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:

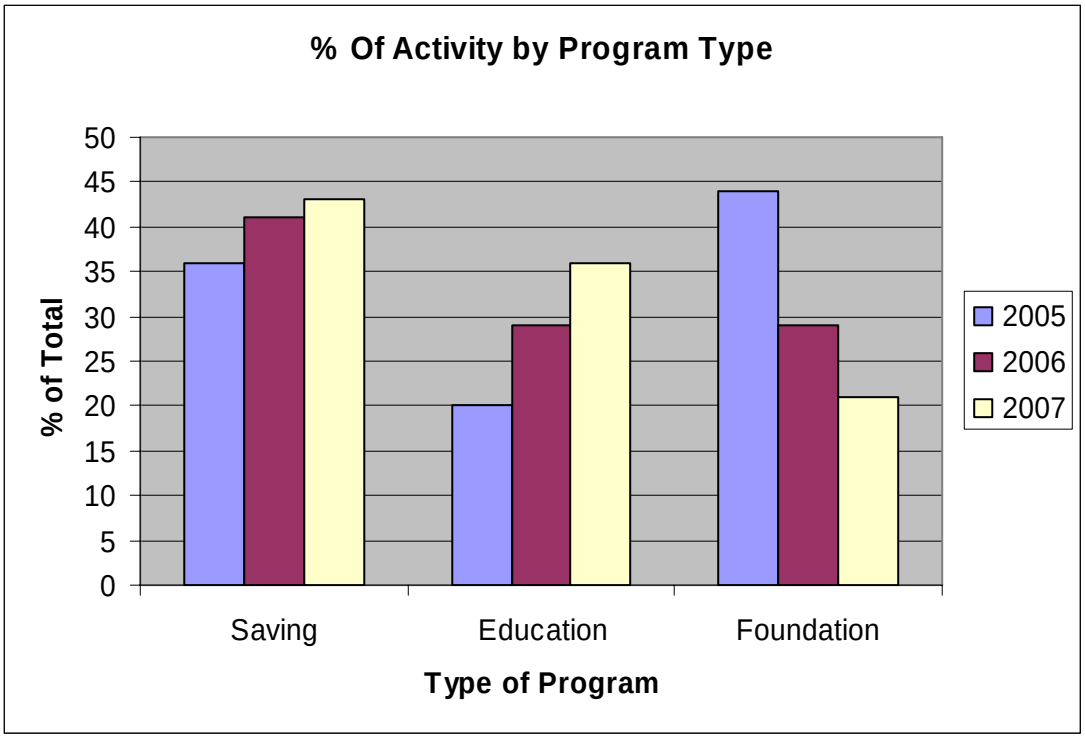
- Savings: Delivery of energy saving products or processes: coupons, rebates, free products, etc.
- Education: Providing general energy management information through such activities as: website development, workshops, brochures, school programs, etc,
- Foundation: Preparatory work for future programs 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:

Appendix 1	Summary of CHEC Appendix A's	page 8

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

Appendix 2	Centre Wellington	page 9
Appendix 3	COLLUS Power	page 38
Appendix 4	Grand Valley	page 72
Appendix 5	Innisfil Hydro	page 92
Appendix 6	Lakefront Utilities	page 114
Appendix 7	Lakeland Power Distribution	page 137
Appendix 8	Midland Power Utility	page 151
Appendix 9	Orangeville Hydro Ltd	page 187
Appendix 10	Orillia Power Distribution	page 215
Appendix 11	Parry Sound Power	page 246
Appendix 12	Rideau St. Lawrence	page 282
Appendix 13	Wasaga Distribution Inc.	page 317
Appendix 14	Wellington North Power	page 344
Appendix 15	West Coast Huron Energy	page 371
Appendix 16	Westario Power	page 399
Appendix 17	Woodstock Hydro Services	page 459

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Parry Sound Power
RP-2004-0203\ED- 2003-0006
2007 Conservation and Demand Annual Report
Third Tranche Funding

Introduction:
Parry Sound Power is pleased to submit our 2007 Annual Report on the third tranche funding. Attached to this report is Appendix A – Evaluation of the CDM Plan, along with Appendix B – Discussion of the Program for the individual programs and Appendix C – Program Portfolio Totals. Parry Sound Power has submitted its conservation and demand management plan with the CHEC Group (Cornerstone Hydro Electric Concepts) and has received a final order dated February 8, 2005 approving the spending.

This report covers the investment of $93,000 in 2007 by Parry Sound Power in conservation and demand management. A portion of the funds remain for investment in 2008.

Evaluation of the CDM Plan:

The 2007 CDM activity resulted in a positive TRC of $57,410 and a lifecycle kWh savings of 1,194,100. The program in addition to continuing to foster a conservation culture included technology exchange that result in reduced kWh consumption as noted.

