

## *Cornerstone Hydro Electric Concepts Association Inc.*

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

### **Conservation and Demand Management 2008 Annual Report**

#### **1.0 Introduction:**

This 2008 Annual Report summarizes the activity and successes of the Cornerstone Hydro Electric Concepts (CHEC) Group with respect to conservation and demand management initiative undertaken as part of the third tranche funding. Included in this document are the sixteen (16) individual reports from the Local Distribution Companies (LDCs) that formed the CHEC Group.

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. At the end of 2007 seven LDCs had exhausted their third tranche funding and continued to support the conservation effort by participating in the OPA programs. The remaining nine LDCs delivered third tranche funded projects in 2008.

The individual reports for the LDCs that delivered third tranche funding in 2008 provides to the reader a better understanding of the activity of each utility while this summary report provides an overview of the impact of the combined effort.

The additional Appendix D requested from the Ontario Energy Board (OEB) required each LDC, including those which completed their programs in previous years, to file a report. To ensure that the 2008 report reflects the full programs the reports for all LDCs contain the minimum of the following documents:

- Appendix A provided for 2008 or last year of plan delivery if completed prior to 2008
- Appendix C which lists the names of programs delivered over the life of the plan
- Appendix D the summary of all years of the plan and which breaks out "Low Income"
- Appendix B for each project – where a project was completed in prior years the Appendix has been reduced to control the number of pages.

Within the 9 LDCs with fund remaining for 2008, there were a total of 25 initiatives worked on in 2008. This volume of programs in 2008 reflects the completion of the plan by many of the LDCs and the reduced amount of funds for investment in the year.

On the population of 25 initiatives, 20% had a positive TRC. 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 2008 the LDCs continued to be actively engaged in the Ontario Power Authority (OPA) funded programs for conservation and demand management. The availability of these funds and programs allowed the LDCs to continue to provide programs supporting development of the conservation culture.

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 Participating Members:**

The 2008 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 previous years their statistics are restated to maintain the completeness of the report.

## **3.0 Evaluation of the CDM Plan:**

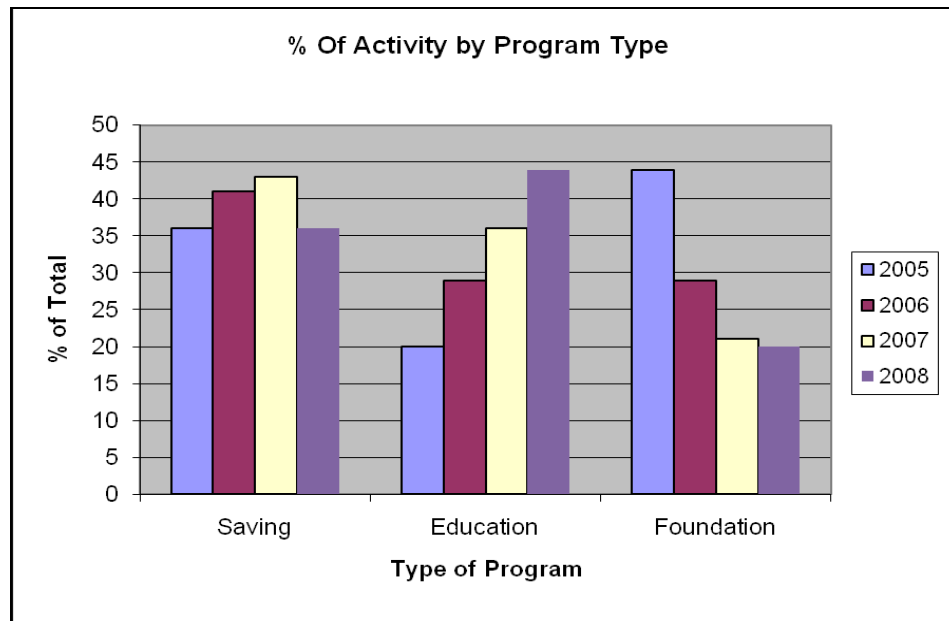
**2008 Portfolio:** The 9 LDCs with third tranche funding remaining collectively undertook a total of 25 initiatives in 2008. These programs fell within three categories:

- 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 2008 initiatives represent a total combined “Utility Cost” of \$305,200 representing the majority of the third tranche funds that remained.

