



Cornerstone Hydro Electric Concepts Association Inc.

CHEC-RP-2004-0203/EB-2004-0502

Conservation and Demand Management 2007 Annual Report

1.0 Introduction:

This report summarizes the activity and successes of the Cornerstone Hydro Electric Concepts (CHEC) Group with respect to conservation and demand management undertaken in 2007. Included in this document are the sixteen (16) individual reports from the CHEC members that discuss their specific program activities and the associated insights of the members.

Consistent with CHEC members' cooperative effort to seek approval of their CDM plans as a combined group, the Annual Report reflects their commitment to work together to provide cost effective programs and to share and learn from each other's experience. In 2006 one LDC had exhausted their third tranche funding and continued to support the conservation effort by participating in the OPA programs. In 2007 five LDCs completed their third tranche expenditures with three others very close to completing their plans. Eight CHEC members requested extensions on their programs to facilitate completion of the plan.

The individual reports from each utility provides to the reader a better understanding of the activity and focus of each utility while this summary report provides an overview of the impact of this combined effort.

Within the 16 utilities there have been a total of 84 initiatives worked on in 2007. As in previous years the initiatives represent projects specific to individual LDCs and projects that are cooperative efforts between LDCs or agencies (local and OPA programs). While there were 84 initiatives included in the reporting many of the reports contained a number of separate activities joined in one Appendix B.

On the population of 84 initiatives, 37% had a positive TRC. Many initiatives continued to focus on education, studies to prepare customers for continued energy conservation and of course continuation of the partnerships that were started in the first years of the CDM program.

In 2007 the LDCs received additional funding through the OPA model. These additional funds combined with the third tranche funds maintained a high level of CDM activity across the province. In 2007 it was apparent that through the cooperative programs with the LDCs, the OPA gained recognition in the CDM market place. The availability of third tranche funds beyond September 2007

for some LDCs, allows the continuation of locally focused programs over and above the provincial initiatives.

This combined report, in addition to meeting the regulatory requirement, provides a comprehensive summary to CHEC members of the impact of their combined effort.

2.0 CHEC Members:

The 2007 Annual Report on Conservation and Demand Management Activities of the following utilities are included in this report:

Centre Wellington Hydro Ltd.	COLLUS Power Corp
Grand Valley Energy Inc.	Innisfil Hydro
Lakefront Utilities Inc.	Lakeland Power Distribution
Midland Power Utility Corp.	Orangeville Hydro Ltd
Orillia Power Distribution Corp.	Parry Sound Power
Rideau St. Lawrence	Wasaga Distribution Inc.
Wellington North Power Inc.	West Coast Huron Energy Inc.
Westario Power	Woodstock Hydro Services

Where a LDC had completed the program in 2007 their numbers are restated to maintain the completeness of the report.

3.0 Evaluation of the CDM Plan:

Total Portfolio: The 16 CHEC members collectively undertook a total of 84 initiatives. These programs fell within three categories:

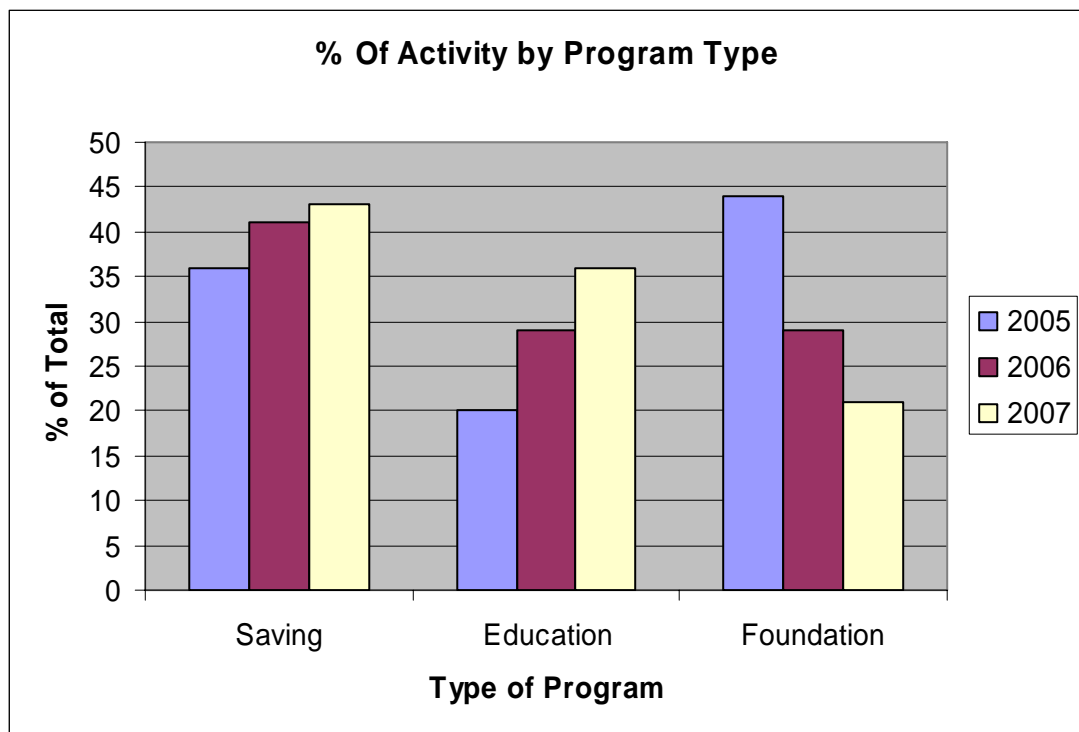
- Savings: Delivery of energy saving products or processes: coupons, rebates, free products, etc.
- Education: Providing general energy management information through such activities as: website development, workshops, brochures, school programs, etc,
- Foundation: Preparatory work for future programs that include: program research and development, energy audits, system studies, demonstration projects, partnerships, etc. In many instances the continuation of these programs were based on directions set in the first two years.

