



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:

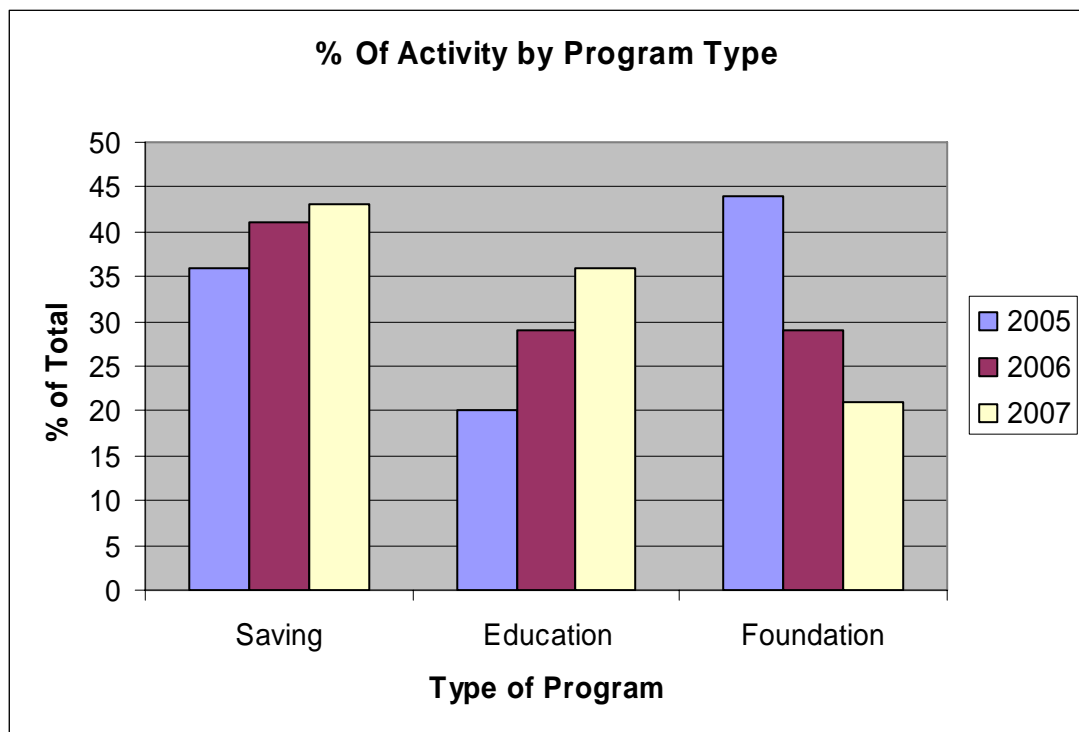
- Savings: Delivery of energy saving products or processes: coupons, rebates, free products, etc.
- Education: Providing general energy management information through such activities as: website development, workshops, brochures, school programs, etc,
- Foundation: Preparatory work for future programs 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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**West Coast Huron Energy (Goderich Hydro)
Conservation & Demand Side Management
Annual Report**

March 14, 2008

Prepared By: Jennette Walker

West Coast Huron Energy (Goderich Hydro) Conservation & Demand Side Management Annual Report

Introduction

This report – filed on March 14, 2008 – is a summary of West Coast Huron Energy's (Goderich Hydro) Conservation and Demand Side Management (CDM) projects for the period of January 1, 2007 to December 31, 2007. This time period represents the third year of Goderich Hydro's three year CDM plan.

In August 2007, Goderich Hydro applied and received an extension to the CDM funding. Goderich Hydro has until April 30, 2008 to spend the program funds. Due to a number of factors, including a change in Goderich Hydro CDM managers, less was accomplished than planned in 2007.

Evaluation

Conservation Webpage

The Goderich Hydro website was updated in the hopes more customers would visit the site to read the energy conservation tips and about the CDM programs. The updated site has received some good feedback.

Conservation Education

In 2007, Goderich Hydro participates in a number of energy conservation events. Therefore, display boards were purchase to display energy conservation material.