The investment of the third tranche funding to date has resulted in a TRC of $152,660 and a lifecycle kWh savings of 6,030,500. In addition to the resulting savings the program helped to foster the conservation culture by making approximately 8,800 customer contacts over the lifetime of the program. This number is understated as incidental contacts from promotion materials are not accounted for. The third tranche program funding provided to Parry Sound Power and all LDCs across the province have assisted with raising the awareness of conservation and helped position the LDCs and OPA for continued support of conservation initiatives.

The summary of the programs are outlined in the Appendices attached to this report.

Discussion of Programs:

The 2007 program focused on encouraging partners to implement energy savings. The conversion of traffic lights to LED technology saw nine intersections converted. The LED technology, while saving electrical energy, also benefits the municipalities by reducing the maintenance cost.

To facilitate the reduction of energy use, in social housing, Parry Sound Power worked with the Social Housing Agency to replace refrigerators and in-suit lighting. This project demonstrates to the agency the potential for savings and encourages the continued expenditure on energy efficient equipment.

Parry Sound also worked with a senior's home to install window covering to reduce the amount of solar gain. The benefit to this project, in addition to the reduced cooling energy, was improved comfort in the area. For the purpose of the evaluation only the reduced cooling load was taken as a benefit.

The school system also partnered with Parry Sound Power in the delivery of a school program. The Dearness Environmental Society was contracted to deliver curriculum appropriate programming to grade 5 and 9 students. To augment the Dearness Program, Kill-A-Watt meters were provided for each classroom along with CFLs to support the implementation of conservation measures.

Parry Sound Power utilized a number of technology exchanges to promote the implementation of conservation. The development of conservation bags or promotional kits, allowed easy sharing of conservation measures with customers when opportunities arose throughout the year.

Lessons Learned:

The 2007 program, especially the school program, clearly indicates that local partnerships can result in good contact and delivery of savings for conservation programs. In addition the success of the OPA programs in 2007 (results not included in this report for 2007) illustrates how the leverage of LDC relationships in 2006 has assisted the OPA to establish an identity in the conservation field in Ontario.

Access to commercial and industrial customers continues to be challenging. The small commercial workshop held was not well attended by commercial and small industrial customers. Holding the workshop in the area, providing sufficient notice and program outline was not sufficient to garner higher attendance. The approach to industrial and commercial require further consideration.

Working closely with partners has proved to be both successful and rewarding. The additional contact provides a better understanding of the issues and the impacts that the savings can have on the activity of the partner.

Conclusions:

The third tranche funding continues to provide both kWh savings and helps to develop the "Conservation Culture" in Ontario. Parry Sound Power will be completing its CDM Plan in 2008

Yours truly,

Calvin Epps

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
Net TRC value ($):	*152,660.91*	**$ 57,410**	**$ 2,622**	**$ -**	**$ 54,788**	**$ -**	**$ -**	**$ -**		**$ -**	**$ -**
Benefit to cost ratio:	*4.70*	3.72	1.11	0.00	-17.26	0.00	0.00	0.00		0.00	0.00
Number of participants or units delivered:	*8,795*	*4,972*	3,696	0	1,276	0	0	0		0	0
Lifecycle (kWh) Savings:	*6,093,160.99*	1,194,135	424,233	0	769,902	0	0	0		0	0
Report Year Total kWh saved (kWh):	*934,465.88*	260,769	87,620	1	173,148	0	0	0		0	0
Total peak demand saved (kW):		54	20	0	34	0	0	0		0	0
Total kWh saved as a percentage of total kWh delivered (%):	*0.98%*	0.27%	0.24%	0.00%	0.95%	0.00%	0.00%	0.00%		0.00%	0.00%
Peak kW saved as a percentage of LDC peak kW load (%):		0.28%	0.10%	0.00%	0.18%	0.00%	0.00%	0.00%		0.00%	0.00%
[1] *Report Year Gross C&DM expenditures ($):*	*123,093.98*	$ 93,307	$ 33,080	$ -	$ 41,841	$ -	$ -	$ -	$ 18,385	$ -	$ -
[2] *Expenditures per KWh saved ($/kWh):*	$ 0.02	$ 0.08	$ 0.08	$ -	$ 0.05	$ -	$ -	$ -		$ -	$ -
[3] *Expenditures per KW saved ($/kW):*		$ 1,734.80	$ 1,651.84	$ -	$ 1,239.41	$ -	$ -	$ -		$ -	$ -