The 2007 initiatives represent a total energy savings (lifecycle) of 35,848,000 kWh at a combined “Utility Cost” of \$1,176,700 or approximately 3.2 c/kWh. This cost of energy saved was achieved while continuing the education and foundation building programs. To put the energy savings in perspective 35.8 Million kWh represents the annual energy required by 2,983 homes (at 1000 kWh/month).

Figure 1 illustrates the change in program makeup from 2005 to 2007. Over the three year period there has been a steady increase in the “saving” and “education” programs. This was offset by a steady decrease in the “foundation” programs. Many of the education programs also incorporated measures to assist participants in their conservation efforts.

The “Foundation” programs in the third year, in many instances, were completion of projects started in the first and second years. In other projects the initiative provides the consumer with specific information that will assist them to implement energy conservation strategies and more fully participate in future programs offered through the LDC/OPA delivery channel.

Figure 1



Savings Programs: The 2007 Annual Report does not contain any of the OPA program results run in 2007. The cumulative number however does contain the impact of OPA coupon programs in 2006. Hence for 2007 the programs which resulted in a net 2007 TRC were all locally driven.

On the local level savings programs continued to focus on local partnerships and delivery channels. This year a number of projects partnered with other community agencies such as social housing to contact customer groups that may not have the opportunity to be fully engaged by the conservation movement.

The use of product incentives and give-a-ways continued to play a significant role in the local programming. Conservation kits, CFL bulbs and other conservation devices were distributed to customers through: school programs, fund raisers, community events and as prizes. A number of utilities also partnered with the Porchlight Project to increase the number of CFL bulbs delivered in their service territory.

System optimization projects continue to be included in the portfolio. The savings by these initiatives can be substantial when compared to the incremental cost. Further initiatives in this area can continue to provide for reduced losses on the systems and the associated demand for energy.

Education Programs: The CHEC LDC's continued their support of the education portfolio and the School Boards in their service territories. Through presentations at schools, support of program development and partnering with delivery agents such as environmental groups, LDCs supported the grade 5 and 9 curriculum. The LDCs involvement helped support the teachers in their efforts and highlighted that conservation is an issue beyond the "academic" environment.

Members continued providing training opportunities to the commercial and industrial sector. A number of programs focused on the small commercial customer and provided conservation measures for installation. In this sector this appeared to be one of the best approaches. Industrial customers continue to be a challenge as it appeared to be difficult to get them to free up time and dollars for conservation. The workshops and materials provided by member LDCs will help to better prepare the customers for such programs as ERIP. However continued focus on this customer group, making efforts to understand and address their specific barriers to conservation will be required.

The education programs, while not focused on kWh savings set the stage for improved performance of programs more focused on savings. The education initiatives increase the level of conservation awareness and help to foster the conservation culture within the province.

Foundation Program: While the number of "foundation" programs were on a decline, as would be expected, they remain significant. In 2007 the "foundation" programs contained a number of audit initiatives to provide specific information to the customer for savings. While in many instances implementation has not occurred it is anticipated that a number of these will encourage participation in programs such as ERIP.

In 2007 the longer term "foundation" programs such as: system optimization studies, smart meter preparation, and demonstration projects were completed, consistent with the funding.

Net TRC Results: The net TRC result of the combined CHEC CDM activity for 2007 is \$882,739 down from \$3,800,000 in 2006 however up from \$500,000 in 2005. The TRC for the second year of the program was skewed by the EKC programs that were included in the 2006 Annual Report. The continued strong performance in the third year resulted from higher levels of activity of utilities with funds remaining and the inclusion of conservation measures in education programs. Education programs are an excellent way to support the theory with practical applications and implementation.

4.0 Discussion of Programs:

The individual program discussions from each utility are included in the following sections of this report. These discussions provide the individual utility perspective on the programs as offered in their service territory. The complete Annual CDM Report for each utility is included in the appendices.

5.0 Lessons Learned:

Partnerships and Sharing: In the 2006 report it was noted that the ability to partner was increased in year two. In year three the trend continued with a number of not-for-profit agencies entering into partnerships with CHEC members. These partnerships were community centered and in many cases very cost effective.

The availability of funds at the local level to support these initiatives increased the penetration of projects in the service territories. Continuation of funds at the local level (perhaps through custom programs) to ensure the continuation of the current momentum, should prove beneficial to the conservation movement and the conservation culture that has developed.

CHEC members continue to share information between members and also with other LDCs. Combined efforts for the purchase of product and resources continue to support the conservation efforts of CHEC.

TRC: TRC continues to be one of the primary measures of third tranche programs and the OEB Guideline has been key in the general understanding of total resource costing as applied to the electrical system. This understanding will continue as the OPA applies TRC to future programs. It is interesting to note that the values of measures under the OPA evaluation method are different from those in the OEB tool.

Funding: A number of CHEC members have extended the time line for third tranche funding. The extensions in many instances have been focused around industrial commercial funds that have not been fully utilized. The longer lead time for industry to respond and the introduction of OPA programs has impacted

on the expenditure of these funds. However the availability of the funds for a slightly longer period will provide opportunities for early 2008.