“Kill A Watt” meters were also purchased. The meter measures the energy use of appliances in the customer's home. This allows the customer to figure out which appliances are costly them the most money. They can therefore decide if the appliance is necessary or replace it with a more efficient model. The meters are for rent at the hydro office, the deposit is return to the customer when the meter is return in good condition, in a timely manner, and with the instructions.

Light Bulb Give Away

Goderich Hydro gave away CFL light bulbs at a two public events. The give away was very popular. The TRC benefit from this program was \$11531.27 with a Life-to-date TRC benefit of \$23866.27.

EnergyStar Window Rebate Program

The EnergyStar Rebate program offers a \$50 rebate to hydro customers who purchase new EnergyStar windows. It encourages people to ensure their new windows meet

standards required to save energy. This program ran in 2006, it was well utilized. There was some money left in 2007 and therefore a few more rebates were provided to interest customers who replace their windows.

LED Exit Light Retrofits

New LED Exit signs were purchased for use in all Municipal buildings and will be installed as the older style signs burn out. The TRC benefit is estimated to be \$1570.66 with a Life-to-date Benefit of \$9175.10. Goderich Hydro thought the municipality could try to lead by example and promote this type of LED signage to commercial customers. Goderich Hydro has already upgraded their exit signs to the LED style.

EnergyStar Air Conditioner & Dehumidifier Rebate Program

This rebate program offer \$50 rebates to customers who purchase EnergyStar air conditioning or dehumidifier units. This program was not as well used by customers as other the rebate programs. The a/c units provided a TRC Benefit of \$401.15, the benefit would have been higher but the EnergyStar dehumidifier was not in the list of technologies therefore the benefit could not be calculated.

Lessons Learned

Conservation Webpage

The upgrade webpage seems to be used more frequently.

Conservation Education

People seem to enjoy the hydro displays at public events; we always seem to have positive feedback. In 2008, the “Kill A Watt” meter rental will continue to be promoted.

Light Bulb Give Away

Customers always really enjoy the CFL giveaways, these events are well attended.

EnergyStar Window Rebate Program

This program is now complete it was very popular and reached a number of hydro customers.

EnergyStar Air Conditioner & Dehumidifier Rebate Program

This program was not as popular as the window rebate program.

Street Light Retrofit

Goderich Hydro had planned to install LED street lights on one of our street that had been monitor for hydro use in 2006. It was planned that the cost saving would be analyzed and over time the other street lights would be upgrade.

However, after consulting with two different lighting companies we found that produce could not be guaranteed or provide in a timely manner. Goderich Hydro also felt that money would be better spent on traffic light upgrades to LED style.

Goderich has asked the Ontario Energy Board to allow us to reallocate the funding for the Street Lighting Retrofit and the remaining funds from the EnergyStar Air Condition & Dehumidifier and Residential Energy Efficient Rebate Programs to the LED Traffic Light project. The project would be completed by the April 30, 2008 deadline and the energy saves are easily see and measured. We are currently waiting for the Energy Boards decision.

Conclusion

During year three of Goderich Hydro's CDM plan, we feel we really promoted the message of energy conservation and hope to continue this message into the future. We have a good working relationship with the municipality, and we can easily promote conservation efforts together.

We have had a number of CDM management changes over the last three years and we hope this will not be a problem in the future.

We completed a number of projects in 2007, but were still not able to spend all of the CDM funding. We have asked for and received an extension in the deadline for spending. We will have all the money spent by April 30, 2008, once we have heard back from Ontario Energy Board on the reallocation of the funds for LED traffic lights.

