Conservation and Demand Management
2006 Annual Report

3rd Tranche Funding

Ontario Energy Board File No. RP-2004-0203
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EXECUTIVE SUMMARY

This report is submitted in fulfillment of the requirements of the Ontario Energy Board (the "Board" or the OEB) issued on December 10, 2004, Board file number RP-2004-0203. For Enersource, the Board issued its Final Order on February 3, 2005 under docket number RP-2004-0203 / EB-2004-0489. The report is structured according to the Board's March 2007 Guideline for Annual Reporting of CDM Initiatives and presents an account of the CDM initiatives and programs started or continued by Enersource Hydro Mississauga (EHM or Enersource) in 2006.

In 2005 Enersource launched its CDM program and – by December 31st, 2006 - invested approximately $6.0M which resulted in savings to-date of 8.6 million kWh. It should be noted that a number of the CDM programs implemented still present high development costs with respect to their projected savings to-date and that their economics will improve significantly, as savings will keep accruing against lower required expenditures.

Enersource's CDM Plan involves the following type of initiatives, in the specified areas:

- **Conservation and Demand Management**
  - *Residential and Small Commercial (<50kW)*
  - *Commercial, Industrial and Institutional (>50kW)*

Highlights: - In 2006 we implemented measures resulting in about 16,787,000 kWh annual energy savings and a summer peak demand savings of 8.2 MW in the residential and in the CI&I sectors.

- All initiatives under all CDM programs were screened for Total Resource Cost (TRC) cost test. We calculated an average TRC Benefit-Cost Ratio for the year of 1.35 and of 2.96 for the initiatives launched in the CI&I sector. The Residential & Small Commercial Sector was penalized by high development costs for some initiatives. However, benefits will keep accruing, further improving the economics.
- Worked with the Ministry of Energy, the Ontario Power Authority (OPA) and CLD partners, to consolidate the powerWISE brand launched in 2005 and a number of co-branded, mass-market CDM initiatives. These include:
  - Water Heater Tune-up
  - Library Program
  - Program-in-a-Box
  - OPA Retailer Coupon Program
  - OPA Refrigerator Retirement Program
  - LED (Light Emitting Diode) Christmas Lights Exchange

- In support of the Ministry of Energy's commitment to the installation of 800,000 SMART meters across Ontario by 2007, Enersource installed 550 such meters in a pilot program, targeting the residential sector. As well, 201 SMART Meters were installed in a 186 unit residential building, converted from bulk metering to individual metering.

- A powerWISE Business Incentive Program was launched, to help improve the economics of certain energy conservation measures and their implementation.
- Load control initiatives were developed, which provide mechanisms to respond to price signals in all market sectors and to provide needed relief, during critical periods of peak demand.
- Cooperative efforts were investigated, with the City of Mississauga, the Region of Peel, local social housing corporations, non-profit homes and co-op housing.

- **Distribution Loss Reduction**
  - o *Voltage Profile Management*

Highlights: - A pilot program was developed, to investigate the effectiveness of technologies aimed at reducing power grid distribution losses. To be completed in 2007, it involves voltage conditioning at a distribution transformer station.

- The initial TRC indicates an expected savings of approximately 1,553,000 kWh and a peak reduction of 300 kW. These are preliminary numbers and are subject to change pending final installation and verification of costs and savings.

- **Distributed Energy**
  - o Load Displacement
  - o Stand-by Generators

Highlights: - Started the design and development of a Demand Response Control Room, which will become the single dispatch point for demand response (DR) programs and loads aggregated by Enersource.
- Negotiations were conducted with a number of prospective customers for dispatching loads in DR. Total summer peak dispatchable load is now 7.2 MW, including CI&I Load Control and Stand-by Generators.
- 2006 TRC Cost-Benefit Ratios are projected at 3.65 and 1.5 respectively.

- **Overall Program Support**
  - o powerWISE Brand
  - o powerWISE Fleet Branding
  - o powerWISE Website
  - o Special Events Van
  - o CDM Program Compliance
  - o Code Green – TV Show

Highlights: - The Special Events Van initiative, with its team, greatly supports all our CDM efforts, by bringing the conservation message and means to start conserving directly to our customers. Activities, costs and results related to this initiative were compiled under the Co-Branded Mass Market Program, significantly contributing to that program's excellent TRC Benefit-Cost Ratio of 3.54 for 2006.

- The Special Events Van team delivered energy conservation messages, participating at 50 events to-date, 10 of which in 2006. The team engaged thousands of people, distributing to-date 10,240 CFLs and thousands of promotional items and educational material.
- The powerWISE website is designed to provide customers a centralized source of information on energy conservation issues and cost-effective measures. The powerWISE brand has been used by the Ministry of Energy in their 2006 advertising campaign. Links are provided to each CLD member's website, where LDC-specific program information can be accessed. Enersource's site proved very successful, registering over 167,000 visitors in 2006.
- Developed a governance structure, to develop processes to manage project evaluations, approvals, status tracking and results monitoring and verification.

The cumulative TRC Benefit-Cost Ratios of initiatives launched in 2006 was 1.35. Some projects were launched late in the year. The benefits of these projects will continue to accrue in 2007, as deployment increases, further improving results.

The first two years of Conservation and Demand Management were successful for Enersource. Collaborative efforts with the Coalition of Large Distributors allowed us to launch many initiatives in a similar manner, providing for more consistent messaging in our promotional campaigns, while leveraging individual distributors' investments.

The CLD members - representing 40% of the Province's load - have worked well together. They have jointly developed and delivered programs and launched the *powerWISE* brand. Synergistic efforts also helped promote the Provincial directive to foster a ***conservation culture*** in Ontario.

1. Introduction

On December 10, 2004 the Ontario Energy Board ("Board") issued its oral decision in the RP-2004-0203 proceeding, with respect to six (6) applications filed by the Coalition of Large Distributors ("CLD") comprising Enersource Hydro Mississauga (Enersource), Horizon Utilities Corporation, Hydro Ottawa Limited, PowerStream Inc., Toronto Hydro-Electric System Limited and Veridian Connections. Among other things, that decision requires that each distributor file an annual CDM Report. This Report fulfills that requirement.

The Board's decision indicated that annual reporting "should be done on a calendar year and should be filed with the Board no later than March 31st of the following year" and would be subject to a public review. On December 21st, 2005 the Board issued a Guideline for Annual Reporting of CDM Initiatives that explained more fully the requirements. On March 1st 2007 the Board issued Amended Requirements for Annual Reporting of Conservation and Demand Management (CDM) Initiatives[1]. This report has been prepared in accordance with those guidelines.

This report gives an overview of Enersource's CDM Plan, an assessment of benefits, a description of each initiative undertaken under each program and an appraisal of results, where feasible, and lessons learned.

CDM initiatives were organized under the following program headings:

- **Conservation and Demand Management**
  - *Residential and Small Commercial (<50kW)*
    - Co-Branded Mass Market Program
    - SMART Meter Pilot Program
    - Residential Load Control Program
    - SMART Avenues
    - Social Housing Program
  - *Commercial, Industrial and Institutional (>50kW)*
    - SMART Meter Program
    - Leveraging Energy Conservation and/or Load Management Program
    - Load Control Initiative
    - On-the-Bill Financing
- **Distribution Loss Reduction**
  - Voltage Profile Management
- **Distributed Energy**
  - Load Displacement
  - Stand-by Generators
- **Overall Program Support**
  - powerWISE Website and Brand Development
  - Special Events Van
  - General Program Support
  - CDM Program Compliance

[1] Available at: http://www.oeb.gov.on.ca/html/en/industryrelations/ongoingprojects_distconservation.htm

Each initiative or program was assessed using the OEB's Total Resource Cost (TRC) Test Guide[2] - as revised in October 2006.

[2] Available at: http://www.oeb.gov.on.ca/documents/cases/RP-2004-0203/cdm_trcguide_021006.pdf

2. Evaluation of the CDM Plan

In this second year of our CDM Plan, Enersource Hydro Mississauga successfully continued the development and implementation of programs started in 2005, reaching all market sectors.

Some components of our CDM plan relate to the deployment of Smart meters, which is being undertaken to support provincial government policy direction. The impact of Smart meters on kWh consumption and kW demand has not yet been definitively assessed.

Societal benefits resulting from our portfolio of CDM initiatives are evidenced by a TRC Cost-Benefit ratio of 1.35. Economics are expected to improve moving forward, since accruing benefits will reduce the impact of high initial program costs.

A detailed discussion of the impact on energy conservation and demand management resulting from the implementation of the various programs and projects is presented in Section 3.

Energy savings and TRC benefits for each program heading are summarized in a table format in **Appendix A – Evaluation of the CDM Plan**.

Individual Programs' results are presented in a series of appendices in **Appendix B – Discussion of the Program**.

New for 2006 is **Appendix C - Program and Portfolio Totals**, which presents an overview of CDM Programs and Portfolio results.

3. Discussion of the Programs

3.1 Residential and Small Commercial (< 50 kW)

Co-Branded Mass Market Program

Description
This flagship Co-Branded Mass Market program (i.e. powerWISE) is a multifaceted approach to fostering the conservation culture in Ontario. Through development of a significant cooperative effort among six of the largest municipal LDCs, this program is becoming synonymous with initiatives such as Compact Fluorescent Lighting (CFL) Change-out programs, LED Christmas Lights Exchanges, Energy Star, Multi-Choice, energy audits, hot water heater blanket wraps, school based education and a host of other programs aimed at providing customers with the tools and education needed to reduce their energy usage. Access to online services such as energy consumption calculators, an energy expert and personalized energy audit services are components of this program.

Target users
Mass-market including residential, commercial and industrial.

Benefits
Increased awareness, improved product supply, culture shift, and significant demand and energy reductions.

Discussion of 2006 Activities

powerWISE® Brand

Action

- Hamilton Utilities Corp. (HUC) registered the powerWISE mark prior to CDM activities.
- During CLD CDM plan preparation, it was agreed that the CLD would collectively develop a co-brand. HUC offered powerWISE for joint ownership and the CLD agreed that we would use this mark.
- Television, radio and print advertising campaigns were executed throughout 2006 to raised awareness of the brand.
- Weekly conference call meetings are held with the communications subcommittee to coordinate all powerWISE and branding activities.
- The Ministry of Energy (Director of Communications) participates on weekly conference calls, as does the Ontario Power Authority (Director of Marketing).

Results to Date

- powerWISE is being used extensively by the CLD to brand CLD conservation programs.

- The powerWISE brand has been used by the Ministry of Energy in their 2006 advertising campaign.
- The powerWISE brand has also been translated to Eco-Consumer for French language purposes.
- Interest in the powerWISE/Eco-Consumer brand has been expressed by the Ministry of Energy, the OPA, Hydro One and other utilities.