Utility discount rate (%):	8.56

[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 ($)
Spring Every Kilowatt Counts (EKC) I	$ -	$ -	$ -	0.00	0	0	0	$ -
Fall Every Kilowatt Counts (EKC) Pro	$ -	$ -	$ -	0.00	0	0	0	$ 1
Website	$ -	$ -	$ -	0.00	0	0	0	$ -
Education and Promotion	$ -	$ 4,160	-$ 4,160	0.00	0	0	0	$ 4,160
Coupon Program 2005	$ -	$ -	$ -	0.00	0	0	0	$ -
Energy Managemnt Audit Program	$ -	$ -	$ -	0.00	0	0	0	$ -
Low Income Retrofits	$ 12,982	$ 4,496	$ 8,487	2.89	24,646	207,081	6	$ 13,496
Appliance Saturation Survey	$ -	$ -	$ -	0.00	0	0	0	$ -
BlueLine Monitor Program	$ -	$ 3,604	-$ 3,604	0.00	0	0	0	$ 3,604
Promotional Kits	$ 9,251	$ 7,890	$ 1,361	1.17	42,386	146,160	9	$ 7,872
Light Bulb Giveaway	$ 4,493	$ 3,956	$ 538	1.14	20,588	70,992	4	$ 3,947
Name of Program J			$ -	0.00				
***Totals App. B - Residential**	$ 26,727	$ 24,105	$ 2,622	1.11	87,620	424,233	20	$ 33,080
Residential Indirect Costs not attributable to any specific program →		$ -			*Total Residential kWh Delivered in 2007*		36,288,751.00	
Total Residential TRC Costs		$ 24,105				System Peak in 2007	19,170	
****Totals TRC - Residential**	**$ 26,727**	**$ 24,105**	**$ 2,622**	**1.11**				

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*		18,131,766.00	
Total TRC Costs		$ -				System Peak in 2007	19,170	
****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 ($)
School Program - Dearness Environn	$ 13,480	$ 11,867	$ 1,613	1.14	61,763	212,976	13	$ 11,842
Conversion of Traffic Lights - complet	$ 28,070	-$ 23,868	$ 51,938	-1.18	88,300	441,501	10	$ 20,000
Window Treatment Film	$ 10,237	$ 9,000	$ 1,237	1.14	23,085	115,425	10	$ 10,000
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 -**	$ 51,788	-$ 3,001	$ 54,788	-17.26	173,148	769,902	34	$ 41,841
Institutional Indirect Costs not attributable to any specific program →					*Total Institutional kWh Delivered in 2007*		18,131,766.00	
Total TRC Costs		-$ 3,001				System Peak in 2007	19,170	
****Totals TRC - Institutional**	**$ 51,788**	**-$ 3,001**	**$ 54,788**	**-17.26**				

4. Industrial Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
Name of Program A			$ -	0.00				
Name of Prorgam 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*			39,627,188.00	
Total TRC Costs		$ -			System Peak in 2007		19,170	
****Totals TRC - Industrial**	**$ -**	**$ -**	**$ -**	**0.00**				

5. Agricultural Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/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	$ -
Agricultural Indirect Costs not attributable to any specific program	→			*Total Agricultural kWh Delivered in 2007*				
Total TRC Costs		$ -			System Peak in 2007		19,170	
****Totals TRC - Agricultural**	**$ -**	**$ -**	**$ -**	**0.00**				

6. LDC System Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/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	$ -
LDC System Indirect Costs not attributable to any specific program	→			*Total Losses kWh Delivered in 2007*				
Total TRC Costs		$ -			System Peak in 2007		19,170	
****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 ($)	→	18,385

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 -**	$ -	$ -	$ -	0.00	0	0	0	$ -
Other #1 Indirect Costs not attributable to any specific program	→			*Total Other kWh Delivered in 2007*				
Total TRC Costs		$ -			System Peak in 2007		19,170	
****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 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		19,170	
****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**	$ 78,515	$ 21,104	$ 57,410	3.72	$ 260,769	$ 1,194,135	$ 54	$ 93,307
*Any **other** Indirect Costs not attributable to any specific program*	→			*Total kWh Delivered in 2007*		94,983,408.00		
TOTAL ALL LDC COSTS		$ 21,104			System Peak in 2007		19,170	
****LDC' PORTFOLIO TRC**	$ 78,515	$ 21,104	$ 57,410	3.72				
				Total kWh Delivered 05/06				

* 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:** Spring Every Kilowatt Counts (EKC) Program

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

In partnership with the OPA provided customer incentives for energy efficient technologies. Involved both direct mail and in-store promotion along with local advertising and support.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
Base case technology:	0	0.00	0.00	0.00	0.00	0.00
Efficient technology:	CFLs	Ceiling Fan	Timers	Progr. Thermostats	0.00	0.00
Number of participants or units delivered:	0.00	0.00	0.00	0.00	0.00	0.00
Measure life (years):	4.00	20.00	20.00	18.00	0.00	0.00
Number of participants or units 2005/2006	722	6	9	7		
Number of Participants or units delivered life-to-date	722.00	6.00	9.00	7.00	0.00	0.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
TRC Benefits ($):		$ 20,028.87	$ 20,028.87
Measure's Costs ($):			
Utility program cost (less incentives):	$ -		$ -
Incremental Measure Costs (Equipment Costs)		$ 2,270.00	$ 2,270.00
Total TRC costs:	$ -	$ 2,270.00	$ 2,270.00
Net TRC (in year CDN $):	$0.00	$ 17,758.87	$ 17,758.87
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 8.82	$ 8.82