Figure 1 illustrates program makeup from 2005 to 2008. Over the three year period there was strong support for education programs and for saving programs. In many instances programs were delivered with a dual focus allowing savings to be achieved while providing education at the same time. The Foundation programs were highest early in the programs as studies were initiated and completed that helped set the base for future programs and customer activity.

Figure 1



### Savings Programs:

Again in 2008 savings programs continued to focus on local partnerships and delivery channels. The programs continued to partner with community agencies such as social housing, school boards and community based environmental networks. The use of product incentives, delivered through partner agencies or directly to customers, was utilized to provide measures to targeted populations. With these products often educational material was also provided increasing the conservation awareness and knowledge.

**Education Programs:** The CHEC LDC’s continued their support of the education portfolio and the School Boards in their service territories. A couple of programs focused directly on the school sector with programs delivered in 100% of the schools in the service territories. All member LDCs remain responsive to conservation information & support requests from area schools.

**Foundation Program:** As would be expected, in 2008 the numbers of “foundation” programs were on a decline. The 2008 “foundation” programs contained audit support for customers, provision of interval meter and data to provide specific information to the customer for savings and the completion of system optimization studies. While in many instances implementation has not occurred it is anticipated that the information and audits provided will encourage participation in programs such as ERIP.

**Net TRC Results:** The net TRC result of the programs delivered by the nine LDCs in 2008 is -\$120,800. The overall negative in 2008 TRC reflects a number of audit completions as well as continued support to education projects over the course of the year. With the framework of the 2008 programs a total of 2,642,800 kWh (lifecycle) have been saved and the education and audit work will assist with program and technology implementation moving forward.

#### **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. As noted previously the report for LDCs that had completed their programs prior to 2008 are included to ensure the completeness of the combined CHEC CDM Report.

##### **Low Income Projects:**

For the 2008 report the OEB requested that programs with impact on low income customers be identified and the statistics broken out. The combined effort of the member LDCs resulted in an expenditure of \$146,800 on programs that provided specific benefits to low income with over 7,800 measures/contacts made within the term of the programs.

The low income expenditures, kWh saving and measures/contacts reported do not include impacts from coupon or general support programs. For example school based programs delivered to the general population provided benefits to a sector of low income however, these contacts were not accounted for in the low income reporting. It is anticipated that the benefits provided to this sector are greater than reported.

## 5.0 Lessons Learned Over the Duration of the CDM Plan:

**Partnerships and Sharing:** LDCs have developed a number of partners within and outside of their communities to assist with the delivery of conservation programs. The ability to engage third party partners or contractors have been instrumental in the delivery of programs while controlling in-house resources.

The delivery channels created with the third tranche funding and the LDC support systems established have facilitated the successful continuation of LDCs in the delivery of CDM programs. These channels have continued to be important in the delivery and support of OPA programs which provide opportunities for our customers to conserve and for LDCs to reinforce the conservation culture.

CHEC members continue to share information between members and also with other LDCs. The hiring of a staff position by CHEC (in 2009) to continue to facilitate the combined effort of member LDCs is consistent with the success achieved during the third tranche programs.

**Availability of Funds:** The availability of funds at the local level to support conservation initiatives increased the penetration of projects in the service territories. On-going funding at the local level (through custom programs or community initiative funds) to ensure the continuation of the current momentum should prove beneficial to the conservation movement and the conservation culture that has developed.

The importance of multi-year financing cannot be understated when planning the development and delivery of programs. The third tranche funding allowed LDCs to maintain programs and activity over multiple years, reinforcing the conservation message and developing delivery channels. Moving forward the continued support of the government to provide stable financing and systematic and cost effective approvals will be important to effective program delivery.

**TRC:** The use of TRC is incorporated into the OPA program structure and provides a benchmark for project design. While TRC is one useful tool, the use of TRC does not adequately evaluate the benefits and impacts of general support and education programs. Without a delivered measure the impact of these programs is not determined in any manner. While education and general conservation information assists with the results of other programs it is unfortunate that there is not a defined value assigned to customer contact and engagement within the scope of program evaluation.