Next Steps

- Continue to develop and promote the powerWISE brand.

powerWISE Website

Action

- The powerWISE website www.powerwise.ca was jointly developed and announced on April 1st, 2005.
- This website provides one common location for general electricity conservation information and useful industry links.
- Links have also been provided for customers to reach their CLD member's home website for specific local program information.

Results to Date

- From January 1 to December 31, 2006 the PowerWISE website has received over 167,000 visitors.
- We also receive several phone calls per day from Enersource customers wanting more information on conservation.
- The web site has had visitors from LDCs who subsequently called Enersource looking for information on subscribing to powerWISE.

Next Steps

- Continue to develop and promote www.powerwise.ca in conjunction with the Ministry of Energy, as a source of energy conservation information.
- Continue to improve and enhance the website with new materials and applications.

Ontario Power Authority – Every Kilowatt Counts

The powerWISE coupon redemption retailer program developed last year by the CLD was adopted by the Ontario Power Authority and re-launched Province-wide as the "Every Kilowatt Counts" Spring and Fall retail campaigns. The campaigns created enormous awareness and delivered over 12,500,000 kWh in energy savings in Mississauga or enough electricity to power almost 1,400 homes annually.

Action

- The Conservation Bureau of the OPA developed major Spring and Fall mass-market retail campaigns, to advance the penetration of energy efficient devices into the marketplace through point of purchase redeemable coupons.
- Coupon and information booklets were distributed through the mail to all Ontario households for each campaign.
- Spring Campaign May 1, 2006 to August 31, 2006
    - Compact Fluorescent Light bulbs (CFL) ($5.00 off per multi-pack)
    - Indoor/outdoor timers ($5.00 off)
    - Ceiling fans ($25.00 off)
    - Programmable thermostats ($15.00 off)
    - Promoted Keep Cool – a Clean Air Foundation program
    - Promoted Cool Saving Rebate furnace and air conditioner programs

- Fall Campaign October 1, 2006 to November 30, 2006
    - Compact Fluorescent Light bulbs (CFL) ($3.00 off)
    - Seasonal LED lights (SLEDs) ($5.00 off string of 50 or more)
    - Motion Sensor Switches ($5.00 off)
    - Programmable Thermostats ($15.00 off)
    - Programmable Baseboard Thermostats ($15.00 off)
    - Dimmer Switches ($3.00 off)

Results to Date

- All Enersource Hydro customers received the coupon booklets both in spring and fall.
- 56,776 coupons were redeemed locally.
- The Campaigns produced savings of about 168 kW and 12,548,533 kWh.

Next Steps

- The Conservation Bureau will continue to operate this program.
- The Spring 2007 EKC program will run April 16 to June 17.
- A Fall 2007 EKC program is being planned.
- Enersource will support program with local marketing.

Ontario Power Authority – Refrigerator Retirement Program

Action

- Enersource Hydro Mississauga is the delivery partner for the OPA Refrigerator Retirement program.
- The Refrigerator Retirement Program provides pick-up and recycling (a $110 value).
- The OPA is piloting a number of approaches in 6 different LDCs. At Enersource, there is no other incentive, the customer simply has their fridge picked up and taken away for free. There is also considerable marketing support provided, with bill inserts, newspaper ads and billboards.

Results to Date

- In this program 1,117 old refrigerators were removed and properly recycled from Enersource Hydro customers' homes.
- The campaign produced energy savings of 1,340,400 kWh and summer peak demand savings of 304 kW.

Next Steps

- The OPA will be reviewing the results after the pilots and determine whether the program rolls out across the province and what incentive will be applied.

powerWISE Fleet Branding

Action

- On Nov 3rd, 2005 the CLD announced the Fleet Branding Program.
- Conservation messages under the powerWISE brand were applied to LDC vehicles to increase conservation messaging to the mass market.

Results to Date

- 70 Enersource vehicles have been branded.
- Increased public awareness of the need to conserve.

Next Steps

- Brand new fleet vehicles, as acquired.

Code Green – TV Show

Action

- This initiative consists of sponsoring a six-part educational mini-series television show, entitled "Code Green Canada", featuring the retrofit of twelve homes from across the country.

Results to Date

- The program series was broadcast by CBC in May 2006 and provided homeowners in Mississauga and across Canada with information on how to reduce energy consumption and save money.
- Increased awareness of conservation actions and how to take them.
- Promotion of a conservation culture shift.

Next Steps

- No specific actions are required.

Water Heater Tune-Up

Action

- The Tune-ups are completed by contractors who visit the homes of Mississauga residents with electric water heater tanks.
- The Tune-up team:
  - wraps a thin insulating jacket around the hot water tank
  - installs up to four compact florescent light bulbs
  - installs a low flow shower head
  - installs a water aerators for sink taps
- Customers are left with conservation literature.

Results to Date

- 3rd Tranche funding for this program was exhausted by April 30th.
- 1,621 Tune-Ups were completed by April 30th.
- Installed or distributed to-date:
  - 1,592 Efficient Showerheads
  - 4,062 Faucet Aerators
  - 1,200 Faucet Washers
  - 1,553 Tank Wraps
  - 6,546 CFLs
  - 307 m of hot water tubing insulation.
- Summer peak demand reductions of 102 kW are projected.
- Resulting annual energy savings are over 2,182,500 kWh.

Next Steps

- The program was terminated at the end of April for lack of funding.
- This program was submitted to the OEB as a 2nd generation supplemental CDM plan and continued past April 30th under that funding mechanism.

LED Holiday Light Exchange

Action

- An exchange campaign that encourages customers to exchange their incandescent Christmas lighting, for energy saving LED lights.
- Exchange LED lights during the Christmas season, at various special events in Mississauga.
- Partner with community food banks, to deliver energy savings to the city's neediest residents during the Holiday Season.
- Customers were also given energy efficiency educational information.
- Dispose of old inefficient lights in an environmentally friendly manner.

Results to Date

- 3rd Tranche funding for this program was exhausted in April and no LEDs were distributed in 2006 under this funding mechanism. However:
- Enersource distributed around 11,000 LED light sets in 2005.
- No summer peak demand reductions attributable.
- Annual energy savings in 2005 were about 190,000 kWh.

Next Steps

- This program was submitted to the OEB as a 2nd generation supplemental CDM plan and continued in 2006 under that funding mechanism.

Library Loan Program

Action

- The "Watt Reader" energy measuring device lending program was developed in cooperation with the Mississauga Library System.
- Customers borrowing the Watt Reader device received operating instructions and two 13 W energy efficient compact fluorescent light (CFL) bulbs.
- Customers were also given details on how to calculate the cost of using any appliance, based on the readings from the device.

Results to Date

- Enersource customers borrowed the Watt Reader devices 927 times to the end of April.
- 1,320 CFLs were distributed with the devices in 2006 to April 30th.
- Annual energy savings in were projected at about 144,000 kWh.
- Non summer-peak demand reductions for 2006 were 62 kW.

Next Steps

- Consider feasibility of continuing the program in 2007 under other funding.

Program-In-A-Box

Action

- Enersource developed the Program-In-A-Box concept.
- The first Program-In-A-Box covered the Water Heater Tune-up program.
- The On-the-Bill Payment Plan Program was also developed.

Results to Date

- Good level of interest from utilities who have received the Water Heater Tune-Up Program-In-A-Box.
- Distributed information packages to representatives of Ontario LDCs.

- Program-In-A-Box was offered to the OPA for distribution to encourage other LDCs to follow a similar format.

Next Steps

- Develop and launch other programs in series, e.g., Residential Load Control.
- Consideration will be given to making the Program-In-A-Box programs part of the benefits of joining powerWISE.

Mississauga Local Sponsorship

- Appeared in 6 TV segments, promoting energy conservation
- Developed Enersource powerWISE Power Play to give conservation tips during Mississauga's hockey team Ice Dogs playoffs.

Co-Branded Mass Market Program Results

- All initiatives' results refer to April 30th, when 3rd Tranche funding for this program was exhausted.
- 2006 annual energy savings from all initiatives are projected at about 14,647,000 kWh.
- Summer on-peak demand savings are projected at 472 kW and winter on-peak at 1,890 kW.
- TRC results yielded a Benefit-Cost ratio of 3.5.

SMART Meter Pilot Programs

Description:
Pilot programs for residential SMART meters were implemented to assess the metering, communications, settlement, load control and other technologies that could be used to accommodate the wider application of SMART meters in the future. Further, sub-metering opportunities for the purpose of customer information in bulk-metered situations (i.e. condominiums) may be considered.

Enersource Hydro Mississauga launched a pilot project, deploying 550 SMART meters in a central Mississauga community in the area of Queensway West. The program will evaluate many aspects of smart meter technology, from the information that consumers receive, to the data arriving to the utility.

Target users
Residential and small commercial customers.

Benefits
This program supports the Minister of Energy's commitment to the installation of 800,000 SMART meters across Ontario by 2007. It will provide Enersource with the experience and knowledge needed to efficiently expand the use of SMART meters over the next several years.

In conjunction with appropriate rate structures, the program will provide customers participating in the pilot program with an incentive to reduce or shift energy consumption.

Description of 2006 Activities

SMART Meters – Elster MeshNetwork Pilot

Action

- A conservation forum and information session on the launch of a 550 home Smart Meter Pilot Program in a small neighborhood in Mississauga was held in July 2005.
- The purpose of the pilot was to test the Elster MeshNetwork SMART metering technology, with respect to meter functionality and communications performance, to determine if it would be a viable option for full deployment by Enersource.

Results to Date

- 550 SMART meters were installed under 3rd Tranche funding - all in 2005.
- As part of the SMART meter pilot we have combined a load control program. This offers an incentive or possible discount on the bill in exchange for us being able to control load during peak periods. We are currently recruiting customer volunteers in the SMART meter pilot area to participate in this program.
- There have been public meetings and information sessions held for the 550 residents to advise of the benefits of the SMART metering system.

- A Web presentment tool was developed and introduced to customers. Those participating will be able to monitor their consumption patterns on-line, to adapt accordingly and reduce costs. This system has presented significant communications problems, which are being addressed in cooperation with the vendor.

Next Steps

- No more installations are planned for this pilot. We have combined conservation products with the SMART Meter, to leverage the smart meter potential as a behavioral changing device, with respect to energy consumption habits.
- As such, this program is now at the core of the SMART Avenues Program described next.

SMART Avenues – A Community Pilot *(Previously named "Electric Avenue")*

Description
A pilot neighborhood of selected homes and/or small businesses may be selected to become a "showcase" community to demonstrate the overall effectiveness of smart energy conservation initiatives including energy audits, retrofits, load control devices and SMART meters.

Target users
Existing Residential customers.

Benefits
This project will create a road map for LDC that will demonstrate the before and after impact of energy conservation and load control initiatives with the introduction of Smart Meters and Time-Of Use Rates.