Third Tranche and OPA Programs: Third tranche CDM Programs were impacted by the OPA Programs introduced in 2006 and 2007. Programs such as the coupon program, ERIP and Peak Saver in many instances were very similar or extensions of programs developed with third tranche funds. As such LDCs stepped back and reevaluated their plans to adjust for the provincial initiative. By adjusting their programs LDCs ensured they were not duplicating efforts and were in fact investing third tranche funds in areas that were not being addressed by existing programs.

Customer Readiness: The residential customers have been responsive to programs over the three year period. Small surveys by members and anecdotal comments appear to indicate an increased awareness and readiness for electrical conservation – indicators of the development of the “conservation culture”.

As noted earlier the industrial and commercial customers continue to present a challenge. This sector appears to be aware of potential opportunities however lack the resources for evaluation and implementation of projects that do not appear focused to their core business. With the preparatory work over the last three years it is hoped that this customer sector is better prepared to move into implementation as the CDM industry continues with offerings that better meet their needs.

Utility Resources: Utility resources were challenged to meet the combined requirements of third tranche and OPA programs. In many instances the LDCs contracted internal resources or hired external consultants to assist with program management and delivery. It was found however that in many instances regular staff continues to play a critical role in setting the direction, reporting and monitoring the programs. The ability to manage these requirements as the industry moves forward continues to be an issue LDCs will need to address.

6.0 Conclusion:

The third year of CDM continued to deliver information, kWh savings and the support to the conservation culture.

While third tranche funding is coming to an end the conservation and demand management momentum started by the LDC programs will continue through the current OPA/LDC funding mechanism. The third tranche funding allowed for local initiatives that not only provided kWh savings but provided education opportunities aimed at preparing customers for future savings.

7.0 Appendices:

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Individual Utility CDM 2006 Annual Report RP-2004-0203/EB-2004-0502

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INNISFIL HYDRO DISTRIBUTION SYSTEMS LIMITED
ANNUAL CDM REPORT
FOR THE YEAR ENDING DECEMBER 31, 2007

INTRODUCTION

Innisfil Hydro Distribution Systems Ltd (IHDSL) is pleased to submit its Annual Report on the progress made in applying the third tranche (\$191,000) monies to conservation and demand management programs. Attached to this report is Appendix A – Evaluation of the CDM Plan, Appendix B – Discussion of the Program for the individual programs and Appendix C – Program and Portfolio Totals. IHDSL has submitted its conservation and demand management plan with the CHEC Group and has received a final order dated February 8, 2006 approving spending on the following programs:

OVERVIEW OF BUDGET VS PER YEAR COSTS

Program	February 2005 Order	Revised Program Cost	2005 Cost	2006 Cost	2007 Cost
Website/Survey	\$ 14,500.00	\$ 9,283.34	\$ 7,243.34	\$ 2,040.00	\$ 0.00
Education/Promotion	\$ 16,500.00	\$ 29,229.69	\$ 12,924.33	\$ 2,146.11	\$ 14,159.25
Partnership/Sponsorship	\$ 27,000.00	\$ 11,546.01	\$ 5,528.00	\$ 626.18	\$ 5,391.83
System Optimization	\$ 51,000.00	\$ 62,767.26	\$ 3,534.87	\$ 45,000.00	\$ 14,232.39
Smart/Interval Meters	\$ 31,000.00	\$ 30,392.90	\$ 5,128.28	\$ 6,520.86	\$ 18,743.76
Renewable energy	\$ 51,000.00	\$ 47,780.80	\$ 0.00	\$ 33,280.80	\$ 14,500.00
TOTALS	\$191,000.00	\$191,000.00	\$ 34,358.82	\$ 89,613.95	\$ 67,027.23

DISCUSSION OF PROGRAMS:

#1. NAME OF PROGRAM: Conservation Website/Survey

The intent of this program is to initiate an active conservation culture. A common conservation website is a significant avenue of opportunity to educate, inform, advertise and reach out to energy consumers. Using economies of scale the costs are shared with other members of the CHEC group and the increased buying power of the group will leverage more value to customers and shareholders. A customer survey and the administration costs of the CHEC group Coordinator has been included within this program.

Program #1: A conservation website is a significant avenue of opportunity to educate, inform, advertise and reach out to energy consumers. Development and maintenance costs would be shared as would contribution requirements resulting in a more robust and interactive website. This website would also be linked to IHDSL's main website which would be enhanced by the availability of the combined resources. Components of the website would range from energy savings concepts to various industries and load profile services.

Program #2: Engaging the community as a whole and fostering the conservation culture through its infancy are the expected yield from the program. Survey success is often limited due to the rather small sample of potential customers, however, the joint survey efforts of our group will maximize the value of the survey and provide the necessary background and baseline information to enable member LDCs to make better decisions on program design and targeting funds to programs of customer value. These surveys may also be used to establish baselines for assessment of future program impacts. Utilizing economies of scale, the survey costs are shared with other members of the CHEC group.

TOTAL PROGRAM COST: \$9,283.34

**COSTS INCURRED
At December 31, 2007: \$9,283.34**

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#2. NAME OF PROGRAM: Education and Promotion

The intent of this program is to further create a foundation of an active conservation culture. Engaging the community as a whole and fostering the conservation culture through educating are the expected yield from the program.

Program #1: Using economies of scale the education and promotion costs are shared with other members of the CHEC group and the increased buying power of the group will leverage more value to customers and shareholders. Education brochures produced by the Ministry of Energy – "Conserve Energy and Save Money". These were purchased and provided to all residential and general service customers within our distribution territory.

Program #2: Working in conjunction with the Simcoe County School Board, a program focusing on developing a energy education in the Grade 5 curriculum. Lesson plans include developments and implementation of a School Energy Conservation Action Plan and a Home Energy Audit.