The further development and understanding of TRC and workshop support for LDCs, if there continues to be an expectation for design of programs, will be important. The manner in which associated costs, measure benefits and third

party costs are accounted for will be important in ensuring appropriate program design and evaluation.

**Third Tranche and OPA Programs:** Third tranche served as a precursor to the OPA programs and the existing model for conservation and demand management program delivery. While many of the third tranche programs were designed at the local level, the industry has benefited from provincially based programs designed by the OPA and delivered locally. A portfolio of both provincial and local programs provides cost effective design and per unit cost for large scale programs while providing local control and local programming for specific needs.

The Third Tranche funding was provided from the LDC rate adjustment and reinvested into the conservation portfolio. This funding, while raised locally and invested locally, was primarily aimed at providing a benefit to the entire electricity grid. While this benefit is shared by all, the costing model moving forward should more closely focus on providing the funding on a global perspective to better reflect the system nature of the benefit.

**Customer Readiness:** The residential customers have been responsive to programs over the delivery period. The awareness to energy conservation, due to the third tranche programs and other societal pressures has certainly increased over the last three to four years. The ability for LDCs to provide programs over the past four years has certainly assisted with this transition

The industrial and commercial customers continue to be difficult to engage. The resources within the company to focus on conservation initiatives have been lacking over the delivery period. Large and small companies all appear to be impacted by the lack of internal resources as well as the downturn in the economy. Programs aimed at providing resource assistance could improve the implementation of programs in this sector or the development of programs and program evaluations that are “turn key” in nature. It is realized however, by all involved conservation projects, that it takes commitment and time by the customer to implement. Helping the customer manage this time commitment may increase the engagement of this sector in the programs.

**Utility Resources:** Utility resources were challenged to meet the combined requirements of third tranche and OPA programs. In many instances the LDCs contracted incremental internal resources or hired external consultants to assist with program management and delivery. Moving forward, depending on the legislative direction set for conservation, the ability of LDCs to develop and maintain reliable resources (both internal and external) will be critical in the on-going delivery of CDM. To best position these resources, the mechanism for

continued LDC funding and cost effective approvals and reporting will be required.

## **6.0 Conclusion:**

With this report the delivery of programs with third tranche funding has been completed pending some minor (committed) expenditure of remaining funds.

The third tranche funding allowed for local initiatives that provided kWh savings and education opportunities aimed at preparing customers for future initiatives. These programs, the resources and knowledge developed and the general awareness of the “conservation culture” will continue to benefit the delivery of CDM programs moving forward.

## **7.0 Appendices:**

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

**Introduction**

This report is a summary of West Coast Huron Energy Inc.'s (Goderich Hydro) Conservation and Demand Side Management (CDM) projects for 2008. This time period represents the fourth year of Goderich Hydro's three year CDM plan.

In August 2007, Goderich Hydro applied and received an extension to the CDM funding. The Ontario Energy Board allowed Goderich Hydro to extend our Third Tranche funding until April 30, 2008. Goderich Hydro is happy to say all the CDM funding has been spent, and that we feel all the projects have been very worthwhile.

**Evaluation/Discussion**

The last project for Goderich Hydro was a contribution towards the purchase of LED traffic lights. Will the installations complete the Town was seen an 85% reduction in their energy consumption. The Town has also been promoting LED traffic lights to other communities. The Town of Goderich and Goderich Hydro have a great working relationship.

**Lessons Learned**

Goderich Hydro and the Town of Goderich have a great working relationship and we can easily promote conservation efforts together. Over the last four years, the financial incentives were extremely instrumental in encouraging customer to participate in these programs.

**Conclusion**

During year four 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. Overall the plan, produce a TRC benefit of \$27,760, lifecycle kWh saved 1,655,668 and number of measures/contact made-4,070. Appendix A, B, C and D are attached summarizing the program

Our membership in CHEC was instrumental in developing and maintaining the Third Tranche plan. The EnergyStar Window Rebate, Light Bulb Give Away, Residential Energy Efficiency Project and Conversation Education were very successful parts of this program. Goderich Hydro customers continue to ask about rebate programs, or about who can complete a home energy audit, in fact Goderich Hydro had the most effective Great Refrigerator Roundup per household in the province.