Description of 2006 Activities

Enersource/CLD RFP – Residential Load Control

Action

- This program is part of the Smart Meter program.
- As part of the Smart Meter program, we are testing various technologies within a home, to demonstrate the potential savings that could result from an increased awareness of consumption levels and patterns through the day.
- Customers that receive a Smart Meter will eventually receive Time-Of-Use (TOU) rates and will be able to use electricity more knowledgeably.

Results to Date

- A Smart Avenues Community of 550 residents in the same neighborhood was equipped with Smart Meters, to form the core of this pilot program.
- The 550 customers have been well advised through public meetings and information sessions – including a video CD - of our plans, which included a number of new technologies and initiatives:
  - In-Home Displays
  - Time-of-Use Clocks
  - Smart Appliances
  - Power-Down on Peak
  - Peak Saver
- 80 customers have signed up to-date for the Smart Metering Web Presentment Page. It is still too early to draw any conclusions.
- To increase customers' awareness of their consumption, 4 different In-Home Display devices were sourced or developed:
  - Power consumption and cost monitoring device 1.
    - We experienced technology problems with the device and decided to proceed with alternative technologies.

- Power consumption and cost monitoring device 2.
  - We found that the installation of this device was prohibitively expensive.
- Power consumption and cost monitoring device 3.
  - This monitoring device is still at a pre-commercialization development stage and therefore non deployable yet.
- Power consumption and cost monitoring device 4.
  - It is a 24 hour movement, with clearly indicated time-of-use periods. We plan to deploy them together with the mass deployment of the Smart Meters.

- The Power-Down on Peak pilot project has ended and the consultant's report submitted to us. Results indicate that an average of 3.5 kW of DR capacity per household are available from the 8 homes sampled within the Smart Avenues community.
- In order to get as many Peak Saver thermostats installed in the Smart Avenues community, a Home Tune-up program was also offered. As part of the Home Tune-up package, customers receive the Peak Saver programmable thermostat.
- There have been 7 customers who have received the Peak Saver home tune up out of a goal of 50.
- The lack of TOU Rates and the problems with the supply of essential technologies or the poor take up on certain initiatives severely limited the scope of the program, which resulted in poor TRC results.
- Annual energy savings are projected at 9,471 kWh and 35 kW of avoided summer peak demand. Too early to observe behavioral changes.

Next Steps

- Re-market the Peak Saver/Home Tune-up program in early 2007, in order to meet the goal of 50 installations within Smart Avenues.

Residential Load Control Initiative

Description
Load control uses a real time communications link to enable or disable customer loads at the discretion of the utility. These controls are usually engaged during system peak periods or when required to relieve pressure on the system grid and may include such "dispatchable" loads as electric hot water tanks, pool pumps, lighting, air conditioners, etc. For this demonstration project the primary focus will be controlling central air conditioning units.

Target users
Direct load control applies to all market segments. Though the control systems and technologies may vary by market segment, the methodology remains the same. This demonstration project will be marketed to residential and small commercial customers that have central air conditioning units and/or electric water heaters and/or pool pumps.

Benefits
Load control allows customers to respond quickly to external price signals. This also provides a mechanism for utilities to relieve pressure on constrained areas within the distribution grid and also reduces the need to bring on large peaking generators.

Description of 2006 Activities

Residential Load Control Initiative

Action

- Enersource is targeting 1,600 residential and 200 small commercial customers to control their central air conditioners with outside condensers.
- In addition to central air conditioners, customers with electric water heaters and/or pool pumps will be encouraged to have controls installed on those devices.
- Carry out 2 Direct Mail campaigns directed to customers.

Results to Date

- A web portal site for customers to remotely change their thermostat setting was set up.
- Over 12,000 direct mail pieces were sent out in 2 Direct Mail campaigns.
- Success of Direct Mail campaign was tracking at approximately 2%.
- The control device is a radio-controlled programmable thermostat.
- Based on contractor's feedback, the recruitment of host sites and installation of programmable thermostats proceeds well, according to plan.
- 202 thermostat installations to the end of 2006, including seven in the Smart Avenues community.
- 3rd Traunche budget for this program was increased to $783K from the original $580K.

Next Steps

- Continue to recruit host sites, according to plan.
- Install 30 pool pump load control relays (LCR).
- Full installation and deployment is expected by mid-summer of 2007.

Social Housing Program

Description
The Social Housing Sector is a prime candidate for CDM incentives, due to funding constraints that characterizes it and high incidences of electric heating.

Target users
Local social housing corporations, non-profit homes and co-op housing.

Benefits
Synergies can be created though the combined initiatives of the various agencies.

Description of 2006 Activities

Enersource Social Housing Initiative

Action

- We have combined this program with some of our mass market programs. As a result, select customers are approached with these programs (e.g., the Water Heater Tune Up program).
- We are working with a non profit hi-rise building, to determine feasibility of implementing home tune up for these suites, including better control of baseboard heaters through programmable thermostats.
- We are currently directing two initiatives in this sector: Home Tune-ups and Water Heater Tune-ups.

Results to Date

- A lighting retrofit project at the local Food Path facility has been completed. Enersource provided 100% grant for this lighting retrofit.
- Savings for this project will be over 382,000 kWh per year.
- The program was well received and appreciated by the customers.
- We are in the final stages of launching a home tune up pilot project to this sector.
- We have met with our collections department and have identified 2 agencies (Winter Warmth, Share the Warmth), as channels to deliver this initiative to needy Social Housing clients.
- We are progressing with Social Housing communities within the Region of Peel. To date we have completed 313 tune-ups, besides the 30 done in 2005.
- We have worked with the local food banks, to help identify and help needy residents in lowering their energy costs.

Next Steps

- Finalize program design for low income and social housing house tune up and launch in early 2007.

3.2 Commercial, Industrial and Institutional (> 50 kW)

SMART Meter Commercial Programs

Description
The Ontario Government has established targets for the installation of 800,000 residential smart meters by December 2007 and for all Ontario customers by December 2010. These meters will assist establishing a 'conservation culture' in Ontario. In conjunction with appropriate rate structures, they will encourage customers to conserve energy or shift energy use.

Enersource will conduct a pilot program for commercial SMART meters, to assess the metering, communications, settlement, load control and other technologies that could be used to accommodate the wider application of SMART meters in the future.

The pilot project was launched in 2006, for the investigation of sub-metering opportunities in bulk-metered situations (i.e. condominiums). The principal aim will be to provide end-use customers with information related to their energy consumption habits.

Target users
Commercial, Industrial and Institutional customers (>50 kW).

Benefits
This program supports the Ministry of Energy's commitment to the installation of 800,000 SMART meters across Ontario by 2007. It will provide Enersource with the experience and knowledge needed to efficiently expand the use of SMART meters over the next several years.

In conjunction with appropriate rate structures, the program will encourage customers participating in the pilot program to conserve or shift energy use.

Description of 2006 Activities

SMART Meters – Commercial Pilot

Action

- Identify two multi-residential complexes for conversion from bulk commercial metering to individual smart meters in 2006.
- Convert at least one building.

Results to Date

- A multi-residential all electric complex was converted.
- A total of 201 SMART meters were installed, to service 186 units and various services.
- Billing by individual metering started in July 2006.
- Preliminary results indicate there were savings of approximately 17%.

- A second building was identified, but the Condominium Board eventually declined to participate in the program, due to issues with responsibility of condominium owners for delinquent accounts.

Next Steps

- Continue gathering consumption data for retrofitted building and compare with baseline, to determine actually achieved savings.
- Work with the residents of retrofitted building, to help them reduce their consumption, through education and awareness.

Leveraging Energy Conservation

Description

The CLD is working collectively to develop a program (The powerWISE Business Incentive Program) that will give financial incentives to qualified customers that implement energy conservation projects.

The objective of this program is to leverage energy conservation and load management opportunities within the commercial, industrial and institutional sectors. This program will be offered in addition to existing funding (NRCan, Enbridge) to advance market up-take.

The LDCs are well positioned to introduce such programs to their customer base. Work will be conducted with the existing program providers to maximize leverage opportunities. Promotion will potentially include face-to-face meetings, conferences and seminars.

Within this framework, Enersource has implemented a Business Incentive Program, through which financial incentives are given to qualifying businesses that install energy efficient technologies within their facilities.

Target users

Customers that have an average peak demand of 50kW or more, including schools, large commercial, institutional, industrial, and municipal facilities.

Benefits

Customer awareness and additional incentives will help advance market uptake of audit services, feasibility studies and retrofit opportunities already established within the government program framework. The incentives provided through this program lower the simple payback of an energy efficiency project, to enable customers to move forward with implementation.

Description of 2006 Activities

powerWISE Business Incentive Program

Action

- The program was made available to customers in the Commercial, Industrial and Institutional (>50 kW) sectors.

Results to Date

- 7 projects have been pre-approved for incentives. Incentives were paid to 6 customers (6 projects), for a total of $36,870.
- The original funding for this program has been fully allocated and no more projects could be considered. The budget, however, was increased slightly

(from $225K to $273K). This will allow for a few more projects to be completed through PBIP.

- Based on results to-date, expected annual energy and demand savings are over 619,000 kWh and 138 kW (summer peak).

Next Steps

- Complete additional projects already in cue in 2007, as a result of available budget still outstanding.
- Monitor and evaluate programs, to measure and verify savings as projects are completed.

Commercial Industrial & Institutional (CI&I) Load Control Initiative

Description
Load control is part of our developing Demand Response (DR) initiatives. It aims at developing suitable systems to free up capacity during critical times of severe system demand.
This program uses a Web-based load controller, with a real time communications link, to enable or disable designated customer loads at the discretion of Enersource.
These controls are usually engaged during system peak periods or when required to relieve pressure on the system distribution grid.

Target Users
Larger commercial, industrial and institutional customers.

Benefit
Demand control provides lower costs and increased stability for customers and utilities.

Description of 2006 Activities

CI&I Load Control

Action

- Enersource has developed and launched a demand response program for the control of loads in the commercial and industrial sectors.
- Enersource aggregates all load reduction capacities offered by customers and administers customer participation in IESO and OPA demand response programs.
- There are two categories of customers in our program. The first category (on-call curtailment) of customers will not require the installation of load control equipment. They will reduce load upon receiving notification from Enersource.
- In the second category, load reduction equipment will be required to be supplied and installed by Enersource's contractor.

Results to Date

- An internal process of administering the demand response has been completed.
- Under On-Call Curtailment 2 industrial customers signed our demand response agreement with total capacity of 2,850 kW.
- 4 Load Reduction customers have signed, for 1,556 kW of capacity.
- Total capacity under control at the end of 2006 is about 4.4 MW.
- TRC Benefit-Cost Ratio was calculated at 3.7.
- Annual energy savings are dependent on annual operating hours of hosting facility.

Next Steps

- We will need to enroll the customers who have submitted their application with the IESO and OPA and make this load available to the market this coming summer.
- Enersource will continue to sign up customers in this program.
- EHM will continue to run seminars to educate customers on demand response.
- EHM will continue to install DR enabling end-use technologies on customer sites, until this budget has been exhausted.
- EHM will continue to build the EHM DR Control Room, to allow for the dispatch of these loads, when required by the OPA and IESO.