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>	28,719.71	\$ 8,543	\$ 7,657	\$ -	\$ 887	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Benefit to cost ratio:</i>	1.78	1.97	1.94	0.00	2.30	0.00	0.00	0.00		0.00	0.00
<i>Number of participants or units delivered:</i>	3,920	924	916	0	8	0	0	0		0	0
<i>Lifecycle (kWh) Savings:</i>	1,655,667.93	354,712	311,944	0	42,768	0	0	0		0	0
<i>Report Year Total kWh saved (kWh):</i>	128,965.11	60,637	58,933	1	1,703	0	0	0		0	0
<i>Total peak demand saved (kW):</i>		16	16	0	0	0	0	0		0	0
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>	0.065%	0.04%	0.22%								
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>		0.10%	0.10%								
¹ <i>Report Year Gross C&DM expenditures (\$):</i>	31,121.47	\$ 9,888	\$ 9,378	\$ -	\$ 510	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
² <i>Expenditures per kWh saved (\$/kWh):</i>	\$ 0.02	\$ 0.03	\$ 0.03	\$ -	\$ 0.01	\$ -	\$ -	\$ -		\$ -	\$ -
³ <i>Expenditures per kW saved (\$/kW):</i>		\$ 614.95	\$ 590.37	\$ -	\$ 2,623.87	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Utility discount rate (%):</i>	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 (\$)
EnergyStar Air Conditioner & Dehum	\$ 401	\$ 572	-\$ 171	0.70	396	4,752	0	\$ 1,360
Light Bulb Give Away	\$ 11,531	\$ 4,231	\$ 7,300	2.73	53,649	184,997	12	\$ 5,095
Name of Program C			\$ -	0.00				
Conservation Webpage	\$ -	\$ 1,188	-\$ 1,188	0.00	0	0	0	\$ 1,188
EnergyStar Window Rebate Program	\$ 3,850	\$ 900	\$ 2,950	4.28	4,888	122,195	4	\$ 500
Name of Program F			\$ -	0.00				
Residential Energy Efficiency Project	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Voluntary Black Out Day	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Conservation Education	\$ -	\$ 1,234	-\$ 1,234	0.00	0	0	0	\$ 1,234
*Totals App. B - Residential	\$ 15,783	\$ 8,126	\$ 7,657	1.94	58,933	311,944	16	\$ 9,378
Residential Indirect Costs not attributable to any specific program	\$ -	\$ -			Total Residential kWh Delivered in 2007		26775906	
Total Residential TRC Costs		\$ 8,126			Residential Peak in 2007 in kW		15,503	
**Totals TRC - Residential	\$ 15,783	\$ 8,126	\$ 7,657	1.94				

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		15531464	
Total TRC Costs		\$ -			Commercial Peak in 2007 in kW		15,503	
**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				
LED Exit Light Retrofits	\$ 1,571	\$ 684	\$ 887	2.30	1,703	42,768	0	\$ 510
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 -	\$ 1,571	\$ 684	\$ 887	2.30	1,703	42,768	0	\$ 510
Institutional Indirect Costs not attributable to any specific program	\$ -	\$ -			Total Institutional kWh Delivered in 2007			
Total TRC Costs		\$ 684			Institutional Peak in 2007 in kW		15,503	
**Totals TRC - Institutional	\$ 1,571	\$ 684	\$ 887	2.30				

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 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		82324630	
Total TRC Costs		\$ -			Industrial Peak in 2007 in kW		15,503	
**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 2006			
Total TRC Costs		\$ -			Agricultural Peak in 2006 in kW			
**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		\$ -			LDC Peak in 2007 in kW		15,503	
**Totals TRC - LDC System	\$ -	\$ -	\$ -	0.00				

7. Smart Meters Program

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

Report Year Gross C&DM Expenditures (\$) →

8. Other #1 Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Goderich Hydro CDM Portfolio Costs	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
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		\$ -			"Other" Peak in 2007 in kW		15,503	
**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 2006			
Total TRC Costs		\$ -			"Other" Peak in 2006 in kW			
**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	\$ 17,353	\$ 8,810	\$ 8,543	1.97	\$ 60,637	\$ 354,712	\$ 16	\$ 9,888
Any other Indirect Costs not attributable to any specific program →		\$ -			Total kWh Delivered in 2007		144,632,000.00	
TOTAL ALL LDC COSTS		\$ 8,810			Total Peak in 2007 in kW		15,503	
**LDC' PORTFOLIO TRC	\$ 17,353	\$ 8,810	\$ 8,543	1.97				
					Total kWh Delivered in 05/06		54,042,859.00	