Thanks to successful efforts of the past four years, Goderich Hydro has obtained the skills, experience, education, and confidence required to create an energy conservation culture that will best serve the needs of its customers.

Prepared By: Jennette Walker

## Appendix D - Total Life Evaluation of the CDM Plan

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

	5 Cumulative Totals Life-to-date	Residential	6 Low Income	Commercial	Institutional	Industrial	Agricultural	LDC System	4 Smart Meters	Other #1	Other #2
Net TRC value (\$):	\$ 26,720	\$ 28,656	\$ 1,469	\$	\$ 2,864	\$	\$	\$		\$ (4,800)	\$
Benefit to cost ratio:	1.69	2.03	2.61		1.45					0.00	
Number of participants or units delivered:	4,070	3,875	121		194					1	
Lifecycle (kWh) Savings:	1,655,668	1,420,444	45,660		235,224					0	
Total kWh saved (kWh):	128,966	119,600	8,092		9,366					0	
Total peak demand saved (kW):	60	60	1		0					0	
Total kWh saved as a percentage of total kWh delivered (%):	0.04%										
Peak kW saved as a percentage of LDC peak kW load (%):											
1 Gross C&DM expenditures (\$):	\$ 33,121	\$ 23,626	\$ 852	\$	\$ 3,059	\$	\$	\$	\$ 1,636	\$ 4,800	\$
2 Expenditures per kWh saved (\$/kWh):	\$ 0.0200	\$ 0.0166	\$ 0.0187	\$	\$ 0.0130	\$	\$	\$		\$ -	\$
3 Expenditures per kW saved (\$/kW):	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$
Utility discount rate (%):											

1 Expenditures are reported on cumulative basis.

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

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

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

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

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

## Appendix A - Evaluation of the CDM Plan

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

	Total for 2008	Residential	<sup>5</sup> Low Income	Commercial	Institutional	Industrial	Agricultural	LDC System	<sup>4</sup> Smart Meters	Other #1	Other #2
<i>Net TRC value (\$):</i>	-\$ 2,000	\$ -	\$	\$ -	\$ (2,000)	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Benefit to cost ratio:</i>	0.00	0.00		0.00	0.00	0.00	0.00	0.00		0.00	0.00
<i>Number of participants or units delivered:</i>											
<i>Lifecycle (kWh) Savings:</i>	0	0		0	0	0	0	0		0	0
<i>Report Year Total kWh saved (kWh):</i>	0	0		0	0	0	0	0		0	0
<i>Total peak demand saved (kW):</i>	0	0		0	0	0	0	0		0	0
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>											
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>											
<sup>1</sup> Report Year Gross C&DM expenditures (\$):	\$ 2,000	\$ -	\$	\$ -	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<sup>2</sup> Expenditures per kWh saved (\$/kWh):	\$ -	\$ -	\$	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<sup>3</sup> Expenditures per kW saved (\$/kW):	\$ -	\$ -	\$	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Utility discount rate (%):</i>											
											8.56

<sup>1</sup> Expenditures are reported on accrual basis.

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

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

<sup>4</sup> 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.

# Appendix C - Program and Portfolio Totals

Report Year: 2008

## 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 (\$)
<i>EnergyStar Air Conditioner &amp; Dehumidifier Rebate Program</i>			\$ -	0.00				
<i>Light Bulb Give Away</i>			\$ -	0.00				
<i>Name of Program C</i>			\$ -	0.00				
<i>Conservation Webpage</i>			\$ -	0.00				
<i>EnergyStar Window Rebate Program</i>			\$ -	0.00				
<i>Name of Program F</i>			\$ -	0.00				
<i>Residential Energy Efficiency Project (REE)</i>			\$ -	0.00				
<i>Voluntary Black Out Day</i>			\$ -	0.00				
<i>Conservation Education</i>			\$ -	0.00				
<i>Name of Program J</i>			\$ -	0.00				
<b>*Totals App. B - Residential</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Residential Indirect Costs not attributable to any specific program</i>	→							
<b>Total Residential TRC Costs</b>		\$ -						
<b>**Totals TRC - Residential</b>	\$ -	\$ -	\$ -	0.00				