On-the-Bill Payment Plan *(Previously Named "On-the-Bill Financing")*

Description
On-the-Bill Financing will start with a pilot offering, which will be developed to help remove a significant energy conservation purchase barrier.

This program will allow customers to finance their conservation investment off their balance sheet via an "expense budget" on their hydro bill, instead of having to contend with scarce capital dollars. Financing arrangements will be made with third party investment organizations and payment amounts will be presented on the customer's hydro bill.

Target Users
Larger commercial, industrial and institutional customers.

Benefit
Program will facilitate the adoption of capital intensive energy conservation measures.

Description of 2006 Activities

On-the-Bill Payment Plan

Action

- Advise CI&I customers and a select number of energy conservation consultants of this program through a direct mail marketing initiative. The mailing included specific marketing material and a Pre-Qualification form designed to capture customer and proposed project information (including costs and benefits), for an initial screening.
- Enersource will work with CitiCapital, the financial services provider for this program, on the application forms and other elements of the program.
- Customers will be advised of this program through various marketing initiatives such as commercial customer newsletters and bill messaging.

Results to Date

- This program was officially launched in October 2006.
- At present, we have 5 approved, 1 declined and 1 funded customers.
- Summer peak demand savings are 137 kW.
- Annual energy savings are over 637,000 kWh.
- TRC Benefit-Cost Ratio is over 2.6.

Next Steps

- Continue working with CitiCapital to perfect all elements of the program's process flow (e.g., invoicing and customer billing timing correlation).
- Continue promoting the program, through another mailing and at workshops organized for other CDM programs.
- Consider launching a similar program directed to the residential sector.

3.3 Distribution Loss Reduction

Distribution Loss Reduction

Description
The Distribution Loss Program is a broad network based initiative to drive greater efficiencies within the distribution grid. This program will identify opportunities for system enhancements. Items to be addressed may include, but are not limited to:

Voltage Profile Management - Changing voltage profiles at the distribution station level can result in a peak reduction at the controllable distribution stations. This is in addition to the IESO's voltage reduction program and will not interfere with the effectiveness of that program.

Target users
The results of this program will positively impact all of EHM's customers.

Benefits
Reduced electricity distribution system delivery losses will reduce system demand, relieve network capacity to accommodate growth, and reduce the requirement for new generating capacity in the Province. Costs associated with distribution system delivery losses are recovered through electricity distribution charges. Reductions in these costs will therefore benefit all customers.

Description of 2006 Activities

Voltage Profile Management

Action

- An RFP was issued in October 2005 for the procurement of a conservation voltage reduction system (CVRS).
- Steps were taken to implement a project in 2006 to reduce voltage at Grossbeak MS using an AdaptiVolt CVRS system, which controls the transformer on-load-tap-changer to optimize the voltage profile.

Results to Date

- A contract was awarded for the procurement and installation of a Conservation Voltage Reduction System (CVRS) at Grossbeak MS station.
- AdaptiVolt is the selected CVRS system; it controls the transformer on-load-tap-changer to optimize the voltage profile.
- Factory Acceptance Test on the Adaptivolt System was completed in early July 2006. Because of extreme weather conditions installation was not carried out, to avoid possible service interruptions.
- The EHM Load Centers will not accommodate the Potential Transformers (PT's) that have been sourced.

- A new design of the installation was required.
- Once operational in early 2007, forecasted annual energy savings is expected to be around 1,553,000 kWh.
- Forecasted peak demand reduction at the station is expected to be 300 kW.

Next Steps

- Proceed with project implementation, by solving technical and equipment procurement issues.
- Continue working with vendors to alternatively source smaller PT's that can fit into the existing switch gears.
- The new estimated time of completion for the project is expected to be the first quarter of 2007.

3.4 Distributed Energy

Load Displacement

Description
Distributed generation behind the customer's meter provides an excellent opportunity to displace load from the local distribution system's grid in a very effective manner. Load displacement technology, such as combined heat and power systems, provides increased power efficiency and thermal systems. Combined with an existing or new district heating distribution system this technology contributes to the development of sustainable energy networks within Ontario's communities.

Other technologies such as micro-turbines, wind, biomass fuels and solar provide additional options to meet the customer's needs. This initiative will facilitate the development and implementation of these opportunities. Financial incentives will be considered based on the project's viability.

Development of educational and technology programs in conjunction with local colleges and universities may be considered. Small pilots or demonstration projects to promote alternative and renewable energy sources may also be considered.

Target users
Commercial, industrial, and residential, schools, colleges and universities.

Benefits
Benefits include additional capacity within the grid. Cleaner technologies result in reductions in green house gas (GHG) emissions. Other benefits include improved system reliability, reduced harmonics, backup power possibilities, education and skills development.

Description of 2006 Activities

Load Displacement

Action

- Fund two demonstration projects, matching funding on a dollar per dollar basis up to a maximum of $150,000 for each project.
- Working cooperatively with the City of Mississauga and the Region of Peel to identify suitable candidate demonstration projects, like photovoltaic roof panels.

Results to Date

- Consideration was given to the Region of Peel and the City of Mississauga who have both proposed renewable energy projects to Enersource.

- One project will demonstrate photovoltaic roof panels at a major sports centre within the City.

Next Steps

- Continue to discuss with the Region and the City.
- Finalize TRC forecast, once projects are set and costs finalized.
- Continue to support the customers during implementation stage.

Stand-by Generators

Description
This program provides for the use of customers' existing standby generators when required and/or economical. Environmentally friendly generators will be the primary focus of this initiative however all generators may be considered if needed during an emergency.

Enersource will act as an aggregator of loads to be made available for the market place on a moment's notice, when economical to do so or during critical peak conditions.

Target Users
Commercial and industrial customers with sufficiently sized standby generators.

Benefits
Reduction of customer and system peak demand and energy costs. This additional supply may be able to bid into the Ontario energy market in the future.

Description of 2006 Activities

Standby Generators

Action

- The CLD engaged a consultant to study technical, financial and operational issues of a DR program dispatching stand-by generators.
- Generators will be controlled from a single dispatch point at Enersource.
- Aggregate loads, to make them available during times of supply constraints.

Results to Date

- Started the design and development of a Demand Response Control Room, which will become the single dispatch point for demand management.
- A 1.25 MW standby natural gas generator was installed and commissioned at Enersource.
- Enersource has registered this generator with the IESO under the Emergency Load Reduction Program.
- Negotiations were conducted with a number of prospective customers.
- A major food retailer has agreed to use its natural gas stand-by generators at three locations in Mississauga to participate in the Enersource Demand Response Program. Enersource will pay for the required rewiring of loads and to transfer the load to the generators during demand response events.
- An estimated total of 200 kW of demand response capacity can be achieved through the food retailer projects. Two locations have been completed with estimated demand reduction capacity of 70 kW.
- We have received applications for our demand response program from the GTAA airport (1,700 kW) and from an industrial customer (1,500 kW).

- Currently, we have 2,770 kW dispatchable in summer and 2,670 kW in winter.
- TRC results show a 1.5 Benefit-Cost ratio.

Next Steps

- Enersource will continue to obtain signed agreements from customers, regarding demand response.
- Enersource will apply to OPA and IESO to enroll the various generators into the market.

3.5 Overall Program Support

Description
Several supporting initiatives were considered such as an annual Key Account Conference, Home Show participation, an energy conservation website, customer newsletters, staff training and media support activities etc.

Enersource launched the powerWISE Brand and powerWISE Website, already described in Section 3, and the Special Events Van Team. The latter was created for the purpose of educating the public about energy conservation and ways for consumers to reduce their electricity bills. The team is constantly on the road with the natural gas fuelled van, interacting with the public. The van is promotionally wrapped in energy saving tips and graphics.

The team represents Enersource Mississauga at various community venues. As part of the energy efficient message, our students hand out various promotional items including showerheads, compact fluorescent lamps, LED light sets and brochures.

This program also offers general support for all programs, with various marketing, consulting, management and general support of all CDM programs.

Target Users
All customer classes including the Low Income and Social Housing customers.

Benefits
Supports existing programs and drives energy conservation awareness that will facilitate the culture change in Ontario.

Description of 2006 Activities

Special Events Van

Action

- Utilize the special events team to talk to customers about energy conservation, by participating in community events like Carassauga, the Bread and Honey Festival, the Islamic BBQ and similar.
- Distribute CFL bulbs, to foster the energy saving message.
- Distribute LED Christmas lights for the festive season.

Results

- 3rd Traunche funding was exhausted by the end of April 2006.
- Under 3rd Traunche, a total of 10,240 CFLs and thousands of educational and promotional items were distributed, to contribute spreading the energy efficiency and conservation message among the residents of Mississauga.
- To-date, they have participated at 50 events – 10 of which in 2006 - and made several 'drop-offs' at libraries and other venues.

- 3rd Traunche annual energy savings from distributed CFLs were calculated at 244,250 kWh.
- For TRC purposes, these results were included under the Co-Branded Mass Market Program, which served as the source for funding this initiative.

Next Steps

- 3rd Traunche funding for this program was exhausted and the program terminated.
- This program was submitted to the OEB for 2nd Generation Supplemental Funding.

Regulatory Reporting

Action

- A regulatory compliance and reporting function was created in order to validate the project approval process, track projects and monitor and verify results.

Results to Date

- Program control and reporting processes were developed.
- All program benefits were validated through TRC cost test screening, in compliance with OEB TRC Guide.

Next Steps

- Continue with regulatory compliance and reporting function.

General Program Support

Action

- To offer general management and support of all programs as required.
- General overall marketing and consulting help to establish conservation culture.

Results to Date

- All programs benefited from the general support and management function.

Next Steps

- EHM will continue to offer the general support and management required to implement the programs specified in this report.

4. Lessons Learned

Enersource has identified “lessons learned’ in the following aspects of CDM program development and implementation:

- Customer decision making factors and time required for them to make a decision
- Customer behaviour
- Opportunities and relevant constraints
- Budgeting and other aspects of financial management.

Enersource found that consumers’ decisions were influenced by a number of factors. All customer groups want a tangible demonstration of ‘what’s in it for them’.

- For residential customers: a simple demonstration of the net economic benefit of participating in a program or imparting the customer with a sense of responsibility for achieving a solution to a greater problem.
- For small commercial customers: a simple demonstration of a short payback period arising from a program that does not conflict with their business.
- For large commercial customers: a demonstration of a reasonably short payback period that does not disrupt their core business.
- For large use customers: a demonstration of a direct economic benefit and, perhaps, an accompanying qualitative benefit (e.g., increased reliability through fewer interruptions).

Enersource has also found that for the vast majority of its customers electricity is not considered a significant part of their operating costs. Therefore, projects need to make economic sense for their participation.