TOTAL PROGRAM COST: \$29,229.69

**COSTS INCURRED
At December 31, 2007 \$29,229.69**

#3. NAME OF PROGRAM: Partnership/Sponsorship Programs

The intent of this program is to target customers through financial incentives for more energy efficient appliances. Program design included highlights of potential savings by appliance, procurement direction etc. Savings for these depend on the needs and use of the appliances and the user to limit use or alter comfort and convenience.

Using the economies of scale the costs are shared with other member of the CHEC group in administering and choosing the right vendor. The coupon program was delivered with the help of local Canadian Tire as the distributor and cosponsor of this program. There are six types of energy conservation coupon programs offered. The discount coupon programs are for Seasonal LED Christmas lights, Compact Fluorescent Lights, Programmable Thermostats, Ceiling Fans, Outdoor Timers and Indoor Timers.

TOTAL PROGRAM COST: \$11,546.01

**COSTS INCURRED
At December 31, 2006: \$11,546.01**

#4. NAME OF PROGRAM: System Optimization & Implementation

The intent of this program is to target reductions in distribution system losses. The overall benefits of this program will be to identify and implement projects that will improve/reduce distribution system losses and improve system efficiency. Supporting corrective action by taking direct control over an upgrade resulted in system demand reductions and relieves network capacity, on both a local and system wide basis.

Program #1: By performing a study for voltage conversion IHDSL was able to determine the benefits of increasing the distribution system voltage which resulted in lower line losses. For example installation of Capacitor banks is expected to provide approximately 2m kWh lifecycle savings.

Program #2: Within our local municipality street lights will be changed from florescence and mercury bulbs to 70 and 100 watt high pressure sodium fixtures as part of the energy conservation program

INNISFIL HYDRO DISTRIBUTION SYSTEMS LIMITED
ANNUAL CDM REPORT
FOR THE YEAR ENDING DECEMBER 31, 2007

with the Town of Innisfil. Anticipated results will include savings in consumption and maintenance costs as the life expectancy of the new bulbs is 8-10 times that of conventional lights.

TOTAL PROGRAM COST:	\$62,767.26
COSTS INCURRED	
At December 31, 2007:	\$62,767.26

#5. NAME OF PROGRAM: Smart Metering

Pilot studies will be conducted to investigate applicability and optimum introduction of smart meters. Steps are to include the ongoing evaluation of technologies appropriate for retrofit applications including, literature and product reviews, meetings, technical and economic assessment along with the development of the plan.

IHDSL, along with other members of the CHEC group have joined the OUSM group, who has coordinated the multiple technologies. This will provide IHDSL with the ability to gain access to documented test results from a variety of vendors that were all tested using exactly the same testing process. This has provided economies of scale as ultimately all LDCs will need to compare and spend time separating the claims of vendors from the actual services and deliverables they can provide. The ability to share information and questions with other members of the group provide additional benefits in the implementation planning as well as customer education and systems integration issues.

TOTAL PROGRAM COST:	\$30,392.9
COSTS INCURRED	
At December 31, 2007:	\$30,392.9

#6. NAME OF PROGRAM: Renewable Energy Study

A study was conducted to determine the feasibility of a local renewable wind energy project.

Renewable energy sources, and in particular wind power is a central focus in the supply diversity of the Ontario Government. Investigations will be conducted to determine appropriate areas where this concept can be promoted where they fit local demographic needs. Local schools will also be contacted to determine if the development of wind studies can be integrated with their program of science studies. Partnerships will be investigated to determine if a program can be designed to enhance the educational aspect of this energy source.

TOTAL PROGRAM COST:	\$47,780.80
COSTS INCURRED	
At December 31, 2007:	\$47,780.80

INNISFIL HYDRO DISTRIBUTION SYSTEMS LIMITED
ANNUAL CDM REPORT
FOR THE YEAR ENDING DECEMBER 31, 2007

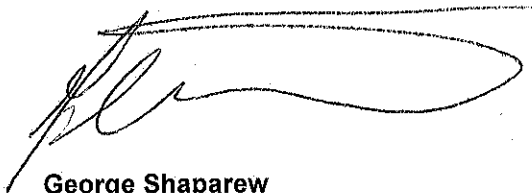
EVALUATION OF CDM PLAN:

See attached Appendix "B" for each program above-noted, Appendix "A" an Evaluation of the overall CDM Plan and Appendix "C" for the Program and Portfolio totals.

LESSONS LEARNED and GENERAL COMMENTS:

1. IHDSL has successfully saved 3,419,469 kWh over the lives of the 6 programs being reporting with 106,409 kWh saved in 2007.
2. IHDSL has successfully reached/delivered 31,190 participants as part of the CDM programs for 2007.
3. The cumulative net TRC for IHDSL is a negative value of \$32,021. The coupon program and system optimization program generated a favourable TRC of \$47,935. The remaining programs generated a negative TRC value of \$79,956. When creating a foundation of an active conservation culture costs are incurred to educate the masses of the different aspects of conservation and demand management such as renewable energy studies, school education programs, brochures, web site development, program management etc.
4. Overall expenditures per kWh saved are \$0.05 based on the cumulative programs. IHDSL will to continue fostering CDM programs, opportunities and partnerships within the Electricity community of the Ontario
5. As smart metering implementation becomes reality, IHDSL believes that the combined focus of the UtilAssist OUSM Group has provided great economies of scale for the smaller LDCs. Through this group we are able to test various technologies and develop standards as a group as opposed to "going it alone".