## 2. Commercial Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
<i>Name of Program A</i>			\$ -	0.00				
<i>Name of Program B</i>			\$ -	0.00				
<i>Name of Program C</i>			\$ -	0.00				
<i>Name of Program D</i>			\$ -	0.00				
<i>Name of Program E</i>			\$ -	0.00				
<i>Name of Program F</i>			\$ -	0.00				
<i>Name of Program G</i>			\$ -	0.00				
<i>Name of Program H</i>			\$ -	0.00				
<i>Name of Program I</i>			\$ -	0.00				
<i>Name of Program J</i>			\$ -	0.00				
<b>*Totals App. B - Commercial</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -

Commercial Indirect Costs not attributable to any specific program



<b>Total TRC Costs</b>		\$	-			
<b>**Totals TRC - Commercial</b>	\$	-	\$	-	\$	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 (\$)
Traffic Light Conversion		\$ 2,000	-\$ 2,000	0.00				\$ 2,000
LED Exit Light Retrofits			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
<b>*Totals App. B - Institutional</b>	\$ -	\$ 2,000	-\$ 2,000	0.00	0	0	0	\$ 2,000

Institutional Indirect Costs not attributable to any specific program



<b>Total TRC Costs</b>		\$	2,000			
<b>**Totals TRC - Institutional</b>	\$	-	\$	2,000	\$	0.00

### 4. Industrial Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program F			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				

Name of Program J			\$ -	0.00				
<b>*Totals App. B - Industrial</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Industrial Indirect Costs not attributable to any specific program</i>	→							
<b>Total TRC Costs</b>		\$ -						
<b>**Totals TRC - Industrial</b>	\$ -	\$ -	\$ -	<b>0.00</b>				

### 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.

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

### 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.

Name of Program	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
	Name of Program A			\$ -	0.00			
Name of Program B			\$ -	0.00				

Name of Program C			\$	-	0.00				
Name of Program D			\$	-	0.00				
Name of Program E			\$	-	0.00				
Name of Program F			\$	-	0.00				
Name of Program G			\$	-	0.00				
Name of Program H			\$	-	0.00				
Name of Program I			\$	-	0.00				
Name of Program C			\$	-	0.00				
<b>*Totals App. B - LDC System</b>	\$ -	\$ -	\$ -	-	0.00	0	0	0	\$ -
<i>LDC System Indirect Costs not attributable to any specific program</i>	→								
<b>Total TRC Costs</b>		\$ -							
<b>**Totals TRC - LDC System</b>	\$ -	\$ -	\$ -	-	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 (\$)
Goderich Hydro CDM Portfolio Costs			\$ -	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				
<b>*Totals App. B - Other #1</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Other #1 Indirect Costs not attributable to any specific program</i>	→							
<b>Total TRC Costs</b>		\$ -						
<b>**Totals TRC - Other #1</b>	\$ -	\$ -	\$ -	0.00				

### 9. Other #2 Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
<b>*Totals App. B - Other #2</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Other #2 Indirect Costs not attributable to any specific program</i>	→							
<b>Total TRC Costs</b>		\$ -						
<b>**Totals TRC - Other #2</b>	\$ -	\$ -	\$ -	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 (\$)
<b>*TOTALS FOR ALL APPENDIX B</b>	\$ -	\$ 2,000	-\$ 2,000	0.00	\$ -	\$ -	\$ -	\$ 2,000
<i>Any other Indirect Costs not attributable to any specific program</i>	→							
<b>TOTAL ALL LDC COSTS</b>		\$ 2,000						
<b>**LDC' PORTFOLIO TRC</b>	\$ -	\$ 2,000	-\$ 2,000	0.00				

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

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



# Appendix B - Discussion of the Program

**(complete this Appendix for each program)**

A. **Name of the Program:** LED Conversion of Traffic Lights

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

Goderich Hydro provided financial support to the municipal traffic light conversion program. Municipality converted all intersections in the community.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Incandescent Lights		
Efficient technology:	LED Bulbs		
Number of participants or units delivered for reporting year:			
Measure life (years):	5		
Number of Participants or units delivered life to date	150		