Another ‘lesson learned’ concerns the risks associated with differing levels and degrees of customer involvement. CDM programs that rely on the utility remotely controlling loads achieve more consistent results than do programs that rely on customers to respond to price signals or public appeals.

In the future, Enersource will give greater priority to programs designed to reduce both base load and peak load consumption. Such programs are capable of delivering energy reduction and demand reduction benefits, year round not necessarily in a season. From a distribution system operation perspective, reductions in base load and peak load provide enhanced operational flexibility and may relieve operating constraints. From a broader province wide system perspective, reducing base load and peak load gives the province more operating flexibility when required.

Enersource continues to believe that collaborative programs are highly desirable given that they rely on a consistent message and allow many parties to apply successful programs, leveraging each other’s knowledge. However, EHM was surprised at the complexity of designing and administering joint programs – from the initial negotiation of enforceable legal instruments to the after the fact analysis of results.

Enersource appreciates the insights conveyed by the OEB's TRC Guide – in particular, the value it places on summer peak demand reductions. A tangible 'lesson learned' is to identify, evaluate and promote summer peak reduction programs as a priority. A direct consequence of application of the TRC Guide is an appreciation that the CFL Lighting Program is not a priority program, based on summer peak system benefits, but rather that its true value is in its ability to assist in developing a conservation culture and serving as a vehicle that allows the distributor to convey its conservation message to its customers.

Lastly, Enersource has appreciated that CDM programs require a greater level of operational expenditures than capital expenditures, especially in the initial design stages. The costs to identify, develop and then deliver successful CDM programs are expenses of the period for financial reporting purposes. This fact will be applied to appropriately resource future programs and initiatives.

4.1 Comments on Program Success

Overall we feel that the first two years of our program was successful. Full benefits from all our CDM Programs have started to be realized in 2006 and will continue through 2007 and beyond.

The following Table summarizes results:

	Successful? High (H) Medium (M) Low (L)	Continue?	Notes
Residential and Commercial <50kW			
Co-Branded Mass Market	Yes – H	Yes	Significant interest in mass market for techniques for saving energy.
SMART Meter Pilot Programs Residential	Yes – H	Yes	As part of Provincial directive.
Residential Load Control Initiative	Too early to tell	Yes	Residential Load Control was successful in 2006 and will be offered province-wide in 2007 by OPA.
SMART Avenues Program (Previously called Electric Avenue)	Too early to tell	Too early to tell	This program suffered from technology procurement problems.
Social Housing Program	Yes	Yes	This will be integrated into our other programs (i.e. Mass Market and Events Van).
Commercial Institutional and Industrial >50kW			
SMART Meter Program Commercial	Yes - H	Yes	We anticipate good results from our pilot.
Leveraging Energy Conservation or Load Management	Yes - H	Yes	Significant interest in CI&I Sector.
CI&I Load Control	Yes - H	Yes	Significant potential for on-peak load reductions.
Off-the-Bill Payment Plan	Yes - H	Yes	This is a great program for all LDC to implement at a low cost. Will be made into a Program-In-A-Box.
Distribution Loss Reduction			

Voltage Profile Management	Yes - H	Yes	
Distributed Generation			
Load Displacement	Too early to tell	Too early to tell	Significant potential for on-peak load reductions.
Standby Generators	Yes - H	Yes	
Overall Program Support			
Special Events Van	Yes - H	Yes	These activities support all the program areas and assist with marketing, promotion and governance. They also help the government in promoting a conservation culture.
Regulatory Reporting	Yes - H	Yes	

5. Conclusions

The first two years of Conservation and Demand Management were successful for Enersource, although CDM Program development and implementation remains a complex and time-consuming process, with procurement and legal requirements often being more costly and time consuming than originally expected.

We were able to maximize our results, through collaborative efforts with the Coalition of Large Distributors, which allowed us to launch many initiatives in a similar manner, providing for more consistent messaging in our promotional campaigns, while leveraging individual distributors' investments. By sharing knowledge and market experience, we were able to optimize our individual CDM plans as well.

Building on what started in 2005, 2006 was a year of further program development, implementation and continued learning for Enersource. As the year progressed, our CDM program developed into a more comprehensive plan, as the details of each program became clearer with increasing implementation of initiatives or replication of the same.

Approximately $6.0M or 73% of the available 3rd Traunche CDM funds were committed to projects active in 2006. Proposed projects were reviewed on the basis of energy conservation and demand management potential and screened using the latest OEB TRC Guide.

Many CDM programs were launched or fully implemented in 2006 and – while our CDM Program proved to be cost-effective overall - some initiatives suffered from high initial set-up costs, reducing the economics for the year, to a Benefit-Cost ratio of 1.35. Results for 2007 will be much more significant because programs launched throughout 2006 will have had time to operate for a number of months and generate the expected results. At that time it will become more meaningful to compare year-to-year cost effectiveness metrics, like $/kWh and $/kW. They now stand at $ 0.045 and $ 607.69 respectively.

In 2006 Enersource had some very successful programs. The Water Heater Tune-up and the On-the-Bill Payment Plan programs were turned into Program-in-a-Box concepts and distributed to other LDCs and to the OPA. powerWISE Business Incentive Program soon used up original funds and required some funding re-allotment. Last years' CLD-developed powerWISE coupon redemption retailer program was adopted by the Ontario Power Authority and re-launched in 2006 as the "Every Kilowatt Counts" Spring and Fall retail campaigns. The campaigns created enormous awareness and delivered over 12,500,000 kWh in energy savings in Mississauga or enough electricity to power almost 1,400 homes annually.

Since its launch, Enersource CDM Program generated annual energy savings for over 21,600,000 kWh or enough capacity to supply 2,400 homes annually.

The constraints facing the Provincial electricity distribution system are well known and have created a heightened sense of urgency for all users to contribute to a better

management of our electricity demand. Enersource Hydro is committed to helping promote the shift to a culture of conservation in the Province and will work cooperatively as necessary with the Energy Board, the IESO, the Ontario Power Authority and other members of the Coalition of Large Distributors to make this happen.

Enersource's role in delivering energy efficiency programs is well established and our customers are recognizing the value of conserving electricity, with our CDM Programs playing an essential role in promoting and fostering a "cultural change" with respect to energy utilization in Mississauga.

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.

	[5] Cumulative Totals Life-to-date	Total for 2006	Residential and Small Comm <50	Comm Ind Inst >50 kW	Dist Loss Reduction	Dist Energy	Overall Program Support		[4] Smart Meters	Other #1	Other #2
Net TRC value ($):	$ 10,050,662	**$ 2,034,163**	**$ (610,018)**	**$ 3,059,508**	**$ (615,507)**	**$ 753,408**	**$ (553,228)**	**$ -**		**$ -**	**$ -**
Benefit to cost ratio:	1.20	1.35	0.61	2.96	0.00	1.49	0.00	0.00		0.00	0.00
Number of participants or units delivered:	92,826	62,100	61,878	217	1	3	1				
Lifecycle (kWh) Savings:	147,565,325	111,756,751	95,944,713	15,812,039	0	0	0	0		0	0
Report Year Total kWh saved (kWh):	21,641,091	16,787,030	15,070,988	1,716,042	0	0	0	0		0	0
Total peak demand saved (kW):	8,343	8,190	709	4,711	0	2,770	0	0		0	0
Total kWh saved as a percentage of total kWh delivered (%):	0.15%	0.21%	0.19%	0.02%							
Peak kW saved as a percentage of LDC peak kW load (%):		0.51%	0.04%	0.29%	0.00%	0.17%					
[1] *Report Year Gross C&DM expenditures ($):*	$ 6,062,859	$ 4,977,013	$ 854,880	$ 1,405,563	$ 615,507	$ 1,547,835	$ 553,228	$ -	$ 116,511	$ -	$ -
[2] *Expenditures per KWh saved ($/kWh):*	$ 0.04	$ 0.04	$ 0.01	$ 0.09	$ -	$ -	$ -	$ -		$ -	$ -
[3] *Expenditures per KW saved ($/kW):*	$ 726.72	$ 607.69	$ 1,205.75	$ 298.36	$ -	$ 558.79	$ -	$ -		$ -	$ -

Utility discount rate (%):	6.07

[1] Expenditures are reported on accrual 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. Only actual expenditures for the year need to be reported.
[5] Includes total for the reporting year, plus prior year, if any (for example, 2006 CDM Annual report for third tranche will include 2005 and 2004 numbers, if any.

Appendix B - Discussion of the Program

A. **Name of the Program:** Co-Branded Mass Market Program

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

powerWise™ is the flagship conservation program for Enersource Hydro Mississauga and five of Ontario's other major Local Electricity Distributors. It is a multifaceted approach to energy conservation in all sectors, designed to help foster a "conservation culture" in Ontario. Through development of a significant cooperative effort among six of the largest municipal LDC's, this program is becoming synonymous with initiatives such as Compact Fluorescent Lighting (CFL) change-out programs, LED Holiday Light exchanges, energy audits, hot water heater blanket wraps, school based education and a host of other programs aimed at providing customers with the tools and education needed to reduce their energy usage. Access to online services such as energy consumption calculators, an energy expert, and personalized energy audit services are components of this program.

Measure(s):

	Water Heater Tune-up	**LED Light Exchange**	**Special Events Van**
Base case technology:	Do Nothing	Incandescent String	Do Nothing
Efficient technology:	Efficient Showerhead, Faucet Aerator, Faucet Washer, Tank Insulating Wrap and Compact Fluorescent Bulbs.	LED Light String	Compact Fluorescent Bulbs.
Number of participants or units delivered for reporting year:	421	0	920
Measure life (years):	12,12,6,6 and 4	30	4
Number of Participants or units delivered life to date	1621	11000	8920

	Library Loan Program	**Retailer Program**	**Refrigerator Retirement Progr.**
Base case technology:	Incandescent Bulb	Incandescent Bulb, Do Nothing	Average Existing Stock
Efficient technology:	Compact Fluorescent	Compact fluorescent bulb, LED Christmas Lights, Programmable Thermostat, Indoor Timer, Outdoor Timer,	Retirement and Recycling
Number of participants or units delivered for reporting year:	1,320	56,676	1117
Measure life (years):	4	4,30,18,20,20,20 and 25	6
Number of Participants or units delivered life to date	2160	65262	1117

B. **TRC Results:**

	Reporting Year	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	*$ 347,592.12*	2492364
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 98,056.00	$ 832,297.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 98,056.00	$ 832,297.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	$ 3.54	2.99

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	472	624.81
	Winter	1890	1890

	lifecycle	*in year*	*Cumulative Lifecycle*	Cumulative Annual Savings
Energy saved (kWh):	92,249,585	14,646,944	127,603,037	19,439,741
Other resources saved :				
Natural Gas (m3):				
Water (m3):	131,654	10,971	671,380	

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 savings (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:	$ 98,056.00	$ 832,297.00
	Incentive:		
	Total:	$ 98,056.00	$ 832,297.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. **Assumptions & Comments:**

powerWISE Brand
- powerWISE is being used extensively by the CLD, to co-brand CDM programs.
- Interest in the powerWISE brand was expressed by the Ministry of Energy, the OPA, Hydro One and other distribution utilities.
- The powerWISE brand has also been translated to Eco-Consumer for French language purposes.
- The powerWISE brand has been used by the Ministry of Energy in their 2006 advertising campaign.

