluding incentives):	\$ -	\$ 247,665.53
	Incremental Measure Costs (Equipment Costs)	\$ -	
	Total TRC costs:	\$ -	\$ 247,665.53
Net TRC (in year CDN \$):			

Benefit to Cost Ratio (TRC Benefits/TRC Costs):

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

	Summer		Cumulative Lifecycle	Cumulative Annual Savings
	Winter			
	lifecycle	in year		
Demand savings (kW):				
Energy saved (kWh):				
Other resources saved :				
Natural Gas (m3):				
Other (specify):				

Demand Management Programs:

Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	

Demand Response Programs:

Dispatchable load (kW):	
Peak hours dispatched in year (hours):	

Power Factor Correction Programs:

Amount of KVar installed (KVar):	
Distribution system power factor at begining of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

Peak load savings (kW):		
	<i>lifecycle</i>	<i>in year</i>
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	

Other Programs (specify):

Metric (specify):	
-------------------	--

D. Actual Program Costs:		Reporting Year	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ -	\$ 247,665.53
	Incentive:		
	Total:	\$ -	\$ 247,665.53
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

E. Assumptions & Comments:

Appendix B - Discussion of the Program

A. **Name of the Program:** Smart Metering Program

Description of the program (including intent, design, delivery, partnerships and evaluation):

The HOB Smart Metering Pilot Project was started in December of 2006 with completion scheduled by the end of Q1 2007. There are no results to report

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Conventional Meter		
Efficient technology:	Smart Meter		
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or unites delievered lfe to date			

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
¹ TRC Benefits (\$):		
² TRC Costs (\$):		
Utility program cost (excluding incentives):		
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
Net TRC (in year CDN \$):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

	Summer	Winter	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Demand savings (kW):						
Energy saved (kWh):						
Other resources saved :						
Natural Gas (m3):						
Other (specify):						

Demand Management Programs:

Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	

Demand Response Programs:

Dispatchable load (kW):	
Peak hours dispatched in year (hours):	

Power Factor Correction Programs:

Amount of KVar installed (KVar):	
Distribution system power factor at beginning of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

Peak load savings (kW):

lifecycle

in year

Energy savngs (kWh):

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. Actual Program Costs:

Reporting Year

Cumulative Life to Date

Utility direct costs (\$):

Incremental capital:

Incremental O&M:

Incentive:

Total:

Utility indirect costs (\$):

Incremental capital:

Incremental O&M:

Total:

E. Assumptions & Comments:

[Redacted area]

Line Loss Reduction Programs:

Peak load savings (kW):

lifecycle

in year

Energy savngs (kWh):

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. Actual Program Costs:

Utility direct costs (\$):

Incremental capital:

Incremental O&M:

Incentive:

Total:

Utility indirect costs (\$):

Incremental capital:

Incremental O&M:

Total:

Reporting Year

Cumulative Life to Date

	\$0.00	-\$11,587.40
	\$0.00	\$101,557.91
	\$0.00	\$89,970.51

E. Assumptions & Comments:

[Redacted area]

Appendix B - Discussion of the Program

A. **Name of the Program:** Common Research & Planning

Description of the program (including intent, design, delivery, partnerships and evaluation):

No continuation of this program

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or unites delievered lfe to date			

B. TRC Results:	<u>Reporting Year</u>	<u>Life-to-date TRC Results:</u>
¹ TRC Benefits (\$):		
² TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ -	\$ 11,211.58
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -
Total TRC costs:	\$ -	\$ 11,211.58
<hr/> Net TRC (in year CDN \$): <hr/>		

Benefit to Cost Ratio (TRC Benefits/TRC Costs):

C. **Results:** (one or more category may apply) **Cumulative Results:**

Conservation Programs:

Demand savings (kW):	Summer				
	Winter				
		<i>lifecycle</i>	<i>in year</i>	<i>Cumulative Lifecycle</i>	<i>Cumulative Annual Savings</i>
Energy saved (kWh):					
Other resources saved :					
Natural Gas (m3):					
Other (specify):					

Demand Management Programs:

Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	

Demand Response Programs:

Dispatchable load (kW):	
Peak hours dispatched in year (hours):	

Power Factor Correction Programs:

Amount of KVar installed (KVar):	
Distribution system power factor at beginning of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

Peak load savings (kW):

lifecycle

in year

Energy savngs (kWh):

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. Actual Program Costs:

Utility direct costs (\$):

Incremental capital:

Incremental O&M:

Incentive:

Total:

Reporting Year

Cumulative Life to Date

\$	-	\$	11,211.58
\$	-	\$	-
\$	-	\$	11,211.58

Utility indirect costs (\$):

Incremental capital:

Incremental O&M:

Total:

E. Assumptions & Comments:

Appendix B - Discussion of the Program

A. **Name of the Program:** RT Monitoring Pilot

Description of the program (including intent, design, delivery, partnerships and evaluation):

This program was a pilot project that was undertaken in 2005

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or unites delievered lfe to date			

B. TRC Results:	Reporting Year	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -	\$ 5,029.00
² TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ -	\$ 40,312.60
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	\$ -	\$ 40,312.60
Net TRC (in year CDN \$):		-\$ 35,283.60
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	-	0.12

C. Results: (one or more category may apply)	Cumulative Results:			
Conservation Programs:				
Demand savings (kW):	Summer			
	Winter			
	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):				
Other resources saved :				
Natural Gas (m3):				
Other (specify):				
Demand Management Programs:				
Controlled load (kW)				
Energy shifted On-peak to Mid-peak (kWh):				
Energy shifted On-peak to Off-peak (kWh):				
Energy shifted Mid-peak to Off-peak (kWh):				
Demand Response Programs:				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
Power Factor Correction Programs:				
Amount of KVar installed (KVar):				
Distribution system power factor at beginning of year (%):				
Distribution system power factor at end of year (%):				

Line Loss Reduction Programs:

Peak load savings (kW):

lifecycle

in year

Energy savngs (kWh):

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. Actual Program Costs:

Reporting Year

Cumulative Life to Date

Utility direct costs (\$):

Incremental capital:

Incremental O&M:

Incentive:

Total:

Utility indirect costs (\$):

Incremental capital:

Incremental O&M:

Total:

\$	-	\$ 40,312.60
		\$ 170.00
\$	-	\$ 40,482.60

E. Assumptions & Comments:

Appendix C

Programs and Portfolio Totals

Appendix C - Program and Portfolio Totals

Report Year:

1. Residential Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Co st Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Spring EKC	\$ -	\$ -	\$ -	0.00				
Fall EKC	\$ -	\$ -	\$ -	0.00			166	
CFL Distributed by Hydro One Brampton	\$ -	\$ -	\$ -	0.00	4,642,916		0	\$0.00
Holiday LightExchange	\$ -	\$ -	\$ -	0.00	178,265			\$0.00
Residential Load Control Program	\$ -	\$ -	\$ -	0.00				\$0.00
Communication & Education	\$ -	\$ -	\$ -	0.00				\$0.00
Residential Real Time Monitoring	\$ -	\$ -	\$ -	0.00				\$0.00
Research & Planning	\$ -	\$ -	\$ -	0.00				\$0.00
	\$ -	\$ -	\$ -	0.00				\$0.00
	\$ -	\$ -	\$ -	0.00				\$0.00
*Totals App. B - Residential	\$ -	\$ -	\$ -	0.00	4,821,181	0	166	\$ -
<i>Residential Indirect Costs not attributable to any specific program</i>	→							
Total Residential TRC Costs		\$ -				4,642,916	0	
**Totals TRC - Residential	\$ -	\$ -	\$ -	0.00				

2. Commercial Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Co st Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
<i>Technology DemonstrationProject</i>		\$ -	\$ -	0.00				\$ -
		\$ -	\$ -	0.00				
		\$ -	\$ -	0.00				
		\$ -	\$ -	0.00				
		\$ -	\$ -	0.00				
		\$ -	\$ -	0.00				
		\$ -	\$ -	0.00				
		\$ -	\$ -	0.00				
		\$ -	\$ -	0.00				
		\$ -	\$ -	0.00				
		\$ -	\$ -	0.00				
*Totals App. B - Commercial	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Commercial Indirect Costs not attributable to any specific program</i>	→							
Total TRC Costs		\$ -						
**Totals TRC - Commercial	\$ -	\$ -	\$ -	0.00				

3. Institutional Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
*Totals App. B - Institutional	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Institutional Indirect Costs not attributable to any specific program								
Total TRC Costs		\$ -						
**Totals TRC - Institutional	\$ -	\$ -	\$ -	0.00				

4. Industrial Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Power fFactor Program	\$ -	\$ -	\$ -	0.00				\$ -
Conservation Assets Program	\$ -	\$ -	\$ -	0.00				\$ -
C - I Load Control Program	\$ -	\$ -	\$ -	0.00	3,132,979		602	\$ -
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
*Totals App. B - Industrial	\$ -	\$ -	\$ -	0.00	3,132,979	0	602	\$ -
Industrial Indirect Costs not attributable to any specific program								
Total TRC Costs		\$ -						
**Totals TRC - Industrial	\$ -	\$ -	\$ -	0.00				

5. Agricultural Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Co st Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program F			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
*Totals App. B - Agricultural	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Agricultural Indirect Costs not attributable to any specific program								
Total TRC Costs		\$ -						
**Totals TRC - Agricultural	\$ -	\$ -	\$ -	0.00				