B. <b>TRC Results:</b>	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 2,000.00	
Incremental Measure Costs (Equipment Costs)		
<b>Total TRC costs:</b>	<b>\$ 2,000.00</b>	
<b>Net TRC (in year CDN \$):</b>	<b>-\$ 2,000.00</b>	
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		

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

**Conservation Programs:**

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

**Demand Management Programs:**

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

**Demand Response Programs:**

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

**Power Factor Correction Programs:**

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

**Line Loss Reduction Programs:**

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

**Distributed Generation and Load Displacement Programs:**

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

**Other Programs (specify):**

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

**D. Actual Program Costs:**

		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ 2,000.00	
	Incentive:		
	Total:	\$ 2,000.00	
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

TRC not calculated due to small contribution to large project.

<sup>1</sup> 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.

<sup>2</sup> 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 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. <b>TRC Results:</b>	Reporting Year		Total 05&06 TRC Results	Life-to-date TRC Results:
	<sup>1</sup> TRC Benefits (\$):	\$	401.15	
<sup>2</sup> 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:	
<b>Conservation Programs:</b>					
Demand savings (kW):	Summer	0.41	Report Summer Demand (kW)		
	Winter	0.00	0.41		
			Cumulative Lifecycle	Cumulative Annual Savings	
Energy saved (kWh):	lifecycle	4,752.00	4752	396	
	in year	396.00	Total 05&06 Lifecycle	05&06 Annual	
Other resources saved :					
Natural Gas (m3):	0	0			
Water (l)	0	0			

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

# 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		

B. <b>TRC Results:</b>	Reporting Year	Total 05&06 TRC	Life-to-date TRC
		Results	Results:
<sup>1</sup> TRC Benefits (\$):	\$ 11,531.27	\$ 12,335.00	\$ 23,866.27
<sup>2</sup> 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
<b>Net TRC (in year CDN \$):</b>	<b>\$ 7,300.36</b>	<b>\$ 7,449.09</b>	<b>\$ 14,749.45</b>
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:**

Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	11.56	0.00	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
	184,996.80	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		

D. <b>Program Costs*:</b>	Reporting Year	Total 05&06 Costs	Cumulative Life
		to Date	
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC/L15	Incremental O&M:	\$ 5,094.76	\$ 7,586.67
	Incentive:	\$ -	\$ 942.00
	Total:	\$ 5,094.76	\$ 8,528.67
	Utility indirect costs (\$):	Incremental capital:	\$ -
	Incremental O&M:	\$ -	\$ -
	Total:	\$ -	\$ -
<b>Total Utility Cost of Program</b>		<b>\$ 5,094.76</b>	<b>\$ 8,528.67</b>

# 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)
Base case technology:	Old Exit Sign		
Efficient technology:	New LED Exit Sign		
Number of participants or units delivered:	8.00		
Measure life (years):	25.11		
Number of participants/units 05&06	36		
Number of Participants or units delivered life-to-date	44.00		

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

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

D. <b>Program Costs*:</b>	Reporting Year	Total 05&06 Costs	Cumulative Life
		to Date	
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC IL15	Incremental O&M:	\$ 510.08	\$ 1,059.46
	Incentive:	\$ -	\$ -
	Total:	\$ 510.08	\$ 1,059.46
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -
	Total:	\$ -	\$ -
<b>Total Utility Cost of Program</b>		<b>\$ 510.08</b>	<b>\$ 1,059.46</b>

# 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.	<b>TRC Results:</b>	<b>Reporting Year</b>	<b>Life-to-date</b>	
			<b>Total 05&amp;06 TRC Results</b>	<b>TRC Results:</b>
	<sup>1</sup> TRC Benefits (\$):	\$ -	\$ -	\$ -
	<sup>2</sup> 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
	<b>Net TRC (in year CDN \$):</b>	<b>-\$ 1,188.00</b>	<b>-\$ 1,622.05</b>	<b>-\$ 2,810.05</b>
	<b>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</b>	<b>0.00</b>	<b>\$ -</b>	<b>\$ -</b>

C.	<b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
	<b>Conservation Programs:</b>				
	Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
		Winter	0.00	0.00	
				Cumulative Lifecycle	Cumulative Annual Savings
	Energy saved (kWh):	lifecycle	0.00	0	0
		in year	0.00		
				Total 05&06 Lifecycle	Total 05&06 Annual
	Other resources saved :				
	Natural Gas (m3):	0	0		
	Water (l)	0	0		