Next Steps
- Extend the powerWISE brand to the Ministry of Energy, the OPA, Hydro One and other LDCs.
- Continue to develop and promote the powerWISE brand and website in conjunction with the Ministry of Energy and the OPA.

powerWISE Website
- powerWISE website has received over 167,000 visitors since its launch.

Next Steps
- Continue to develop and promote www.powerwise.ca in conjunction with the Ministry of Energy, as a source of energy conservation information.
- Continue to improve and enhance the website with new materials and applications.

Water Heater Tune-Up
- Over 1,620 Tune-Ups were completed to-date.

Next Steps
- This highly successful program will continue in 2007 under Supplemental Funding.

LED Holiday Light Exchange
- Enersource distributed approximately 11,000 LED light sets.
- 3rd Tranche funding was exhausted and no LEDs were distributed in 2006 under this funding mechanism.

Next Steps
- This program was submitted to the OEB as a 2nd generation supplemental CDM plan and continued in 2006 under that funding mecha

Special Events Van
- The Event Team attended 56 events in 2006, 10 of which under 3rd Tranche funding.
- 10,240 CFLs were distributed, including 1,320 CFLs distributed at Mississauga libraries, in 2006 under 3rd Tranche.

Next Steps
- Continue the program for 2007, under 2nd Generation Supplemental Funding.

Library Loan Program

■ Enersource customers borrowed about 1,000 “Watt Reader” devices in 2006.

■ 1,320 CFLs were distributed with the devices in 2006.

Next Steps

■ **Continue the program for 2006.OPA Every Kilowatt Counts Retailer Coupon Program**

■ The Conservation Bureau of the OPA developed major Spring and Fall mass-market retail campaigns, to advance the penetration of energy efficient devices into the marketplace through point of purchase redeemable coupons.

■ Coupon and information booklets were distributed through the mail to all Ontario households for each campaign.

■ All Enersource Hydro customers received the coupon booklets both in spring and fall.

■ About 57,000 coupons were redeemed locally

Next Steps

■ Similar coupons distributions are planned for 2007.

■ The Conservation Bureau will continue to operate this program.

OPA Refrigerator Retirement Program

■ Enersource Hydro Mississauga is the delivery partner for the OPA Refrigerator Retirement program.

■ The Refrigerator Retirement Program provides pick-up and recycling (a $110 value).

■ 1,117 old refrigerators were removed and properly recycled.

Next Steps

■ The OPA will be reviewing the results after the pilots and determine whether the program rolls out across the province and what incentiv

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** SMART Meter Residential

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

Pilot programs for residential SMART meters were implemented to assess the metering, communications, settlement, load control and other technologies that could be used to accommodate the wider application of SMART meters in the future. Further, sub-metering opportunities for the purpose of customer information in bulk-metered situations (i.e. condominiums) may be considered.
This program supports the Minister of Energy's commitment to the installation of 800,000 SMART meters across Ontario by 2007. It will provide Enersource with the experience and knowledge needed to efficiently expand the use of SMART meters over the next several years.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do nothing		
Efficient technology:	SMART Meters		
Number of participants or units delivered for reporting year:	0		
Measure life (years):	na		
Number of Participants or units delivered life to date	550		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*		
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 116,511.00	$ 243,563.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 116,511.00	$ 243,563.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	$ -	0.00

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	na	na
	Winter	na	na

	lifecycle	*in year*	*Cumulative Lifecycle*	Cumulative Annual Savings
Energy saved (kWh):	*na*	na	na	na
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 savings (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:*	$ 22,450.00	$ 144,862.00
	Incremental O&M:	$ 94,061.00	$ 98,701.00
	Incentive:		
	Total:	$ 116,511.00	$ 243,563.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. Assumptions & Comments:

■ A conservation forum and information session on the launch of a 550 home Smart Meter Pilot Program in a small neighborhood in Mississauga was held in July.
■ The purpose of the pilot was to test the Elster MeshNetwork SMART metering technology, with respect to meter functionality and communications performance, to determine if it would be a viable option for full deployment at Enersource.
■ The project was completed successfully in 2005.
■ 555 SMART meters were installed by the end of 2005.
■ Energy and peak load savings or shifting will come from behavioural changes of customers, once they learn to correlate time of usage rates with their consumption patterns.
Next Steps
■ Combine conservation products with the Smart Meter, to leverage the smart meter potential as a behavioural changing device, with respect to energy consumption habits.
■ Energy and summer peak load savings or shifting will potentially come from behavioral changes of customers, once they learn to correlate time of usage rates - when available - with their consumption patterns and associated costs.
■ This program will stop as a smart meter program as it has evolved beyond the original scope of just installing smart meters.
■ As such, this program is now at the core of the SMART Avenues Program described next.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** SMART Avenues – A Community Pilot (Previously named "Electric Avenue")

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

A pilot neighborhood of selected homes and/or small businesses may be selected to become a "showcase" community to demonstrate the overall effectiveness of smart energy conservation initiatives including energy audits, retrofits, load control devices and SMART meters.

This pilot may also include the design and construction of an energy efficient home that will showcase all the latest technologies in

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do Nothing.		
Efficient technology:	Smart Meters.		
Number of participants or units delivered for reporting year:	550		
Measure life (years):			
Number of Participants or units delivered life to date	550		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	*$ 23,456.00*	23456
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 215,215.00	$ 218,407.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 215,215.00	$ 218,407.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	$ 0.11	0.11

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	35	35
	Winter		

	lifecycle	*in year*	*Cumulative Lifecycle*	Cumulative Annual Savings
Energy saved (kWh):	*94710*	9471	94710	9471
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 savings (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:*	$ 93,290.00	$ 93,290.00
	Incremental O&M:	$ 121,925.00	$ 125,117.00
	Incentive:		
	Total:	$ 215,215.00	$ 218,407.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. Assumptions & Comments:

■ This program is part of the Smart Meter program.
■ As part of the Smart Meter program we are testing various technologies within a home to demonstrate what would be required to demonstrate savings in a home which receives a smart meter.
■ Customers that receive a Smart Meter should eventually receive Time-Of-Use rates. We want to demonstrate the potential savings that may result in adopting these rates along with the technologies implemented.
■ The neighborhood has been selected and smart meters have been installed.
■ The customers have been well advised of our plans.
■ The lack of TOU Rates and problems with the supply of essential technologies or the poor take up on certain initiatives severely limited the scope of the program, which resulted in poor TRC results.

Next Steps

■ Re-market the Peak Saver/Home Tune-up program in early 2007, in order to meet the goal of 50 installations within Smart Avenues.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

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

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

Load control uses a real time communications link to enable or disable customer loads at the discretion of the utility. These controls are usually engaged during system peak periods or when required to relieve pressure on the system grid and may include such "dispatchable" loads as electric hot water tanks, pool pumps, lighting, air conditioners, etc. For this demonstration project the primary focus will be controlling central air conditioning units.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do nothing		
Efficient technology:	LDC controlled programmable thermostats.		
Number of participants or units delivered for reporting year:	202		
Measure life (years):	18		
Number of Participants or units delivered life to date	202		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	*$ 352,446.00*	352446
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 1,208,042.00	$ 1,214,042.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 1,208,042.00	$ 1,214,042.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	$ 0.29	0.29

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	202	202
	Winter	na	

	lifecycle	*in year*	*Cumulative Lifecycle*	Cumulative Annual Savings
Energy saved (kWh):	*578124*	32118	578124	32118
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 savings (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:*	$ 284,251.00	$ 284,251.00
	Incremental O&M:	$ 101,740.00	$ 107,740.00
	Incentive:		
	Total:	$ 385,991.00	$ 391,991.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:	822051	$ 822,051.00
	Total:	822051	$ 822,051.00

E. Assumptions & Comments:

■ Mississauga Hydro is participating with other CLD members in the design and implementation of a Load Control program targeting residential and small commercial customers' central air conditioners with outside condensers.
■ In addition to central air conditioners, customers with electric water heaters and/or pool pumps will be encouraged to have controls installed on those devices.
■ We are planning 1,600 residential and 200 small commercial installations. At that level, TRC Benefit-Cost ratio is expected to be 2.2.

Next Steps
■ An RFP for control equipment was issued and awarded in 2006.
■ Continue the recruitment of host sites, to the planned 1,600 residential and 200 small commercial.
■ Install 30 pool pump load control relays (LCR).
■ Full installation and deployment is expected by Q3 of 2007.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.
[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** Social Housing Program

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

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Incandescent bulbs		
Efficient technology:	CFL bulbs		
Number of participants or units delivered for reporting year:	1222		
Measure life (years):	4		
Number of Participants or units delivered life to date	1222		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	*$ 226,908.00*	257908
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 39,107.00	$ 88,569.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 39,107.00	$ 88,569.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	$ 5.80	2.91

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):	*3022294*	382455	3477415	443719
Other resources saved :				
Natural Gas (m3):				
Water (m3):	102118	8510		112943

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 savings (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:	$ 39,107.00	$ 88,569.00
	Incentive:		
	Total:	$ 39,107.00	$ 88,569.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. Assumptions & Comments:

■ We have combined this program with some of our mass market programs. As a result, a selected list of customers was approached with similar programs such as the Water Heater Tune Up program and the LED Seasonal Light program.
■ We are working with a non profit 132 suites hi-rise to determine feasibility of implementing home tune up for these suites, including better control of baseboard heaters through programmable thermostats.
■ A lighting retrofit project at the local Food Path facility has been completed. Enersource will provide 100% grant for this lighting retrofit, estimated to cost $14,000. The program was well received and appreciated by the customers.
■ We have identified 2 agencies (Winter Warmth, Share the Warmth), as channels to deliver this initiative to needy Social Housing clients. ■ We are progressing with Social Housing communities within the Region of Peel. To date we have completed 313 tune-ups, besides the 30 done in 2005.

Next Steps
■ Finalize program design for low income and social housing house tune up and launch in early 2007.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** SMART Meter Commercial Program

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

Enersource is planning a pilot program for commercial SMART meters, to assess the metering, communications, settlement, load control and other technologies that could be used to accommodate the wider application of SMART meters in the future.