Yours truly,



George Shaparew
President

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 2007	Residential	Commercial	Institutional	Industrial	Agricultural	LDC System	⁴ Smart Meters	Other #1	Other #2
<i>Net TRC value (\$):</i>	- 32,021.10	\$ 19,276	\$ 33,776	\$ -	\$ -	\$ -	\$ -	\$ -		\$ (14,500)	\$ -
<i>Benefit to cost ratio:</i>	0.81	1.32	1.73	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<i>Number of participants or units delivered:</i>	31,190	1,523	1,522	0	0	0	0	0		1	0
<i>Lifecycle (kWh) Savings:</i>	3,419,468.77	1,995,075	1,995,075	0	0	0	0	0		0	0
<i>Report Year Total kWh saved (kWh):</i>	106,408.67	317	316	1	0	0	0	0		0	0
<i>Total peak demand saved (kW):</i>		12	12	0	0	0	0	0		0	0
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>	0.02%	0.00%	#DIV/0!	0.00%	0.00%	0.00%	0.00%	0.00%		#DIV/0!	0.00%
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>		0.02%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%
¹ <i>Report Year Gross C&DM expenditures (\$):</i>	191,000.24	\$ 67,027	\$ 33,783	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,744	\$ 14,500	\$ -
² <i>Expenditures per kWh saved (\$/kWh):</i>	0.056	\$ 0.03	\$ 0.02	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
³ <i>Expenditures per kW saved (\$/kW):</i>		\$ 5,569.66	\$ 2,807.24	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Utility discount rate (%):</i>	9.1										

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 C - Program and Portfolio Totals

Report Year: 2007

1. Residential Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Website Conservation/Administration	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Education and Promotion	\$ -	\$ 14,159	\$ -14,159	0.00	0	0	0	\$ 14,159
Partnerships/Sponsorships-Coupon f	\$ 361	\$ 5,824	\$ -5,463	0.06	316	4,419	0	\$ 5,392
Installation of Capacitor Banks to red	\$ 79,498	\$ 26,100	\$ 53,398	3.05	0	1,990,656	11	\$ 14,232
System Optimization through Street L	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
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	\$ 79,859	\$ 46,083	\$ 33,776	1.73	316	1,995,075	12	\$ 33,783
Residential Indirect Costs not attributable to any specific program	\$ -				Total Residential kWh Delivered in 2007			
Total Residential TRC Costs		\$ 46,083			System Peak in 2007		52,491	
**Totals TRC - Residential	\$ 79,859	\$ 46,083	\$ 33,776	1.73				

2. Commercial Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/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	1			
*Totals App. B -	\$ -	\$ -	\$ -	0.00	1	0	0	\$ -
Commercial Indirect Costs not attributable to any specific program	\$ -				Total Commercial kWh Delivered in 2007			
Total TRC Costs		\$ -			System Peak in 2007		52,491	
**Totals TRC - Commercial	\$ -	\$ -	\$ -	0.00				

3. Institutional Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program 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 -	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Institutional Indirect Costs not attributable to any specific program	\$ -				Total Institutional kWh Delivered in 2007			
Total TRC Costs		\$ -			System Peak in 2007		52,491	
**Totals TRC - Institutional	\$ -	\$ -	\$ -	0.00				

4. Industrial Programs

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

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

	TRC Benefits (PV)		\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year	Lifecycle (kWh) Savings	Total Peak	Report Year
	(PV)	TRC Costs (PV)			Total kWh Saved		Demand (kW) Saved	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 -	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Industrial Indirect Costs not attributable to any specific program					Total Industrial kWh Delivered in 2007			
Total TRC Costs		\$ -			System Peak in 2007		52,491	
**Totals TRC - Industrial	\$ -	\$ -	\$ -	0.00				

5. Agricultural Programs

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

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

	TRC Benefits (PV)		\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year	Lifecycle (kWh) Savings	Total Peak	Report Year
	(PV)	TRC Costs (PV)			Total kWh Saved		Demand (kW) Saved	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 -	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Agricultural Indirect Costs not attributable to any specific program					Total Agricultural kWh Delivered in 2007			
Total TRC Costs		\$ -			System Peak in 2007		52,491	
**Totals TRC - Agricultural	\$ -	\$ -	\$ -	0.00				

6. LDC System Programs

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

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

	TRC Benefits (PV)		\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year	Lifecycle (kWh) Savings	Total Peak	Report Year
	(PV)	TRC Costs (PV)			Total kWh Saved		Demand (kW) Saved	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 -	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
LDC System Indirect Costs not attributable to any specific program					Total Losses kWh Delivered in 2007			
Total TRC Costs		\$ -			System Peak in 2007		52,491	
**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 (\$) → 18,744

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 (\$)
Wind Energy Study	\$ -	\$ 14,500	-\$ 14,500	0.00	0	0	0	\$ 14,500
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 -	\$ -	\$ 14,500	-\$ 14,500	0.00	0	0	0	\$ 14,500
Other #1 Indirect Costs not attributable to any specific program					Total Other kWh Delivered in 2007			
Total TRC Costs		\$ 14,500			System Peak in 2007		52,491	
**Totals TRC - Other #1	\$ -	\$ 14,500	-\$ 14,500	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 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 -	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Other #2 Indirect Costs not attributable to any specific program					Total Other kWh Delivered in 2007			
Total TRC Costs		\$ -			System Peak in 2007		52,491	
**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	\$ 79,859	\$ 60,583	\$ 19,276	1.32	\$ 317	\$ 1,995,075	\$ 12	\$ 67,027
Any other Indirect Costs not attributable to any specific program					Total kWh Delivered in 2007		241,154,636.00	
TOTAL ALL LDC COSTS		\$ 60,583			Total Peak in 2007 in kW		52,491	
**LDC' PORTFOLIO TRC	\$ 79,859	\$ 60,583	\$ 19,276	1.32				
					Total kWh Delivered in 2006/05		234,398,899.00	