* 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:** EnergyStar Air Conditioner & Dehumidifier Rebate Program

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

To provide a \$50 rebate per EnergyStar air conditioner or dehumidifier purchase

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:	5.00	14.00	0.00	0.00
Measure life (years):	12.00	0.00	0.00	0.00
Number of participants/units 05&06				
Number of Participants or units delivered life-to-date	5.00	14.00	0.00	0.00

B. TRC Results:	Reporting Year	Total 05&06 TRC Results		Life-to-date TRC Results:	
¹ TRC Benefits (\$):	\$ 401.15		\$ 401.15		
² Measure's Costs (\$):					
Utility program cost (less incentives):	\$ 410.48		\$ 410.48		
Participant cost:	\$ 162.00		\$ 162.00		
Total TRC costs:	\$ 572.48	\$ -	\$ 572.48		
Net TRC (in year CDN \$):	-\$171.33	\$ -	-\$ 171.33		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.70	#DIV/0!		\$ 0.70	

C. Results: (one or more category may apply)				Cumulative Results:	
Conservation Programs:					
Demand savings (kW):	Summer	0.41		Report Summer Demand (kW)	
	Winter	0.00		0.41	
Energy saved (kWh):	lifecycle	4,752.00	in year	Cumulative Lifecycle	Cumulative Annual Savings
			396.00	4752	396
				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 beginning of year (%):					
Distribution system power factor at end of year (%):					
Line Loss Reduction Programs:					

Peak load savings (kW): [redacted]

lifecycle in year

Energy savings (kWh): [redacted]

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

Other Programs (specify):
 Metric (specify): [redacted]

D. <u>Program Costs*:</u>			Total 05&06 Costs	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:	\$ -	[redacted]	\$ -
	Incremental O&M:	\$ 410.48	[redacted]	\$ 410.48
	Incentive:	\$ 950.00	[redacted]	\$ 950.00
	Total:	\$ 1,360.48	\$ -	\$ 1,360.48
Utility indirect costs (\$):	Incremental capital:	\$ -	[redacted]	\$ -
	Incremental O&M:	\$ -	[redacted]	\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ 1,360.48	\$ -	\$ 1,360.48

E. Comments:
 [redacted]

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:** Light Bulb Give Away

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

2005 Coupon Program offering rebates to residential customers on a range of energy efficient technologies. Final costs received in 2006. In 2007, Goderich Hydro gave away packages of CFL bulbs at two public events

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:	886.00		
Measure life (months):	41.38		
Number of participants or units 2005	329		
Number of Participants or units delivered life-to-date	1,215.00		

	Reporting Year	Total 05&06 TRC Results	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ 11,531.27	\$ 12,335.00	\$ 23,866.27
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ 2,436.76	\$ 3,433.91	\$ 5,870.67
Incremental Measure Costs (Equipment Costs)	\$ 1,794.15	\$ 1,452.00	\$ 3,246.15
Total TRC costs:	\$ 4,230.91	\$ 4,885.91	\$ 9,116.82
Net TRC (in year CDN \$):	\$ 7,300.36	\$ 7,449.09	\$ 14,749.45
 Benefit to Cost Ratio (TRC Benefits/TRC Costs):	 2.73	 2.52	 2.62

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

Conservation Programs:

			Report Summer Demand (kW)	
Demand savings (kW):	Summer	0.00	0.00	
	Winter	11.56		
Energy saved (kWh):	lifecycle	184,996.80	Cumulative Lifecycle	Cumulative Annual Savings
	in year	53,649.07	458495.8	80915.072
			Total 05&06 Lifecycle	Total 05&06 Annual
			273499	27266