D.	<b>Program Costs*:</b>	<b>Reporting Year</b>	<b>Total 05&amp;06 Costs</b>	<b>Cumulative Life to Date</b>
	Utility direct costs (\$):	Incremental capi	\$ -	\$ -
		Incremental O&M	\$ 1,188.00	\$ 2,810.05
		Incentive:	\$ -	\$ -
		Total:	\$ 1,188.00	\$ 2,810.05
	Utility indirect costs (\$):	Incremental capi	\$ -	\$ -
		Incremental O&M	\$ -	\$ -
		Total:	\$ -	\$ -
	<b>Total Utility Cost of Program</b>		<b>\$ 1,188.00</b>	<b>\$ 2,810.05</b>

# 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. <b>TRC Results:</b>	Reporting Year	Total 05&06 TRC	Life-to-date
		Results	TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ 3,850.14	\$ 28,294.23	\$ 32,144.37
<sup>2</sup> 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
<b>Net TRC (in year CDN \$):</b>	<b>\$ 2,950.14</b>	<b>\$ 22,144.23</b>	<b>\$ 25,094.37</b>
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):	lifecycle	122,195.25	Cumulative Lifecycle	Cumulative Annual Savings
	in year	4,887.81	957196.125	38287.845
Other resources saved :			Total 05&06 Lifecycle	Total 05&06 Annual
Natural Gas (m3):	0	0	835000.875	33400.035
Water (l)	0	0		

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

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.

# Appendix B - Discussion of the Program

(complete this section for each program)

A.	<b>Name of the Program:</b>	Goderich Hydro CDM Portfolio Costs		
	<b>Description of the program (including intent, design, delivery, partnerships and evaluation):</b>	Portfolio costs include expenditures not specific to a CDM Project. 2005 costs only, 2006 costs in projects		
	<b>Measure(s):</b>	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		

B.	<b>TRC Results:</b>	<b>Reporting Year</b>	<b>Total 05&amp;06 TRC Results</b>	<b>Life-to-date TRC Results:</b>
	<sup>1</sup> TRC Benefits (\$):	\$ -		\$ -
	<sup>2</sup> 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
	<b>Net TRC (in year CDN \$):</b>	\$ -	-\$ 4,800.01	-\$ 4,800.01
	<b>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</b>	#DIV/0!	\$ -	\$ -

C.	<b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
	<b>Conservation Programs:</b>				
	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		

D.	<b>Program Costs*:</b>	<b>Reporting Year</b>	<b>Total 05&amp;06 Costs</b>	<b>Cumulative Life to Date</b>
	Utility direct costs (\$):	Incremental capital:	\$ -	\$ -
		Incremental O&M:	\$ 4,800.01	\$ 4,800.01
		Incentive:	\$ -	\$ -
		Total:	\$ 4,800.01	\$ 4,800.01
	Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
		Incremental O&M:	\$ -	\$ -
		Total:	\$ -	\$ -
	<b>Total Utility Cost of Program</b>		\$ 4,800.01	\$ 4,800.01



# Appendix B - Discussion of the Program

(complete this section for each program)

A.	<b>Name of the Program:</b>	Residential Energy Efficiency Project (REE)		
	<b>Description of the program (including intent, design, delivery, partnerships and evaluation):</b>	2005 Project-Consultants performed EnerGuide Home Evaluations. Goderich Hydro provided \$50 rebate.		
	<b>Measure(s):</b>	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		

B.	<b>TRC Results:</b>	<b>Reporting Year</b>	<b>Total 05&amp;06 TRC Results</b>	<b>Life-to-date TRC Results:</b>
	<sup>1</sup> TRC Benefits (\$):	\$ -	\$ -	\$ -
	<sup>2</sup> 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
	<b>Net TRC (in year CDN \$):</b>	\$ -	-\$ 5,979.57	-\$ 5,979.57
	<b>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</b>	#DIV/0!	\$ -	\$ -