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

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Website Conservation/Administration

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

The intent of this program is to create a conservation website to inform and reach out to energy consumers. The website costs are shared with other members of the CHEC group. The admin costs of the CHEC Coordinator for the CHEC group has been included within this program. Also a customer survey was deployed to better make decisions for program targets and design.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	0		
Number of participants or units delivered:	0.00		
Measure life (years):	0.00		
Number of participants/units 05&06	14300		
Number of Participants or units delivered life-to-date	14,300.00		

TRC Results:		Reporting Year	Total 05&06 TRC Results	Life-to-date TRC Results:
B.	¹ TRC Benefits (\$):	\$ -		\$ -
	² TRC Costs (\$):			
	Utility program cost (less incentives):	\$ -	\$ 9,283.34	\$ 9,283.34
	Incremental Measure Costs (Equipment Costs)	\$ -		\$ -
	Total TRC costs:	\$ -	\$ 9,283.34	\$ 9,283.34
	Net TRC (in year CDN \$):	\$ -	\$ -9,283.34	\$ (9,283.34)
	Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

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

Conservation Programs:

Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
			0.00	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
			0.00	0.00
			Total 05&06 Lifecycle	Total 05&06 Annual
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

Amount of KVar installed (KVar):	
----------------------------------	--

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

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

Line Loss Reduction Programs:

Peak load savings (kW):

Energy savngs (kWh): lifecycle in year

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

		<u>Reporting Year</u>	<u>Total 05&06 Costs</u>	<u>Cumulative Life to Date</u>
D. Program Costs*:				
Utility direct costs (\$):	Incremental capital:	\$ -	<input type="text"/>	\$ -
<i>Includes Measure's Cost - ensure full cost of measure entered in TRC/L15</i>	Incremental O&M:	\$ -	\$ 9,283.34	\$ 9,283.34
	Incentive:	\$ -	<input type="text"/>	\$ -
	Total:	\$ -	\$ 9,283.34	\$ 9,283.34
Utility indirect costs (\$):	Incremental capital:	\$ -	<input type="text"/>	\$ -
	Incremental O&M:	\$ -	<input type="text"/>	\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ -	\$ 9,283.34	\$ 9,283.34

E. Assumptions & Comments:

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 b

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Education and Promotion

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

To create a foundation of an active conservation culture by engaging the community as a whole and fostering the this culture through educating energy customers. Education brochures produced by the Ministry of Energy-"Conserve Energy and Save Money". These were purchased and provided to all residential and general service customers.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	0		
Number of participants or units delivered:	1,520.00		
Measure life (years):	0.00		
Number of participants/units 05&06	14500		
Number of Participants or units delivered life-to-date	16,020.00		

TRC Results:		Reporting Year	Total 05&06 TRC Results	Life-to-date TRC Results:
B.	¹ TRC Benefits (\$):	\$ -		\$ -
	² TRC Costs (\$):			
	Utility program cost (less incentives):	\$ 14,159.25	\$ 15,070.44	\$ 29,229.69
	Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
	Total TRC costs:	\$ 14,159.25	\$ 15,070.44	\$ 29,229.69
	Net TRC (in year CDN \$):	\$ (14,159.25)	-\$ 15,070.44	\$ (29,229.69)
	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	0.00	Report Summer Demand (kW)	
			0.00	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
		0.00	0.00	0
			Total 05&06 Lifecycle	Total 05&06 Annual
Other resources saved :				
Natural Gas (m3):		0	0	
Water (l)		0	0	

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):

		<u>Reporting Year</u>	<u>Total 05&06 Costs</u>	<u>Cumulative Life to Date</u>
D.	<u>Program Costs*:</u>			
	Utility direct costs (\$):	\$ -		\$ -
	<i>Incremental capital:</i>			
	Includes Measure's Cost - ensure full cost of measure entered in TRC:L15	\$ 14,159.25	\$ 15,070.44	\$ 29,229.69
	<i>Incremental O&M:</i>	\$ -		\$ -
	<i>Incentive:</i>	\$ -		\$ -
	<i>Total:</i>	\$ 14,159.25	\$ 15,070.44	\$ 29,229.69
	Utility indirect costs (\$):	\$ -		\$ -
	<i>Incremental capital:</i>			
	<i>Incremental O&M:</i>	\$ -		\$ -
	<i>Total:</i>	\$ -	\$ -	\$ -
	Total Utility Cost of Program	\$ 14,159.25	\$ 15,070.44	\$ 29,229.69

E. **Assumptions & Comments:**

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 b

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Partnerships/Sponsorships-Coupon Program

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

Coupon program offering rebates to residential customers on a range of energy efficient technologies utilized by Canadian Tire Corporation.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	0		
Number of participants or units delivered:	1.00		
Measure life (years):	0.00		
Number of participants/units 05&06	757		
Number of Participants or units delivered life-to-date	758.00		

B. TRC Results:	Reporting Year	Total 05&06 TRC Results		Life-to-date TRC Results:	
¹ TRC Benefits (\$):	\$ 361.12	\$ 34,749.00	\$ 34,749.00		
² TRC Costs (\$):					
Utility program cost (less incentives):	\$ 5,391.83	\$ 6,154.18	\$ 11,546.01		
Incremental Measure Costs (Equipment Costs)	\$ 432.00		\$ 432.00		
Total TRC costs:	\$ 5,823.83	\$ 6,154.18	\$ 11,546.01		
Net TRC (in year CDN \$):	\$ (5,391.83)	\$ 28,594.82	\$ 23,132.11		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.06	\$ 5.65	\$ 2.93		