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 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>	<i>Utility direct costs (\$):</i>	\$ -		\$ -
	<i>Includes Measure's Cost - ensure full cost of measure entered in TRC15</i>			
	<i>Incremental capital:</i>	\$ -		\$ -
	<i>Incremental O&M:</i>	\$ 5,094.76	\$ 2,491.91	\$ 7,586.67
	<i>Incentive:</i>	\$ -	\$ 942.00	\$ 942.00
	<i>Total:</i>	\$ 5,094.76	\$ 3,433.91	\$ 8,528.67
<i>Utility indirect costs (\$):</i>	<i>Incremental capital:</i>	\$ -		\$ -
	<i>Incremental O&M:</i>	\$ -		\$ -
	<i>Total:</i>	\$ -	\$ -	\$ -
	<i>Total Utility Cost of Program</i>	\$ 5,094.76	\$ 3,433.91	\$ 8,528.67

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 benefit specified in the TRC Guide.

² For technologies which have been deployed but for which the EEC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the EEC 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:** LED Exit Light Retrofits

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

Purchased 8 LED Exit Signs for use in municipal buildings

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
<i>Base case technology:</i>	Old Exit Sign		
<i>Efficient technology:</i>	New LED Exit Sign		
<i>Number of participants or units delivered:</i>	8.00		
<i>Measure life (years):</i>	25.11		
<i>Number of participants/units 05&06</i>	36		
<i>Number of Participants or units delivered life-to-date</i>	44.00		

B.	TRC Results:	Reporting Year	Total 05&06 TRC	Life-to-date
			Results	TRC Results:
	¹ TRC Benefits (\$):	\$ 1,570.66	\$ 7,604.44	\$ 9,175.10
	² TRC Costs (\$):			
	<i>Utility program cost (less incentives):</i>	\$ -	\$ 549.38	\$ 549.38
	<i>Incremental Measure Costs (Equipment Costs)</i>	\$ 684.00	\$ 3,078.00	\$ 3,762.00
	<i>Total TRC costs:</i>	\$ 684.00	\$ 3,627.38	\$ 4,311.38
	Net TRC (in year CDN \$):	\$ 886.66	\$ 3,977.06	\$ 4,863.72
	Benefit to Cost Ratio (TRC Benefits/TRC Costs):	2.30	\$ 2.10	\$ 2.13

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

Conservation Programs:

<i>Demand savings (kW):</i>	<i>Summer</i>	0.18	Report Summer Demand (kW)	
	<i>Winter</i>	0.19	0.18	
<i>Energy saved (kWh):</i>	<i>lifecycle</i>	42,768.00	<i>Cumulative Lifecycle</i>	<i>Cumulative Annual Savings</i>
	<i>in year</i>	1,702.94	235224	9366.192
			<i>Total 05&06 Lifecycle</i>	<i>Total 05&06 Annual</i>
			192456	7663.248
<i>Other resources saved :</i>				
	<i>Natural Gas (m3):</i>	0		
	<i>Water (l)</i>	0		

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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):

				Cumulative Life		
				Reporting Year	Total 05&06 Costs	to Date
D.	Program Costs*:					
	Utility direct costs (\$):	Incremental capital:	\$	-		\$ -
	Includes Measure's Cost - ensure full cost of measure entered in TRC/L15	Incremental O&M:	\$	510.08	\$ 549.38	\$ 1,059.46
		Incentive:	\$	-		\$ -
		Total:	\$	510.08	\$ 549.38	\$ 1,059.46
		Utility indirect costs (\$):	Incremental capital:	\$	-	
		Incremental O&M:	\$	-		\$ -
		Total:	\$	-	\$ -	\$ -
	Total Utility Cost of Program		\$	510.08	\$ 549.38	\$ 1,059.46

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:** Conservation Webpage

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

The intent of this program is to create a active conservation culture. In 2005, a website was created by to promote a culture of conservation. Costs for the website are shared by the members of the CHEC group. In 2007, Goderich Hydro updated its website to further support the conservation initiative.