C.	<b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
	<b>Conservation Programs:</b>				
	Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
		Winter	0.00	0.00	
				Cumulative Lifecycle	Cumulative Annual Savings
	Energy saved (kWh):	lifecycle	0.00	0	0
		in year	0.00		
				Total 05&06 Lifecycle	Total 05&06 Annual
	Turner resources saved :				
	Natural Gas (m3):	0	0		
	Water (l)	0	0		

D.	<b>Program Costs*:</b>	<b>Reporting Year</b>	<b>Total 05&amp;06 Costs</b>	<b>Cumulative Life to Date</b>
	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:	\$ -	\$ -
	<b>Total Utility Cost of Program</b>		\$ -	\$ 4,099.57

# Appendix B - Discussion of the Program

(complete this section for each program)

A.	<b>Name of the Program:</b>	Smart Meter Project		
	<b>Description of the program (including intent, design, delivery, partnerships and evaluation):</b>	2005 Project: Goderich Hydro planned to offer Smart Meters to residential customers.		
	<b>Measure(s):</b>	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.	<b>TRC Results:</b>	<b>Reporting Year</b>	<b>Total 05&amp;06 TRC Results</b>	<b>Life-to-date TRC Results:</b>
	<sup>1</sup> TRC Benefits (\$):	\$ -		\$ -
	<sup>2</sup> 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
	<b>Net TRC (in year CDN \$):</b>	<b>\$ -</b>	<b>-\$ 1,636.36</b>	<b>-\$ 1,636.36</b>
	Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

C.	<b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
	<b>Conservation Programs:</b>				
	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		

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

# 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		

B.	<b>TRC Results:</b>	<b>Reporting Year</b>	<b>Total 05&amp;06 TRC</b>	<b>Life-to-date TRC</b>
			<b>Results</b>	<b>Results:</b>
	<sup>1</sup> TRC Benefits (\$):	\$ -	\$ -	\$ -
	<sup>2</sup> TRC Costs (\$):			
	Utility program cost (less incentives):	\$ -	\$ 992.40	\$ 992.40
	Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
	Total TRC costs:	\$ -	\$ 992.40	\$ 992.40
	<b>Net TRC (in year CDN \$):</b>	\$ -	\$ -992.40	\$ -992.40
	<b>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</b>	#DIV/0!	\$ -	\$ -

C.	<b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>	
	<b>Conservation Programs:</b>		
	Demand savings (kW):	Summer 0.00	Report Summer Demand (kW)
		Winter 0.00	0.00
		lifecycle	in year
	Energy saved (kWh):	0.00	0.00
			Cumulative Lifecycle
			Cumulative Annual Savings
			0
			0
			Total 05&06 Lifecycle
			Total 05&06 Annual
	Other resources saved :		
	Natural Gas (m3):	0	0
	Water (l)	0	0

D.	<b>Program Costs*:</b>	<b>Reporting Year</b>	<b>Total 05&amp;06 Costs</b>	<b>Cumulative Life to Date</b>
	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: \$ -	\$ -	\$ -
	<b>Total Utility Cost of Program</b>	\$ -	\$ 992.40	\$ 992.40

# 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.	<b>TRC Results:</b>	<b>Reporting Year</b>	<b>Total 05&amp;06 TRC</b>	<b>Life-to-date</b>
			<b>Results</b>	<b>TRC Results:</b>
	<sup>1</sup> TRC Benefits (\$):	\$ -		\$ -
	<sup>2</sup> 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
	<b>Net TRC (in year CDN \$):</b>	<b>-\$ 1,234.47</b>	<b>\$ -</b>	<b>-\$ 1,234.47</b>
	Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	#DIV/0!	\$ -

C.	<b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
		<b>Conservation Programs:</b>			
	Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
		Winter	0.00	0.00	
		lifecycle	in year	Cumulative Lifecycle	Cumulative Annual
	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		

D.	<b>Program Costs*:</b>		<b>Reporting Year</b>	<b>Total 05&amp;06 Costs</b>	<b>Cumulative Life</b>
					<b>to Date</b>
	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:	\$ -	\$ -	\$ -
	<b>Total Utility Cost of Program</b>		<b>\$ 1,234.47</b>	<b>\$ -</b>	<b>\$ 1,234.47</b>