The pilot project will be launched in 2006, for the investigation of sub-metering opportunities in bulk-metered situations (i.e. condominiums). The principal aim will be to provide end-use customers with information related to their energy consumption habits.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do nothing		
Efficient technology:	SMART Meters		
Number of participants or units delivered for reporting year:	201		
Measure life (years):	15		
Number of Participants or units delivered life to date	201		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	*$ 370,463.00*	370463
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 197,200.00	$ 237,683.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 197,200.00	$ 237,683.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	$ 1.88	1.56

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	30	30
	Winter	80	

	lifecycle	*in year*	*Cumulative Lifecycle*	Cumulative Annual Savings
Energy saved (kWh):	6892979	459532	6892979	459532
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 savings (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:*	$ 178,959.00	$ 178,959.00
	Incremental O&M:	$ 18,241.00	$ 58,724.00
	Incentive:		
	Total:	$ 197,200.00	$ 237,683.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. Assumptions & Comments:

■ A multi-residential complex with 186 units was identified for retrofitting. Retrofit was completed in July 2006.
■ Designated pilot building will shift from a single commercial account to multiple residential accounts, dependent on the number of its residential units.
■ A total of 201 Quadlogic SMART meters were installed, to service 186 units and various services.
■ Individual metering started in July 2006 and preliminary results - compared to the average of the previous 3 years - show savings of 17%.
■ A second building was identified, but the Condominium Board eventually declined to participate in the program.

Next Steps

■ Establish a baseline consumption for retrofitted building and compare with current data, to determine actually achieved savings.
■ An alternative building will need to be sourced.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** Business Incentive Program (previously named Leveraging Energy Conservation)

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

Existing energy conservation and/or load management programs such as NRCan's Energy Innovators initiative, Enbridge initiatives etc. will be promoted and incentives may be provided to advance market uptake of these programs and implementation of the recommendations. The LDC's are well positioned to introduce such programs to their customer base. Work will be conducted with the existing program providers to maximize leverage opportunities. Promotion will potentially include face-to-face meetings, conferences and seminars.
Within this framework, Enersource has implemented a Business Incentive Program, through which financial incentives are given to qualifying businesses that install energy efficient technologies within their facilities.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do nothing		
Efficient technology:	LED exit signs, high efficient		
Number of participants or units delivered for reporting year:	6		
Measure life (years):	6,8,15,12,13,6,5		
Number of Participants or units delivered life to date	6		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	*$ 361,512.00*	361512
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 80,965.00	$ 165,471.00
Incremental Measure Costs (Equipment Costs)	$ 195,044.00	$ 195,044.00
Total TRC costs:	$ 276,009.00	$ 360,515.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	$ 1.31	1.00

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	138	138
	Winter		

	lifecycle	*in year*	*Cumulative Lifecycle*	Cumulative Annual Savings
Energy saved (kWh):	*5732475*	619193	5732475	619193
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 savings (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:*	$ -	$ 41,634.00
	Incremental O&M:	$ 80,965.00	$ 123,837.00
	Incentive:	$ 36,870.00	$ 36,870.00
	Total:	$ 117,835.00	$ 202,341.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. Assumptions & Comments:

- The program was made available to customers in late 2005.
- Applications under the program consisted mainly of lighting upgrades.
- 7 projects have been pre-approved for incentives. Incentives were paid to 6 customers (6 projects), for a total of $36,870.
- Other applications were still under evaluation.
- Based on results to-date, expected annual energy and demand savings are over 619,000 kWh and 138 kW (summer peak).

Next Steps

- Accept a few more applications in 2007 as a result of a minor budget increase.
- Monitor and evaluate programs, to measure and verify savings as projects are completed.
- We will plan to rate-base this program in the 2008 rate application.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** Commercial Industrial & Institutional (CI&I) Load Control Initiative

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

Load control is part of our developing Demand Response (DR) initiatives. It aims at developing suitable systems to free up capacity during critical times of severe system demand.
This program uses a Web-based load controller, with a real time communications link, to enable or disable designated customer loads at the discretion of Enersource.
These controls are usually engaged during system peak periods or when required to relieve pressure on the system distribution grid.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do nothing		
Efficient technology:	Lighting Load Controllers.		
Number of participants or units delivered for reporting year:	6		
Measure life (years):			
Number of Participants or units delivered life to date	6		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	*$ 3,660,000.00*	3660000
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 1,003,000.00	$ 1,003,000.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 1,003,000.00	$ 1,003,000.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	$ 3.65	3.65

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	4406	4406
	Winter	4406	

	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 savings (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:*		$ 203,239.00
	Incremental O&M:	$ 149,029.00	$ 149,029.00
	Incentive:		
	Total:	$ 149,029.00	$ 352,268.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:	853,971.00	$ 853,971.00
	Total:	853971	$ 853,971.00

E. Assumptions & Comments:

■ Enersource has developed and launched a demand response program.
■ Enersource will act as an aggregator of all load reduction capacities offered by customers and will fully administer customer participation in the IESO and OPA's demand response programs.
■ There are two categories of customers in our program. The first category (on-call curtailment) of customers will not require the installation of load control equipment. They will reduce load upon receiving notification from Enersource.
■ In the second category, load reduction equipment will be required to be supplied and installed by Enersource's contractor.
■ An internal process of administering the demand response has been completed.
■ Under on-call curtailment we have signed up 2,850 kW of demand response capacity.
■ In the second category, we have selected ECO Power, RTP, Trackflow and Electric City for acquiring customers for demand response and providing load control equipments.
■ The total estimated demand response capacity under this category is 1,556kW.
■ Enersource have terminated the contract with Electric City due to poor performance.
■ TRC Benefit-Cost Ratio was calculated at 3.7.
■ Annual energy savings are dependent on annual operating hours of hosting facility.

Next Steps
■ Enroll curtailable loads in IESO-OPA demand response programs.
■ We also need to implement an internal process of demand response.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** On-the-Bill Payment Plan Program *(previously named On-the-Bill Financing)*

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

On-the-Bill Financing will start with a pilot offering, which will be developed to help remove a significant energy conservation purchase barrier.

This program will allow customers to finance their conservation investment off their balance sheet via an "expense budget" on their hydro bill, instead of having to contend with scarce capital dollars.

Financing arrangements will be made with third party investment organizations and payment amounts will be presented on the customer's hydro bill.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	T12 w/magnetic ballast		
Efficient technology:	T8 w/electronic ballast		
Number of participants or units delivered for reporting year:	5		
Measure life (years):	5		
Number of Participants or units delivered life to date	5		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	*$ 231,270.00*	231270
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 87,528.00	$ 87,603.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 87,528.00	$ 87,603.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	$ 2.64	2.64

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	137	137
	Winter		

	lifecycle	*in year*	*Cumulative Lifecycle*	Cumulative Annual Savings
Energy saved (kWh):	*3186585*	637317	3186585	637317
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 savings (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:	$ 87,528.00	$ 87,603.00
	Incentive:		
	Total:	$ 87,528.00	$ 87,603.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. Assumptions & Comments:

■ We advised Citi customers and a select number of energy conservation consultants of this program through a direct mail marketing initiative. The mailing included specific marketing material and a Pre-Qualification form designed to capture customer and proposed project information (including costs and benefits), for an initial screening.
■ At present, we have 5 approved, 1 declined and 1 funded customers.
■ Enersource will work with the Financial Services Company on the application forms and other elements of this program.
■ Customers will be advised of this program through various marketing initiatives such as commercial customer newsletters and bill messaging.
■ The program has so far resulted in annual energy savings of over 637,000 kWh and summer peak demand savings are 137 kW.
■ TRC Benefit-Cost Ratio is over 2.6. Forthcoming projects will show improved TRC results, because of the limited on-going costs.
■ Prepare a Program-In-A-Box for this program so that other utilities can offer the same type of program to their customers.

Next Steps

■ Continue working with CitiCapital to perfect all elements of the program's process flow.
■ Continue promoting the program, through another mailing and at workshops organized for other CDM programs. Forthcoming projects
■ Consider launching a similar program directed to the residential sector.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** Distribution Loss Reduction

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

The Distribution Loss Program is a broad network based initiative to drive greater efficiencies within the distribution grid. This program will identify opportunities for system enhancements. Next steps will be to complete the engineering analysis and feasibility studies. Projects will be prioritized and selected based on the most attractive investment to results ratio. Items to be addressed may include, but are not limited to:

Voltage Profile Management - Changing voltage profiles at the distribution station level can result in a peak reduction at the controllable distribution stations. This is in addition to the IESO's voltage reduction program and will not interfere with the effectiveness of that

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do nothing.		
Efficient technology:	Adaptivolt system.		
Number of participants or units delivered for reporting year:	1		
Measure life (years):	15		
Number of Participants or units delivered life to date	1		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*		
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 615,507.00	$ 617,696.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 615,507.00	$ 617,696.00
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*			
	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 savings (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:*	$ 599,223.00	$ 601,412.00
	Incremental O&M:	$ 16,284.00	$ 16,284.00
	Incentive:		
	Total:	$ 615,507.00	$ 617,696.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. Assumptions & Comments:

■ An RFP was issued in October 2005 for the procurement of a conservation voltage reduction system (CVRS).
■ Steps were taken to implement a project in 2006 to reduce voltage at Grossbeak MS using an AdaptiVolt CVRS system, which controls the transformer on-load-tap-changer to optimize the voltage profile.
■ AdaptiVolt is the selected CVRS system; it controls the transformer on-load-tap-changer to optimize the voltage profile.
■ Factory Acceptance Test was completed on July 5th 2006 on the Adaptivolt System. Product was received in July, but because of extreme weather conditions installation was not carried out, to avoid possible service interruptions.
■ The EHM Load Centers will not accommodate the Potential Transformers (PT's) that have been sourced.
■ A new design of the installation was required.
■ Once operational, forecasted annual energy savings is expected to be around 1,553,000 kWh.
■ Forecasted Peak demand reduction at the station is expected to be 300 kW.
■ Benefits will be realized in the second half of 2006.
■ Forecasted Annual energy savings is expected to be 1,553,000 kWh.
■ Forecasted Peak demand reduction at the station is expected to be 300 kW.

Next Steps

■ Proceed with project implementation.
■ Continue working with ABB and other vendors to alternatively source smaller PT's that can fit into the existing switch gears.
■ The new estimated time of completion for the project is expected to be the first quarter of 2007.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** Load Displacement

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

Distributed generation behind the customer's meter provides an excellent opportunity to displace load from the local distribution system's grid in a very effective manner. Load displacement technology, such as combined heat and power systems, provides increased power efficiency and thermal systems. Combined with an existing or new district heating distribution system this technology contributes to the development of sustainable energy networks within Ontario's communities.