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 (months):	0.00		
Number of participants or units 2005	1		
Number of Participants or units delivered life-to-date	2.00		

B.	TRC Results:	Reporting Year	Life-to-date	
			Total 05&06 TRC Results	TRC Results:
	¹ TRC Benefits (\$):	\$ -	\$ -	\$ -
	² TRC Costs (\$):			
	Utility program cost (less incentives):	\$ 1,188.00	\$ 1,622.05	\$ 2,810.05
	Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
	Total TRC costs:	\$ 1,188.00	\$ 1,622.05	\$ 2,810.05
	Net TRC (in year CDN \$):	-\$ 1,188.00	-\$ 1,622.05	-\$ 2,810.05
	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
			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.	<u>Program Costs*:</u>			
	Utility direct costs (\$):	Incremental capi \$ -		\$ -
		Incremental O&M \$ 1,188.00	\$ 1,622.05	\$ 2,810.05
		Incentive: \$ -		\$ -
	Total:	\$ 1,188.00	\$ 1,622.05	\$ 2,810.05
	Utility indirect costs (\$):	Incremental capit \$ -		\$ -
		Incremental O&M \$ -		\$ -
	Total:	\$ -	\$ -	\$ -
	Total Utility Cost of Program	\$ 1,188.00	\$ 1,622.05	\$ 2,810.05

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:** EnergyStar Window Rebate Program

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

Provided a \$50 rebate per EnergyStar window installed

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Single or double window		
Efficient technology:	EnergyStar rated window		
Number of participants or units delivered:	10.00		
Measure life (years):	25.00		
Number of participants/units 05&06	82		
Number of Participants or units delivered life-to-date	92.00		

B. TRC Results:	Reporting Year	Total 05&06 TRC	Life-to-date TRC
		Results	Results:
¹ TRC Benefits (\$):	\$ 3,850.14	\$ 28,294.23	\$ 32,144.37
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ -		\$ -
Incremental Measure Costs (Equipment Costs)	\$ 900.00	\$ 6,150.00	\$ 7,050.00
Total TRC costs:	\$ 900.00	\$ 6,150.00	\$ 7,050.00
Net TRC (in year CDN \$):	\$ 2,950.14	\$ 22,144.23	\$ 25,094.37
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	4.28	\$ 4.60	\$ 4.56

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

Conservation Programs:

Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	3.92	0.00	
Energy saved (kWh):			Cumulative Lifecycle	Cumulative Annual Savings
	lifecycle	122,195.25	in year	4,887.81
			957196.125	38287.845
			Total 05&06 Lifecycle	Total 05&06 Annual
Other resources saved :			835000.875	33400.035
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):

			Reporting Year	Total 05&06 Costs	Cumulative Life to Date
D. Program Costs*:					
Utility direct costs (\$):	Incremental capital:		\$ -		\$ -
	Incremental O&M:	0	\$ -		\$ -
	Incentive:		\$ 500.00	\$ 4,100.00	\$ 4,600.00
	Total:		\$ 500.00	\$ 4,100.00	\$ 4,600.00
Utility indirect costs (\$):	Incremental capital:		\$ -		\$ -
	Incremental O&M:		\$ -		\$ -
	Total:		\$ -	\$ -	\$ -
Total Utility Cost of Program			\$ 500.00	\$ 4,100.00	\$ 4,600.00

E. Assumptions & Comments:

The OEB Assumptions were changed for this measure. The incentive was to encourage the installation of EnergyStar windows rather than the installation of standard windows. The incentive would not have caused the customer to "change their windows" hence only the incremental cost should be utilized. The incremental cost was assumed at \$100 per window and the free rider rate was raised to 25% recognizing a higher acceptance and availability of EnergyStar windows.