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

Cumulative Results:

Conservation Programs:

Demand savings (kW): *Summer* 0.00 — Report Winter Demand (kW)

Winter 0.00 — 0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	339930	71223

2005 Lifecycle	*2005 Annual*
339930	71223

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 begining of year (%):

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

			2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental cap*	$ -		$ -
	Incremental O&	$ -		$ -
	Incentive:	$ -		$ -
	Total:	$ -	$ -	$ -
Utility indirect costs ($):	*Incremental capi*	$ -		$ -
	Incremental O&M	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	-	-

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 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:** Fall Every Kilowatt Counts (EKC) Program

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

In partnership with the OPA provided customer incentives for energy efficient technologies. Involved both direct mail and in-store promotion along with local advertising and support.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
Base case technology:	0	0.00	0.00	0.00	0.00	0.00
Efficient technology:	CFLs	LED Xmas Lights	Dimmers	Progr. Thermostats	Motion Censor	0.00
Number of participants or units delivered:	0.00	0.00	0.00	0.00	0.00	
Measure life (years):	4.00	30.00	10.00	18.00	20.00	0.00
Number of participants or units 2005/2006	1236	1198	12	34	2	
Number of Participants or units delivered life-to-date	1,236.00	1,198.00	12.00	34.00	2.00	0.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 82,564.30	$ 82,564.30
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ -	$ 1.00	$ 1.00
Participant cost:	$ -		$ -
Total TRC costs:	$ -	$ 1.00	$ 1.00
Net TRC (in year CDN $):	$0.00	$ 82,563.30	$ 82,563.30
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 82,564.30	$ 82,564.30

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	0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	4295050	559907
			2005 Lifecycle	*2005 Annual*
			4295050	559907

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

Line Loss Reduction Programs:
Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:
Amount of DG installed (kW):
Energy generated (kWh):
Peak energy generated (kWh):
Fuel type:

Other Programs (specify):
Metric (specify):

D. **Program Costs*:**

			2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capita*	$ -		$ -
	Incremental O&M:	$ 1.00		$ 1.00
	Incentive:	$ -		$ -
	Total:	$ 1.00	$ -	$ 1.00
Utility indirect costs ($):	*Incremental capital.*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 1.00	-	1.00

E. Comments:

Total direct mail coupons were 245; in-store coupons total 3681

[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 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:** Website

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

Shared Costing on website development and CDM co-ordinator, these costs are shared with 16 member group of LDCs (CHEC) The website development started in 2005 online in 2006, this site carries several links to various CDM programs thoughts and plans for customers at all levels

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	0	0
Measure life (years):	0.00		
Number of participants or units 05/06	1		
Number of Participants or units delivered life-to-date	1.00		

B. **TRC Results:**

	Reporting Year	2005 TRC Results	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -	$ 4,839.87	$ 4,839.87
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ -	$ 4,839.87	$ 4,839.87
Net TRC (in year CDN $):	$ -	-$ 4,839.87	-$ 4,839.87
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 Winter Demand (kW)	
	Winter	0.00	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0
			2005 Lifecycle	*2005 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 begining of year (%):
Distribution system power factor at end of year (%):

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):
Metric (specify):

D. **Program Costs*:**

		Reporting Year	2005 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -	$ 4,839.87	$ 4,839.87
	Incentive:	$ -		$ -
	Total:	$ -	$ 4,839.87	$ 4,839.87
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	4,839.87	4,839.87

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

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):

Program design and delivery to all levels of customers. The overall process involves newspaper ads, flyers, etc aimed at educating customers on CDM activities an benefits, to encourage interaction at home and work. This program started in 2005 and carried on during the third tranche period. In 2007 energy saving tips were published monthly with 2500 customers being reached.

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:	2,500.00	0	0
Measure life (years):	0.00		
Number of participants or units 2005/2006	1		
Number of Participants or units delivered life-to-date	2,501.00		

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 4,160.00	$ 5,948.30	$ 10,108.30
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ 4,160.00	$ 5,948.30	$ 10,108.30
Net TRC (in year CDN $):	-$ 4,160.00	-$ 5,948.30	-$ 10,108.30
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 Winter Demand (kW)	
	Winter	0.00	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0
			2005 Lifecycle	*2005 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 begining of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

Peak load savings (kW):		
	lifecycle	*in year*

Energy savngs (kWh):

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 4,160.00	$ 5,948.30	$ 10,108.30
	Incentive:	$ -		$ -
	Total:	$ 4,160.00	$ 5,948.30	$ 10,108.30
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 4,160.00	5,948.30	10,108.30

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Coupon Program 2005

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

Coupon offering a range of rebates aimed at residential customers in 2005

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered:		0	0
Measure life (years):	0.00		
Number of participants or units 2005	293		
Number of Participants or units delivered life-to-date	293.00		

B.