Other technologies such as micro-turbines, wind, biomass fuels and solar provide additional options to meet the customer's needs. This initiative will facilitate the development and implementation of these opportunities. Financial incentives will be considered based on the project's viability.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do nothing.		
Efficient technology:	Photovoltaic panels.		
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date	na		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*		
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 33,869.00	$ 58,289.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 33,869.00	$ 58,289.00
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*			
	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 savings (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:*	$ 834.00	$ 2,708.00
	Incremental O&M:	$ 33,035.00	$ 55,581.00
	Incentive:		
	Total:	$ 33,869.00	$ 58,289.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. Assumptions & Comments:

■ Fund two demonstration projects, matching funding on a dollar per dollar basis up to a maximum of $150,000 for each project.
■ The budget for this program has been decreased from $775K to $362K.
■ Work cooperatively with the City of Mississauga and the Region of Peel to identify suitable candidate demonstration projects, like photovoltaic roof panels.
■ The City of Mississauga made a presentation to Enersource outlining several potential projects.
■ We agreed on demonstrating a photovoltaic roof panel at the Hershey Centre.
■ The Region of Peel has also submitted a paper outlining potential projects.
■ They will be deciding on one of two potential projects for co-funding and implementation in 2007.
■ No kW or kWh results to report.

Next Steps

■ Continue to engage in on going sub-committee meeting with the Region and City.
■ Finalize TRC forecast, once project costs are finalized.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** Stand-by Generators

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

This program provides for the use of customers' existing standby generators when required and/or economical. Environmentally friendly generators will be the primary focus of this initiative however all generators may be considered if needed during an emergency.

Enersource will act as an aggregator of loads to be made available for the market place on a moment's notice, when economical to do so or during critical peak conditions.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do nothing.		
Efficient technology:	Stand-by Generators		
Number of participants or units delivered for reporting year:	3		
Measure life (years):	10		
Number of Participants or units delivered life to date	3		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	*$ 2,301,243.00*	2301243
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 1,513,966.00	$ 2,088,138.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 1,513,966.00	$ 2,088,138.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	1.5	1.10

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	2770	2770
	Winter	3670	3670

	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 savings (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:*	$ 729,758.00	$ 1,248,158.00
	Incremental O&M:	$ 157,366.00	$ 213,138.00
	Incentive:		
	Total:	$ 887,124.00	$ 1,461,296.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:	$ 626,842.00	$ 626,842.00
	Total:	626842	$ 626,842.00

E. Assumptions & Comments:

■ Generators will be controlled from a single dispatch point at Enersource.
■ A 1.25 MW standby natural gas generator was installed and commissioned at Enersource.
■ Enersource has registered this generator with the IESO under the Emergency Load Reduction Program. Currently, the generator setting is set at 400 kW in order to avoid back-feeding to the grid more than the EHM's displaced load.
■ Negotiations were conducted with a number of prospective customers.
■ Loblaws has agreed to use its standby generators at three locations in Mississauga to participate in the Enersource Demand Response Program. Enersource will pay for the installation of transfer switches in order to transfer the load to the generators during demand response events.
■ An estimated total of 200 kW of demand response capacity can be achieved through the Loblaws projects. Two locations have been completed with estimated demand reduction capacity of 70 kW.
■ We have received applications for our demand response program from the GTAA airport (1,700 kW), and Orenda (1,500 kW),
■ Currently, we have 2,770 kW and 2,670 kW dispatchable in summer and winter respectively.
■ TRC results show a 1.5 Benefit-Cost ratio.

Next Steps

■ Raise the current 400 kW setting to 700 kW, since the winter monthly average peak of Enersource office building is between 700 kW to
■ Since the peak demand of the Enersource's building is less than 1.25 MW, Enersource will need to apply to OEB for exemption in orde
■ Enersource will also need to obtain signed agreements from Loblaws regarding demand response.
■ Enersource will apply to OPA to enroll the Enersource and Loblaws generators.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

A. **Name of the Program:** Overall Program Support

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

Several supporting initiatives were considered such as an annual Key Account Conference, Home Show participation, an energy conservation website, customer newsletters, staff training and media support activities etc..

Enersource Hydro launched the following initiative:

powerWISE Brand and powerWISE Website
These initiatives were already described in a previous section.

Special Events Van
The Special Events Van Team at Enersource was created for the purpose of educating the public about energy conservation and ways for consumers to reduce their electricity bills. The team is constantly on the road with the natural gas fuelled van, interacting with the public. The van is promotionally wrapped in energy saving tips and graphics.
The team represents Enersource Hydro Mississauga at various community venues. As part of the energy efficient message, our students hand out various promotional items including showerheads, compact fluorescent lamps, LED light sets and brochures.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Do nothing.		
Efficient technology:	Compact Fluorescent Bulbs.		
Number of participants or units delivered for reporting year:	10,240		
Measure life (years):	4		
Number of Participants or units delivered life to date	10,240		

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
[1] *TRC Benefits ($):*		
[2] *TRC Costs ($):*		
Utility program cost (excluding incentives):	$ 553,228.00	$ 1,307,726.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	$ 553,228.00	$ 1,307,726.00
Net TRC (in year CDN $):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	na	na

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 savings (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:*	$ 123,927.00	$ 153,927.00
	Incremental O&M:	$ 429,301.00	$ 1,153,799.00
	Incentive:		
	Total:	$ 553,228.00	$ 1,307,726.00
Utility indirect costs ($):	*Incremental capital:*	0	$ -
	Incremental O&M:		
	Total:	0	$ -

E. Assumptions & Comments:

■ Utilized the special events team to talk to customers about energy conservation, by participating in community events like Carassauga, the Bread and Honey Festival, the Islamic BBQ and similar.
■ Distributed CFL bulbs, to foster the energy saving message.
■ 3rd Traunche funding was exhausted by the end of April 2006.
■ The program continued under 2nd Generation 2006 Supplemental Funding.
■ Under 3rd Traunche, a total of 10,240 CFLs and thousands of educational and promotional items were distributed, to contribute spreading the energy efficiency and conservation message among the residents of Mississauga.
■ Since January 2006, they have participated at 56 events – 10 of which under 3rd Tranche - and made several 'drop-offs' at libraries and other venues.
■ 3rd Traunche annual energy savings from distributed CFLs were calculated at 244,250 kWh.
■ For TRC purposes, these results were included under the Co-Branded Mass Market Program, which served as the source for funding this initiative.

Next Steps

■ We are reviewing a number of different approaches that can be taken to implement the Bulb Drop portion of the 2nd Generation Supplemental Funding program, including outsourcing its delivery.
■ In the meantime, the Events Van team continues to participate in events around the city to distribute CFLs, funded under 2nd Generatic
■ Continue to interact with the public to further spread the energy conservation message.

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix C - Program and Portfolio Totals

Report Year:

1. Residential and Small Comm <50 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 ($)
Co-Branded Mass Market Program	$ 347,592	$ 98,056	$ 249,536	3.54	14,646,944	92,249,585	472	$ 98,056
SMART Meter Residential	$ -	$ -	$ -	0.00	0	0	0	$ 116,511
SMART Avenues – A Community Pilc	$ 23,456	$ 215,215	-$ 191,759	0.11	9,471	94,710	35	$ 215,215
Residential Load Control Initiative	$ 352,446	$ 1,208,042	-$ 855,596	0.29	32,118	578,124	202	$ 385,991
Social Housing Program	$ 226,908	$ 39,107	$ 187,801	5.80	382,455	3,022,294	0	$ 39,107
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 - Residential and Sr**	$ 950,402	$ 1,560,420	-$ 610,018	0.61	15,070,988	95,944,713	709	$ 854,880
Residential and Small Comm <50 Indirect Costs not attributable to any specific program →								
Total Residential and Small Comm <50 TRC Costs		$ 1,560,420						
****Totals TRC - Residential and Sma**	**$ 950,402**	**$ 1,560,420**	**-$ 610,018**	**0.61**				

2. Comm Ind Inst >50 kW 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 ($)
SMART Meter Commercial Program	$ 370,463	$ 197,200	$ 173,263	1.88	459,532	6,892,979	30	$ 197,200
Business Incentive Program (previou	$ 361,512	$ 276,009	$ 85,503	1.31	619,193	5,732,475	138	$ 117,835
Commercial Industrial & Institutional (	$ 3,660,000	$ 1,003,000	$ 2,657,000	3.65	0	0	4,406	$ 1,003,000
On-the-Bill Payment Plan	$ 231,270	$ 87,528	$ 143,742	2.64	637,317	3,186,585	137	$ 87,528
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 - Comm Ind Inst >5**	$ 4,623,245	$ 1,563,737	$ 3,059,508	2.96	1,716,042	15,812,039	4,711	$ 1,405,563
Comm Ind Inst >50 kW Indirect Costs not attributable to any specific program →								
Total TRC Costs		$ 1,563,737						
****Totals TRC - Comm Ind Inst >50**	**$ 4,623,245**	**$ 1,563,737**	**$ 3,059,508**	**2.96**				

3. Dist Loss Reduction 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 ($)
Distribution Loss Reduction	$ -	$ 615,507	-$ 615,507	0.00	0	0	0	$ 615,507
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 - Dist Loss Reducti**	$ -	$ 615,507	-$ 615,507	0.00	0	0	0	$ 615,507
Dist Loss Reduction Indirect Costs not attributable to any specific program →								
Total TRC Costs		$ 615,507						
****Totals TRC - Dist Loss Reductior**	**$ -**	**$ 615,507**	**-$ 615,507**	**0.00**				

4. Dist Energy 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 ($)
Load Displacement	$ -	$ 33,869	-$ 33,869	0.00	0	0	0	$ 33,869
Stand-by Generators	$ 2,301,243	$ 1,513,966	$ 787,277	1.52	0	0	2,770	$ 1,513,966
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 - Dist Energy	$ 2,301,243	$ 1,547,835	$ 753,408	1.49	0	0	2,770	$ 1,547,835
Dist Energy Indirect Costs not attributable to any specific program →								
Total TRC Costs		$ 1,547,835						
****Totals TRC - Dist Energy**	**$ 2,301,243**	**$ 1,547,835**	**$ 753,408**	**1.49**				

5. Overall Program Support 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 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 - Overall Program S	$ -	$ -	$ -	0.00	0	0	0	$ 553,228
Overall Program Support Indirect Costs not attributable to any specific program →		553,228						
Total TRC Costs		$ 553,228						
****Totals TRC - Overall Program Su**	**$ -**	**$ 553,228**	**-$ 553,228**	**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/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 F			$ -	0.00				
Name of Program G			$ -	0.00				
Name of Program H			$ -	0.00				
Name of Program I			$ -	0.00				
Name of Program C			$ -	0.00				
Totals App. B - LDC System	$ -	$ -	$ -	0.00	0	0	0	$ -
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/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 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	$ -
Other #2 Indirect Costs not attributable to any specific program →								
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**	$ 7,874,890	$ 5,840,727	$ 2,034,163	1.35	$ 16,787,030	$ 111,756,751	$ 8,190	$ 4,977,013
*Any **other** Indirect Costs not attributable to any specific program* →								
TOTAL ALL LDC COSTS		$ 5,840,727						
****LDC' PORTFOLIO TRC**	$ 7,874,890	$ 5,840,727	$ 2,034,163	1.35				

* 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.