6. LDC System Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Co st Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Hydro One Brampton Internal efficiency		\$ -	\$ -	0.00	1,743,678		199	\$ -
Hydro One Brampton Distribution efficiency				0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
			\$ -	0.00				
*Totals App. B - LDC System	\$ -	\$ -	\$ -	0.00	1,743,678	0	199	\$ -
LDC System Indirect Costs not attributable to any specific program								
Total TRC Costs		\$ -						
**Totals TRC - LDC System	\$ -	\$ -	\$ -	0.00				

7. Smart Meters Program

Only spending information that was authorized under the 3rd tranche of MARR is required to be reported for Smart Meters.

Report Year Gross C&DM Expenditures (\$)

→

8. Other #1 Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Co st Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program F			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
*Totals App. B - Other #1	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Other #1 Indirect Costs not attributable to any specific program								
Total TRC Costs		\$ -						
**Totals TRC - Other #1	\$ -	\$ -	\$ -	0.00				

9. Other #2 Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
*Totals App. B - Other #2	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Other #2 Indirect Costs not attributable to any specific program</i>								
Total TRC Costs		\$ -						
**Totals TRC - Other #2	\$ -	\$ -	\$ -	0.00				

LDC's CDM PORTFOLIO TOTALS

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
*TOTALS FOR ALL APPENDIX B	\$ -	\$ -	\$ -	0.00	9,697,838	\$ -	967	\$ -
<i>Any other Indirect Costs not attributable to any specific program</i>								
TOTAL ALL LDC COSTS		\$ -						
**LDC' PORTFOLIO TRC	\$ -	\$ -	\$ -	0.00				

* The savings and spending information from this row is to be carried forward to Appendix A.

** The TRC information from this row is to be carried forward to Appendix A.

Appendix D

Total Life Evaluation of CDM Plan

Appendix D - Total Life Evaluation of the CDM Plan

Table is to be completed manually by totalling the information from each year of activity

	⁵ Cumulative Totals Life-to-date	Residential	⁶ Low Income	Commercial	Institutional	Industrial	Agricultural	LDC System	⁴ Smart Meters	Other #1	Other #2
Net TRC value (\$):	\$ 7,884,354.02	\$ 6,821,558.02	\$ -	\$ 11,587.00	\$ -	\$ 45,340.00	\$ -	\$ 1,005,869.00	\$ -	-	-
Benefit to cost ratio:	3.32	5.88	0.00	0.00	0.00	1.02	0.00	9.52	0.00	0.00	0.00
Number of participants or units delivered:	306,528	306,199	0	0	0	328	0	1	0	0	0
Lifecycle (kWh) Savings:	178,064,828	144,000,446	0	0	0	16,627,602	0	17,436,780	0	0	0
Total kWh saved (kWh):	43,422,480	31,925,488	0	0	0	6,265,958	0	5,231,034	0	0	0
Total peak demand saved (kW):	985	184	0	0	0	602	0	199	0	0	0
Total kWh saved as a percentage of total kWh delivered (%):	0.34%	0.25%	0.00%	0.00%	0.00%	0.05%	0.00%	0.04%	0.00%	0.00%	0.00%
Peak kW saved as a percentage of LDC peak kW load (%):	0.131%	0.024%	0.000%	0.000%	0.000%	0.080%	0.000%	0.026%	0.000%	0.000%	0.000%
¹ Gross C&DM expenditures (\$):	\$ 3,235,501	\$ 1,063,315.26	\$ -	\$ 89,971.00	\$ -	\$ 2,012,794.00	\$ -	\$ 69,420.75	\$ -	\$ -	\$ -
² Expenditures per kWh saved (\$/kWh):	\$ 0.018	\$ 0.007	\$ -	\$ -	\$ -	\$ 0.121	\$ -	\$ 0.004	\$ -	\$ -	\$ -
³ Expenditures per kW saved (\$/kW):	\$ 3,283.17	\$ 5,763.85	\$ -	\$ -	\$ -	\$ 3,343.51	\$ -	\$ 348.85	\$ -	\$ -	\$ -

Utility discount rate (%):	7.87
----------------------------	------

¹ Expenditures are reported on cumulative basis.

² Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate energy savings.

³ Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate capacity savings.

⁴ Please report spending related to 3rd tranche of MARR funding only. TRC calculations are not required for Smart Meters. Actual expenditures for the total third tranche period need to be reported.

⁵ Includes total for the reporting year, plus prior years, if any (for example, 2008 CDM Annual report for third tranche will include 2007, 2006, 2005 and 2004 numbers, if any).

⁶ Includes totals from Low Income programs that fall under both commercial and residential.