TRC Results:	**Reporting Year**	**2005 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 9,293.00	$ 9,293.00
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -	$ 598.31	$ 598.31
Incremental Measure Costs (Equipment Costs)	$ -	$ 1,016.00	$ 1,016.00
Total TRC costs:	$ -	$ 1,614.31	$ 1,614.31
Net TRC (in year CDN $):	$ -	$ 7,678.69	$ 7,678.69
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 5.76	$ 5.76

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	0.00	Report Winter Demand (kW)	
	Winter	0.00	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	201406	24402
			2005 Lifecycle	*2005 Annual*
			201406	24402

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

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

		Reporting Year	2005 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -	$ 598.31	$ 598.31
	Incentive:	$ -	$ 799.00	$ 799.00
	Total:	$ -	$ 1,397.31	$ 1,397.31
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	1,397.31	1,397.31

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Energy Managemnt Audit Program

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

Parry Sound Power shared in an audit for social housing development seeking energy conservation savings. This program was run in 2005 with follow up in 2007. Low Income Retrofit project run in 2007 a result of the relationship developed.

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	0	0
Measure life (years):	0.00		
Number of participants or units 2005	1		
Number of Participants or units delivered life-to-date	1.00		

B.

TRC Results:	**Reporting Year**	**2005 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -	$ 900.00	$ 900.00
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ -	$ 900.00	$ 900.00
Net TRC (in year CDN $):	$ -	-$ 900.00	-$ 900.00
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 Winter Demand (kW)	
	Winter	0.00	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0
			2005 Lifecycle	*2005 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 begining of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	2005 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -	$ 900.00	$ 900.00
	Incentive:	$ -		$ -
	Total:	$ -	$ 900.00	$ 900.00
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	900.00	900.00

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Low Income Retrofits

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

The project involved the replacement of existing refrigerators with energy efficient units and the conversion of lighting in the units to more energy efficient technology. The project built on the existing relationship developed through the audit program run previously.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4
Base case technology:	Residential T12's	Refrigerator over 10 Years Old	0.00	0.00
Efficient technology:	Residential T8's	New Energy Efficient Refrigerator	0.00	0.00
Number of participants or units delivered:	18.00	18.00	0.00	0.00
Measure life (years):	5.00	9.00	0.00	0.00
Number of participants/units 05&06				
Number of Participants or units delivered life-to-date	18.00	18.00	0.00	0.00

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	*$ 12,982.36*		$ 12,982.36
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ -		$ -
Participant cost:	$ 4,495.50		$ 4,495.50
Total TRC costs:	$ 4,495.50	$ -	$ 4,495.50
Net TRC (in year CDN $):	$8,486.86	$ -	$ 8,486.86
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	2.89	#DIV/0!	$ 2.89

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

Cumulative Results:

Conservation Programs:

			Report Summer Demand (kW)
Demand savings (kW):	*Summer*	6.11	6.11
	Winter	6.45	

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*207,081.36*	24,646.03	207081.36	24646.032
			Total 05&06 Lifecycle	*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 begining of year (%):
Distribution system power factor at end of year (%):

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

			Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 13,495.68		$ 13,495.68
	Incentive:	$ -		$ -
	Total:	$ 13,495.68	$ -	$ 13,495.68
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 13,495.68	-	13,495.68

E. Comments:

T8 Measures adjusted to account for residential hours of operation allowing the commercial measure to be utilized. On the fridge program estimated the original unit consumption at 900 kWh annually. New unit rated at 406 kWh.

[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 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 Meter Development

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

Participate in a group technology evaluations of smart meters, metering system , MDMR, AMI etc. This process will ensure vendors approvals and criteria set by the governing authorities are met. All data will be tested and verified by the group

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	0	0
Measure life (years):	0.00		
Number of participants or units 2005	0		
Number of Participants or units delivered life-to-date	1.00		

B.

TRC Results:	**Reporting Year**	**2005 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 18,385.31	$ 11,649.10	$ 30,034.41
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ 18,385.31	$ 11,649.10	$ 30,034.41
Net TRC (in year CDN $):	-$ 18,385.31	-$ 11,649.10	-$ 30,034.41
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 Winter Demand (kW)	
	Winter	0.00	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0
			2005 Lifecycle	*2005 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 begining of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

		Reporting Year	2005 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 18,385.31	$ 11,649.10	$ 30,034.41
	Incentive:	$ -		$ -
	Total:	$ 18,385.31	$ 11,649.10	$ 30,034.41
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 18,385.31	11,649.10	30,034.41

E. Assumptions & Comments:

Adjustment required on the Net TRC due to change in reporting the Smart Meters. Adjusted up by 5128 which was the 2005 expenditures.