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

Conservation Programs:

Demand savings (kW):	Summer	0.32	Report Summer Demand (kW)	
			Winter	0.00
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
	4,419.45	315.68	779431.95	75106.875
Other resources saved :			Total 05&06 Lifecycle	Total 05&06 Annual
Natural Gas (m3):	0	0	775012.5	74791.2
Water (l)	0	0		

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

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

Line Loss Reduction Programs:

Peak load savings (kW):

lifecycle in year

Energy savngs (kWh):

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

		<u>Reporting Year</u>	<u>Total 05&06 Costs</u>	<u>Cumulative Life to Date</u>
D. <u>Program Costs*:</u>				
Utility direct costs (\$):	Incremental capital:	\$ 5,391.83		\$ 5,391.83
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	Incremental O&M:	\$ -	\$ 3,406.18	\$ 3,406.18
	Incentive:	\$ -	\$ 2,748.00	\$ 2,748.00
	Total:	\$ 5,391.83	\$ 6,154.18	\$ 11,546.01
Utility indirect costs (\$):	Incremental capital:	\$ -		\$ -
	Incremental O&M:	\$ -		\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ 5,391.83	6,154.18	11,546.01

E. Assumptions & Comments:

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 b

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Installation of Capacitor Banks to reduce losses

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

Install capacitor banks on the distribution system. Only a portion of the total cost charged to CDM as a rebate/incentive.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	No Capacitor Banks		
Efficient technology:	Capacitor Banks		
Number of participants or units delivered:	1.00		
Measure life (years):	20.00		
Number of participants/units 05&06			
Number of Participants or units delivered life-to-date	1.00		

B. TRC Results:	Reporting Year	Total 05&06 TRC Results	
		Life-to-date TRC Results:	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ 79,498.05	\$ 3,980.91	\$ 83,478.96
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 3,534.87	\$ 3,534.87
Incremental Measure Costs (Equipment Costs)	\$ 26,100.00	\$ 26,100.00	\$ 26,100.00
Total TRC costs:	\$ 26,100.00	\$ 3,534.87	\$ 29,634.87
Net TRC (in year CDN \$):	\$ 53,398.05	\$ 446.04	\$ 53,844.09
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	3.05	1.13	2.82

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

Conservation Programs:

Demand savings (kW):	Summer	11.34	Report Summer Demand (kW)	
	Winter	11.34	11.34	
Energy saved (kWh):	lifecycle	1,990,656.00	in year	0.00
			Cumulative Lifecycle	2107381
			Cumulative Annual Savings	4669
			Total 05&06 Lifecycle	116725
		05&06 Annual	4669	
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

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):		11
Energy savngs (kWh):	lifecycle	1,990,656
	in year	

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):



		Reporting Year	Total 05&06 Costs	Cumulative Life to Date
D. Program Costs*:				
Utility direct costs (\$):	Incremental capital:	\$ -	\$ 3,534.87	\$ 3,534.87
	Incremental O&M:	\$ -	\$ -	\$ -
	Incentive:	\$ 14,232.39	\$ -	\$ 14,232.39
	Total:	\$ 14,232.39	\$ 3,534.87	\$ 17,767.26
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -	\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ 14,232.39	\$ 3,534.87	\$ 17,767.26

E. Assumptions & Comments:



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 b

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

On Peak and Off Peak Times

By entering an evenly split load into cell A15 the load is divided between the different Price Periods. Can be copied into Assumption Table

Season	Winter (December to March)			Summer (June to September)			Shoulder (April, May, Oct., Nov)	
	On Peak	Mid Peak	Off Peak	On Peak	Mid Peak	Off Peak	Mid Peak	Off Peak
Price Period	7 am to 11 am	11 am to 5 pm	10 pm to 7 am	11 pm to 5 pm	7 am to 11 am	10 pm to 7 am	7 am to 10 am	10 pm to 7 am
Time of Day	5 pm to 8 pm	8 pm to 10 pm	All weekend hrs.		5 pm to 10 pm	All weekend hrs.		All weekend hrs.
# of Hours	602	688	1614	522	783	1623	1305	1623
% of Annual Hours	6.87%	7.85%	18.42%	5.96%	8.94%	18.53%	14.90%	18.53%
Consistent Load								
110592	7600.04	8685.76	20376.20	6590.07	9885.11	20489.82	16475.18	20489.82

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** System Optimization through Street Light Conversion

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

Convert municipal streetlight from fluorescent and mercury to high pressure sodium. Program to save energy and reduce streetlight demand. Replacement of 11 units from 120w fluorescent to 100HPS, 53 units from 120w fluorescent to 70 HPS, 32 units from 125w mercury to 70 HPS and 14 units from 175w mercury to 100 HPS.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4
Base case technology:	120 watt Fluorescent	120 watt Fluorescent	125 watt mercury	175 watt mercury
Efficient technology:	100 HPS	70 HPS	70 HPS	100 HPS
Number of participants or units delivered:				
Measure life (years):				
Number of participants or units 2005	11	53	32	14
Number of Participants or units delivered life-to-date	11.00	53.00	32.00	14.00