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:** Goderich Hydro CDM Portfolio Costs

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

Portfolio costs include expenditures not specific to a CDM Project. 2005 costs only, 2006 costs in projects

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

	<u>Reporting Year</u>	<u>Total 05&06 TRC Results</u>	<u>Life-to-date TRC Results:</u>
B. ¹ TRC Benefits (\$):	\$ -	-	\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 4,800.01	\$ 4,800.01
Incremental Measure Costs (Equipment Costs)	\$ -	-	\$ -
Total TRC costs:	\$ -	\$ 4,800.01	\$ 4,800.01
<u>Net TRC (in year CDN \$):</u>	\$ -	-\$ 4,800.01	-\$ 4,800.01
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)	
	Winter	0.00	0.00	
		<i>lifecycle</i>	<i>in year</i>	<i>Cumulative Lifecycle</i>
Energy saved (kWh):		0.00	0.00	0
				<i>Cumulative Annual Savings</i>
				0
				<i>Total 05&06 Lifecycle</i>
				<i>Total 05&06 Annual</i>
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 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.	<u>Program Costs*:</u>	<u>Reporting Year</u>	<u>Total 05&06 Costs</u>	<u>Cumulative Life to Date</u>
	<i>Utility direct costs (\$):</i>			
	<i>Incremental capital:</i>	\$ -		\$ -
	<i>Incremental O&M:</i>	\$ -	\$ 4,800.01	\$ 4,800.01
	<i>Incentive:</i>	\$ -		\$ -
	<i>Total:</i>	\$ -	\$ 4,800.01	\$ 4,800.01
	<i>Utility indirect costs (\$):</i>			
	<i>Incremental capital:</i>	\$ -		\$ -
	<i>Incremental O&M:</i>	\$ -		\$ -
	<i>Total:</i>	\$ -	\$ -	\$ -
	<i>Total Utility Cost of Program</i>	\$ -	\$ 4,800.01	\$ 4,800.01

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 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:** Residential Energy Efficiency Project (REE)

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

2005 Project-Consultants performed EnerGuide Home Evaluations. Goderich Hydro provided \$50 rebate.

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	47		
Number of Participants or units delivered life-to-date	47.00		

	Reporting Year	Total 05&06 TRC Results	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -		\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 1,749.57	\$ 1,749.57
Incremental Measure Costs (Equipment Costs)	\$ -	\$ 4,230.00	\$ 4,230.00
Total TRC costs:	\$ -	\$ 5,979.57	\$ 5,979.57
Net TRC (in year CDN \$):	\$ -	-\$ 5,979.57	-\$ 5,979.57
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

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

Conservation Programs:

			Report Summer Demand (kW)	
Demand savings (kW):	Summer	0.00	0.00	
	Winter	0.00		
Energy saved (kWh):	lifecycle	0.00	Cumulative Lifecycle	Cumulative Annual Savings
	in year	0.00	0	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):	
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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):
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:	\$ -	\$ 1,749.57
		Incremental O&M:	\$ -	\$ 2,350.00
		Incentive:	\$ -	\$ -
		Total:	\$ -	\$ 4,099.57
	Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
		Incremental O&M:	\$ -	\$ -
		Total:	\$ -	\$ -
	Total Utility Cost of Program	\$ -	\$ 4,099.57	\$ 4,099.57

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:** Smart Meter Project

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

2005 Project: Goderich Hydro planned to offer Smart Meters to residential 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:	0.00		
Measure life (months):	0.00		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	0.00		

B.	TRC Results:	Reporting Year	Total 05&06 TRC	Life-to-date
			Results	TRC Results:
	¹ TRC Benefits (\$):	\$ -		\$ -
	² TRC Costs (\$):			
	Utility program cost (less incentives):	\$ -	\$ 1,636.36	\$ 1,636.36
	Incremental Measure Costs (Equipment Costs)	\$ -		\$ -
	Total TRC costs:	\$ -	\$ 1,636.36	\$ 1,636.36
	Net TRC (in year CDN \$):	\$ -	-\$ 1,636.36	-\$ 1,636.36
	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):	Winter	0.00	Cumulative Lifecycle	Cumulative Annual Savings
	lifecycle	in year	0	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):