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Appliance Saturation Survey

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

Parry Sound power undertook an appliance saturation survey along with the other members of the CHEC group, this allows us to determine our customer base appliance setups and future power needs

Measure(s):

	Measure 1	easure 2 (if applicab	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	0		
Number of participants or units delivered:		0	0
Measure life (years):	0.00		
Number of participants or units 2005/2006	1		
Number of Participants or units delivered life-to-date	1.00		

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -	$ 4,000.00	$ 4,000.00
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ -	$ 4,000.00	$ 4,000.00
Net TRC (in year CDN $):	$ -	-$ 4,000.00	-$ 4,000.00
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 Winter Demand (kW)	
	Winter	0.00	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0
			2005 Lifecycle	*2005 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 begining of year (%):	
Distribution system power factor at end of year (%):	

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

		Reporting Year	2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -	$ 4,000.00	$ 4,000.00
	Incentive:	$ -		$ -
	Total:	$ -	$ 4,000.00	$ 4,000.00
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	4,000.00	4,000.00

E. Assumptions & Comments:

Cost adustment

[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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** BlueLine Monitor Program

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

Loan to customers a BlueLine Load Monitor for monitoring total residential load. The program loans a monitor for a month period to encourage the customer to learn about their consumption and take steps to reduce.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4
Base case technology:	0	0.00	0.00	0.00
Efficient technology:	0	0.00	0.00	0.00
Number of participants or units delivered:	120.00	0.00	0.00	0.00
Measure life (years):	0.00	0.00	0.00	0.00
Number of participants/units 05&06				
Number of Participants or units delivered life-to-date	120.00	0.00	0.00	0.00

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -		$ -
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ 3,604.28		$ 3,604.28
Participant cost:	$ -		$ -
Total TRC costs:	$ 3,604.28	$ -	$ 3,604.28
Net TRC (in year CDN $):	-$3,604.28	$ -	-$ 3,604.28
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	#DIV/0!	$ -

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	0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0
			Total 05&06 Lifecycle	*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 begining of year (%):
Distribution system power factor at end of year (%):

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	in year
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

			Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 3,604.28		$ 3,604.28
	Incentive:	$ -		$ -
	Total:	$ 3,604.28	$ -	$ 3,604.28
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 3,604.28	-	3,604.28

E. 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 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:** School Program - Dearness Environmental Society

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

Sponsored conservation energy support for the Grade 5 and 9 curriculum. Contracted with Dearness Environmental Society to deliver their program to interested schools, both primary and secondary. As part of the program provided Kill-A-Watt Meters for each classroom and CFL packs for each student participating in the program.

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:	1,020.00		
Measure life (months):	41.38		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	1,020.00		

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ 13,480.22		$ 13,480.22
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 9,801.75		$ 9,801.75
Incremental Measure Costs (Equipment Costs)	$ 2,065.50		$ 2,065.50
Total TRC costs:	$ 11,867.25	$ -	$ 11,867.25
Net TRC (in year CDN $):	$ 1,612.97	$ -	$ 1,612.97
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	1.14	#DIV/0!	$ 1.14

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	0.00	Report Summer Demand (kW)
	Winter	13.31	0.00
	lifecycle	*in year*	*Cumulative Lifecycle* / *Cumulative Annual Savings*
Energy saved (kWh):	*212,976.00*	61,763.04	212976 / 61763.04
			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 begining of year (%):

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 11,841.75		$ 11,841.75
	Incentive:	$ -		$ -
	Total:	$ 11,841.75	$ -	$ 11,841.75
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 11,841.75	-	11,841.75

E. Assumptions & Comments:

The Dearness Environmental Society Coservation Program was a multi-level program. The program provided support materials, training session, supply teachers (during training session) and in-school support. The program also provided training to maintenance staff to assist them with understanding conservation and to help the students save energy. Part of the program is for the students to make changes in the school to support energy conservation. The outcomes of these efforts will only be seen towards the end of the 2007/2008 school year. The schools were very pleased with the program and the support they received from Dearness staff.