B. TRC Results:	Reporting Year	2005/06 TRC Results		Life-to-date TRC Results:
TRC Benefits (\$):	\$ -	\$ 17,716.66	\$ 17,716.66	
Measure's Costs (\$):				
Utility program cost (less incentives):	\$ -	-	\$ -	
Incremental Measure Costs (Equipment Costs)	\$ -	\$ 40,491.00	\$ 40,491.00	
Total TRC costs:	\$ -	\$ 40,491.00	\$ 40,491.00	
Net TRC (in year CDN \$):	\$0.00	-\$ 22,774.34	\$ (22,774.34)	
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	\$ 0.44	\$ 0.44	

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

Conservation Programs:

Demand savings (kW):	Summer	0.00	Report Winter Demand (kW)	
	Winter	0.37	0.00	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
			532655.82	26632.791
	2005 Lifecycle			2005 Annual
	532655			26632
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. Program Costs*:

			<u>2005/06 Costs</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	Incremental capital:	\$ -		\$ -
Error Choose Measures Cost Paid By on TRC5	Incremental O&M:	\$ -	\$ 45,000.00	\$ 45,000.00
	Incentive:	\$ -		\$ -
	Total:	\$ -	\$ 45,000.00	\$ 45,000.00
Utility indirect costs (\$):	Incremental capital:	\$ -		\$ -
	Incremental O&M:	\$ -		\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ -	\$ 45,000.00	\$ 45,000.00

E. Assumptions & Comments:

[Redacted content]

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

(complete this section for each program)

A. **Name of the Program:** Smart and interval meters

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

Pilot studies to be conducted to investigate applicability and optimum introduction of smart meters. Through joining the OUSM group, this provides IHDSL an ability to gain access to documented test results from a variety of vendors. IHDSL will also be providing interval meters to GS>50 customers in order to education on conservation and demand load shifting.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	0		
Number of participants or units delivered:	0.00		
Measure life (years):	0.00		
Number of participants/units 05&06			
Number of Participants or units delivered life-to-date	0.00		

TRC Results:		Reporting Year	Total 05&06 TRC Results	Life-to-date TRC Results:
B.	¹ TRC Benefits (\$):	\$ -		\$ -
	² TRC Costs (\$):			
	Utility program cost (less incentives):	\$ 18,743.76	\$ 11,649.14	\$ 30,392.90
	Incremental Measure Costs (Equipment Costs)	\$ -		\$ -
	Total TRC costs:	\$ 18,743.76	\$ 11,649.14	\$ 30,392.90
	Net TRC (in year CDN \$):	\$ (18,743.76)	-\$ 11,649.14	\$ (30,392.90)
	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	0.00	Report Summer Demand (kW)	
			0.00	
Energy saved (kWh):	Winter	0.00	Cumulative Lifecycle	Cumulative Annual Savings
		lifecycle	0.00	0
		in year		
			Total 05&06 Lifecycle	Total 05&06 Annual

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	0	0

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

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

Line Loss Reduction Programs:

Peak load savings (kW):

Energy savngs (kWh): lifecycle in year

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

		<u>Reporting Year</u>	<u>Total 05&06 Costs</u>	<u>Cumulative Life to Date</u>
D. Program Costs*:				
Utility direct costs (\$):	Incremental capital:	\$ -	<input type="text"/>	\$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	Incremental O&M:	\$ 18,743.76	\$ 11,649.14	\$ 30,392.90
	Incentive:	\$ -	<input type="text"/>	\$ -
	Total:	\$ 18,743.76	\$ 11,649.14	\$ 30,392.90
Utility indirect costs (\$):	Incremental capital:	\$ -	<input type="text"/>	\$ -
	Incremental O&M:	\$ -	<input type="text"/>	\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ 18,743.76	\$ 11,649.14	\$ 30,392.90

E. Assumptions & Comments:

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 b

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Wind Energy Study

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

Pilot study being conducted to investigate applicability of a sustainable windmill.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	0		
Number of participants or units delivered:	1.00		
Measure life (years):	0.00		
Number of participants/units 05&06			
Number of Participants or units delivered life-to-date	1.00		

B. TRC Results:	Reporting Year	Total 05&06 TRC	Life-to-date TRC
		Results	Results:
¹ TRC Benefits (\$):	\$ -		\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ 14,500.00	\$ 33,280.80	\$ 47,780.80
Incremental Measure Costs (Equipment Costs)	\$ -		\$ -
Total TRC costs:	\$ 14,500.00	\$ 33,280.80	\$ 47,780.80
Net TRC (in year CDN \$):	\$ (14,500.00)	-\$ 33,280.80	\$ (47,780.80)
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	0.00	Report Summer Demand (kW)	
			Winter	0.00
			Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):	lifecycle	0.00	0	0
		in year	0.00	
			Total 05&06 Lifecycle	Total 05&06 Annual
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

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

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

Line Loss Reduction Programs:

Peak load savings (kW):

Energy savngs (kWh): lifecycle in year

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

		<u>Reporting Year</u>	<u>Total 05&06 Costs</u>	<u>Cumulative Life to Date</u>
D. Program Costs*:				
Utility direct costs (\$):	Incremental capital:	\$ -	<input type="text"/>	\$ -
Error: Choose Measure's cost paid by:	Incremental O&M:	\$ 14,500.00	\$ 33,280.80	\$ 47,780.80
	Incentive:	\$ -	<input type="text"/>	\$ -
	Total:	\$ 14,500.00	\$ 33,280.80	\$ 47,780.80
Utility indirect costs (\$):	Incremental capital:	\$ -	<input type="text"/>	\$ -
	Incremental O&M:	\$ -	<input type="text"/>	\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ 14,500.00	\$ 33,280.80	\$ 47,780.80

E. Assumptions & Comments:

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 numebr of units times the net present value per unit b

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