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.	<u>Program Costs*:</u>		<u>Reporting Year</u>		<u>Total 05&06</u>	<u>Cumulative Life</u>
					<u>Costs</u>	<u>to Date</u>
	Utility direct costs (\$):	Incremental capital:	\$ -	\$ 1,636.36	\$ 1,636.36	\$ 1,636.36
		Incremental O&M:	\$ -		\$ -	\$ -
		Incentive:	\$ -		\$ -	\$ -
		Total:	\$ -	\$ 1,636.36	\$ 1,636.36	\$ 1,636.36
	Utility indirect costs (\$):	Incremental capital:	\$ -		\$ -	\$ -
		Incremental O&M:	\$ -		\$ -	\$ -
		Total:	\$ -	\$ -	\$ -	\$ -
	Total Utility Cost of Program		\$ -	\$ 1,636.36	\$ 1,636.36	\$ 1,636.36

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 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:** Voluntary Black Out Day

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

Combined effort of utilities to profile the importance of energy and the ability to reduce by sponsoring a voluntary black out day.

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 (months):	0.00		
Number of participants or units 2005	2500		
Number of Participants or units delivered life-to-date	2,500.00		

	<u>Reporting Year</u>	<u>Total 05&06 TRC Results</u>	<u>Life-to-date TRC Results:</u>
B. ¹ TRC Benefits (\$):	\$ -	\$ -	\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 992.40	\$ 992.40
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 992.40	\$ 992.40
Net TRC (in year CDN \$):	\$ -	-\$ 992.40	-\$ 992.40
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)	
	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	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 savings (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.	<u>Program Costs*:</u>			
	Utility direct costs (\$):	Incremental capital: \$ -		\$ -
		Incremental O&M: \$ -	\$ 992.40	\$ 992.40
		Incentive: \$ -		\$ -
		Total: \$ -	\$ 992.40	\$ 992.40
	Utility indirect costs (\$):	Incremental capital: \$ -		\$ -
		Incremental O&M: \$ -		\$ -
		Total: \$ -	\$ -	\$ -
	Total Utility Cost of Program		\$ 992.40	\$ 992.40

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 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

Appendix B - Discussion of the Program

(complete this section for each program)

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

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

Purchased "Kill A Watt" meters and display boards for conservation education. Goderich Hydro participates in a few conservation fairs every year to promote energy conservation. The "Kill A Watt" meters are for rent at the hydro office, appliances are plugged into the meter to determine the consumption

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 (months):	0.00		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	0.00		

B. TRC Results:	<u>Reporting Year</u>	<u>Total 05&06 TRC</u>	<u>Life-to-date</u>
		<u>Results</u>	<u>TRC Results:</u>
¹ TRC Benefits (\$):	\$ -		\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ 1,234.47		\$ 1,234.47
Incremental Measure Costs (Equipment Costs)	\$ -		\$ -
Total TRC costs:	\$ 1,234.47	\$ -	\$ 1,234.47
<u>Net TRC (in year CDN \$):</u>	<u>-\$ 1,234.47</u>	<u>\$ -</u>	<u>-\$ 1,234.47</u>
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	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	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):	
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Peak hours dispatched in year (hours):

Power Factor Correction Programs:

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

Line Loss Reduction Programs:

Peak load savings (kW):

lifecycle	in year
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 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:	\$ -		\$ -
		Incremental O&M:	\$ 1,234.47		\$ 1,234.47
		Incentive:	\$ -		\$ -
		Total:	\$ 1,234.47	\$ -	\$ 1,234.47
	Utility indirect costs (\$):	Incremental capital:	\$ -		\$ -
		Incremental O&M:	\$ -		\$ -
		Total:	\$ -	\$ -	\$ -
	Total Utility Cost of Program		\$ 1,234.47	\$ -	\$ 1,234.47

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 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.