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 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:** Promotional Kits

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

Prepared energy efficiency kits for general use with customers and other programs. Kit contained CFL light bulb, outlet seals, outlet safety plugs and power bar. Kits were used when making contact with customers to support the energy conservation message by providing simple tools for implementation. Kits were provided in a conservation bag that could be used for other purposes after the measures were applied.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	Energy Efficiency Kit		
Number of participants or units delivered:	700.00		
Measure life (months):	41.38		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	700.00		

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	*$ 9,251.13*		$ 9,251.13
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 6,472.14		$ 6,472.14
Incremental Measure Costs (Equipment Costs)	$ 1,417.50		$ 1,417.50
Total TRC costs:	$ 7,889.64	$ -	$ 7,889.64
Net TRC (in year CDN $):	$ 1,361.49	$ -	$ 1,361.49
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	1.17	#DIV/0!	$ 1.17

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):

		Report Summer Demand (kW)
Summer	0.00	
Winter	9.14	0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*146,160.00*	42,386.40	146160	42386.4
			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 begining of year (%):

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 7,872.14		$ 7,872.14
	Incentive:	$ -		$ -
	Total:	$ 7,872.14	$ -	$ 7,872.14
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 7,872.14	-	7,872.14

E. Assumptions & Comments:

The Dearness Environmental Society Coservation Program was a multi-level program. The program provided support materials, training session, supply teachers (during training session) and in-school support. The program also provided training to maintenance staff to assist them with understanding conservation and to help the students save energy. Part of the program is for the students to make changes in the school to support energy conservation. The outcomes of these efforts will only be seen towards the end of the 2007/2008 school year. The schools were very pleased with the program and the support they received from Dearness staff.

[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 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:** Light Bulb Giveaway

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

Parry Sound Power undertook a CFL bulb giveaway progrm to help reduce coustomer consumption and educate the overall group in conservation ideas and trends. Provided units during 2006 and 2007

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	40 Watt Incandescent		
Efficient technology:	13 W CFL		
Number of participants or units delivered:	340.00		
Measure life (months):	41.38		
Number of participants or units 05/06	300		
Number of Participants or units delivered life-to-date	640.00		

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	*$ 4,493.41*	$ 3,545.31	$ 8,038.72
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 3,267.00	$ 607.50	$ 3,874.50
Incremental Measure Costs (Equipment Costs)	$ 688.50		$ 688.50
Total TRC costs:	$ 3,955.50	$ 607.50	$ 4,563.00
Net TRC (in year CDN $):	$ 537.91	$ 2,937.81	$ 3,475.72
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	1.14	$ 5.84	$ 1.76

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

Conservation Programs:

			Cumulative Results:	
Demand savings (kW):	*Summer*	0.00	Report Summer Demand (kW)	
	Winter	4.44	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*70,992.00*	20,587.68	133632	38753.28
			Total 05&06 Lifecycle	*Total 05&06 Annual*
			62640	18165.6

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 begining of year (%):

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 3,947.00	$ 1,053.00	$ 5,000.00
	Incentive:	$ -		$ -
	Total:	$ 3,947.00	$ 1,053.00	$ 5,000.00
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 3,947.00	1,053.00	5,000.00

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 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:** Conversion of Traffic Lights - complete intersections

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

An incentive was offered to municipalities for the change out of incandescent traffic lights. Nine intersections were changed to LEDs. In addition to the energy savings the additional savings which impacts on the discounted measures cost is the avoided cost of labour to change the incandescent lights.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Incandescent traffic control bulbs		
Efficient technology:	LED Bulbs		
Number of participants or units delivered:	255.00		
Measure life (months):	60.00		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	255.00		

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ 28,069.99		$ 28,069.99
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -		$ -
Incremental Measure Costs (Equipment Costs)	-$ 23,868.00		-$ 23,868.00
Total TRC costs:	-$ 23,868.00	$ -	-$ 23,868.00
Net TRC (in year CDN $):	$ 51,937.99	$ -	$ 51,937.99
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	-1.18	#DIV/0!	-$ 1.18

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

Conservation Programs:

			Cumulative Results:	
Demand savings (kW):	*Summer*	10.10	Report Summer Demand (kW)	
	Winter	10.10	10.10	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*441,500.63*	88,300.13	441500.625	88300.125
			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 begining of year (%):
Distribution system power factor at end of year (%):

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D.

Program Costs*:		**Reporting Year**	**Total 05&06 Costs**	**Cumlative Life to Date**
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
0	*Incremental O&M:*	$ -		$ -
	Incentive:	$ 19,999.65		$ 19,999.65
	Total:	$ 19,999.65	$ -	$ 19,999.65
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 19,999.65	-	19,999.65

E. Assumptions & Comments:

Incremental measures cost takes into account the avoided cost of relamping the incandescent.

[1] times the net present value per unit benefit specified in the TRC Guide.

[2] 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.

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)			ulder (April, May, Oct., N		
Price Period	On Peak	Mid Peak	Off Peak	On Peak	Mid Peak	Off Peak	Mid Peak	Off Peak	
Time of Day	7 am to 11 am 5 pm to 8 pm	11 am to 5 pm 8 pm to 10 pm	10 pm to 7 am All weekend hrs.	11pm to 5 pm	7 am to 11 5 pm to 10 pm	10 pm to 7 All weekend hrs.	7am to 10	10 pm to 7 am All weekend hrs.	
# of Hours	602	688	1614	522	783	1623	1305	1623	8760
% of Annual Hours	6.87%	7.85%	18.42%	5.96%	8.94%	18.53%	14.90%	18.53%	100.00%
Consistent Load **384.75**	26.44	30.22	70.89	22.93	34.39	71.28	57.32	71.28	384.75

Source: Avoided Generation Cost Appendix C, OEB TRC Guide

Total load reduction is 120,783 kWh
Total lamps 255
kWh per lamp 473.7

Discounted Cost of Measure

		Incandescent Cost		LED
Cost of Bulb	$	5.00	$	81.00
Cost to install	$	40.00	$	40.00
Years between installs		1		5
Cost of Replacements over time	$	225.00	$	121.00
Discounted Measure Cost	$	(104.00)		

Cost of lamps 255 X $81 = $32238

Contract to install 9 intersections	$	51,600.00
Minus lamps (already added in TRC)	-$	20,600.00
	$	31,000.00

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Window Treatment Film

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

Install window treatment film to reduce solar gain in the summer time on south facing windows. Installation at Belvedere Heights Seniors Residence that operates 24x7. Large south facing windows that result in signficant solar gain.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	No film		
Efficient technology:	Treatment Film Installed - South facing		
Number of participants or units delivered:	1.00	0	0
Measure life (years):	5.00		
Number of participants or units 05/06			
Number of Participants or units delivered life-to-date	1.00		

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ 10,237.47	$ -	$ 10,237.47
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -		$ -
Incremental Measure Costs (Equipment Costs)	$ 9,000.00		$ 9,000.00
Total TRC costs:	$ 9,000.00	$ -	$ 9,000.00
Net TRC (in year CDN $):	$ 1,237.47	$ -	$ 1,237.47
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	1.14	#DIV/0!	$ 1.14

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	10.35	Report Winter Demand (kW)
	Winter	0.00	0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*115,425.00*	23,085.00	115425	23085
			2005 Lifecycle	*2005 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 begining of year (%):
Distribution system power factor at end of year (%):

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D.	**Program Costs*:**		**Reporting Year**	**2005 Costs**	**Cumlative Life to Date**
	Utility direct costs ($):	*Incremental capital:*	$ -		$ -
		Incremental O&M:	$ 10,000.00		$ 10,000.00
		Incentive:	$ -		$ -
		Total:	$ 10,000.00	$ -	$ 10,000.00
	Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
		Incremental O&M:	$ -		$ -
		Total:	$ -	$ -	$ -
	Total Utility Cost of Program		$ 10,000.00	-	10,000.00

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 o 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

The cost of installation has been assumed at $10,000 for 1800 square feet
The lifetime of the installation has been assumed as 5 years
Assumed benefits for June, July, August

The resulting TRC for the installatio	**$**	**1,374.97**

Square Foot Reduction of Thermal G	**BTU/hr/sqft**	
BTU Thermal Gain No Window Treat		**240**
BTU Thermal Gain With Window Tre		**53**
Reduced Thermal Gain With Film		**187**

Assumptions for Thermal Gain

# of hours per day	**5**
# of days per week	**4**
# of months	**4.5**

For thermal gain in summer assume 3 months
Do not take any R value in winter to offset reduced heating due to thermal gain.

# of months reduced to	**3**	
# of weeks	**13**	
Annual thermal gain reduction (over	**48,620.00**	
Total area to be treated (sq-ft)	**1800**	
Total reduced thermal gain	**87,516,000.00**	**BTU**
Converted to kWh (1BTU = 0.000293	**25,648.40**	

Reduced Energy Consumption for c		**25,648.40**

Reduced consumption to be split over the day.

Distribution of kWh on peak and off peak

On Peak months are June to September
On peak time is 11am to 5 pm or 6 hours per day
Mid Peak is 5 pm to 10 pm or 5 hours per day
Mid Peak is 7 am to 11 am or 4 hours per day
Off Peak is 10 pm to 7 am or 9 hours per day
Off Peak all day on weekends or 24 hours

	Hours	**%**
Weekly on Peak	**30**	**18%**
Weekly Mid Peak	**45**	**27%**
Off Peak	**93**	**55%**

Distribution of kWh savings over 3 months		
On Peak	**$**	**4,580.07**
Mid Peak	**$**	**6,870.11**
Off Peak	**$**	**14,198.22**

Total kWh	**25,648.40**
Demand Reduction on Peak	
# of On Peak kWh for 3 months	**4,580.07**
# of On Peak Hours for 3 months	**390**
Average kW	**11.74**