

## *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:**

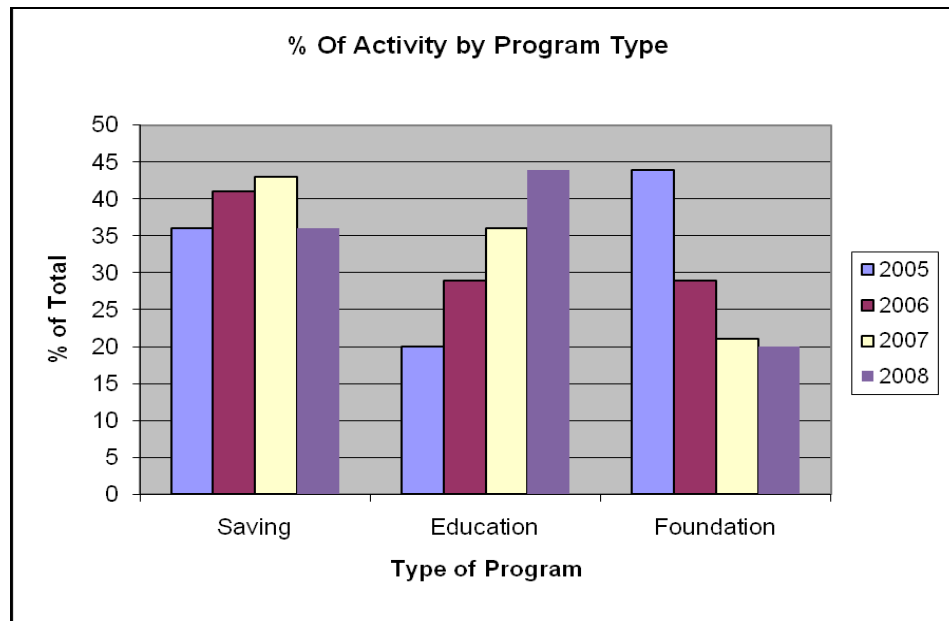
**2008 Portfolio:** The 9 LDCs with third tranche funding remaining collectively undertook a total of 25 initiatives in 2008. These programs fell within three categories:

- 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:

Appendix 1	Summary of CHEC Appendix D's	page 8
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### Individual Utility CDM 2008 Annual Report RP-2004-0203/EB-2004-0502

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**Ontario Energy Board File number RP-2004-0203/EB-2004-0502**

**2008 Annual Report**

**Conservation and Demand Management Activities**



## **Introduction:**

Rideau St. Lawrence Distribution Inc. has completed its fourth and final year in the delivery of Conservation and Demand Management programs.

Program approval for Conservation and Demand Management expenditures was given as a Final order by the Ontario Energy Board on February 8, 2005. Rideau applied for, and received approval for CDM plan spending of \$120,000 consistent with the third installment of its incremental MARR.

This report covers the period from January 1, 2008 to December 31, 2008 and also provides some general observation over the entire period of the program.

During 2008, in addition to the final program associated with third tranche, Rideau St. Lawrence has been actively engaged in the OPA CD&M programs. While these programs focused on the mass market the remaining third tranche funds allowed Rideau St. Lawrence to focus on the industrial customers. This diverse focus allowed all customer groups to obtain CD&M information and activity in 2008.

## **2008 Projects**

**Interval Meter Program:** Rideau St. Lawrence installed 24 interval meters at customers that were over 200 kW of demand. The program is aimed at providing the customer the ability to review their consumption in greater detail with specific information to allow them to take action to control their use and demand profile. Training with respect to the benefits of the interval meter and the associated data was provided to the customers. It is anticipated that customers, once they understand the information available will affect change on their use.

## **2. Evaluation of CDM Plan**

Appendix A and D of the OEB's annual reporting guidelines is attached and forms part of this report.

Overall TRC for the plan was positive. While a positive outcome is desirable it is recognized that much of the Third Tranche work was undertaken to help develop the "conservation culture".

The CDM Plan incorporate projects which engaged all sectors of the customers over the course four year period. In the early stages the mass market and

residential sector was the focus with commercial and industrial programs forming a larger focus of the plan in later years.

### **3. Discussion of Programs**

Appendix B of the OEB's annual reporting guidelines is attached and forms part of this report. To ensure the completeness of the report the previous year Appendix B's have been included however in a reduced format. In this manner the reader can review the full scope of the program.

### **4. Lessons Learned**

The third tranche was Rideau's' initial venture into Conservation and Demand Management programming and was expected to be a learning experience. We believe that one of the most important outcomes has been the increased awareness of CDM opportunities not only those offered by Rideau through the third tranche funded programs but those now offered by the OPA and others. Indeed we have seen our staff and customers increasingly engaged in the CDM area. The movement towards creating a conservation culture has been fueled through the awareness, education and programming offered in recent years.

We have seen a growing appetite for CDM programs throughout the time period of the third tranche funding and extending to the present OPA funded environment we are currently in. We see that the LDC participation in continuing to foster this culture as being important. Customers approach LDC's because of the trusting relationship that exists between the customer and their local utility. Further, LDC's are positioned as community experts in energy matters and most importantly they are accessible to their customers.

Education was a big part of the program and repetition is "key" to success. While this Third Tranche Plan started to deliver the message it will be important for LDCs to keep the conservation message in front of our customers as we are doing with delivery of the OPA programs.

## **5. Conclusion**

We would re-iterate our previous thoughts, that programs should not be strictly evaluated based on the results of a TRC model. Projects such as our system optimization may or may not yield a positive TRC. The study in itself will have a negative TRC. Modifications suggested as a result of the study will be investigated and evaluated using the TRC as a guide. Educational programs which are evaluated in the same manner, do not yield the positive TRC, but form an important basis for moving customer attitudes and add to the success of future programs.

This report respectfully submitted on behalf of Rideau St. Lawrence Distribution Inc.

John Walsh  
President and Chief Executive Officer

## 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 (\$):	\$ 140,069	\$ 244,033	\$ 1,684	\$ (50,031)	\$	\$ (1,000)	\$	\$ (52,933)		\$	\$
Benefit to cost ratio:	2.19	18.27	10.98	0.00		0.00		0.00			
Number of participants or units delivered:	17,640	16,113	75	24		1		1,502			
Lifecycle (kWh) Savings:	4,956,066	4,956,066	32,625	0		0		0			
Total kWh saved (kWh):	686,807	686,807	7,569	0		0		0			
Total peak demand saved (kW):	153	151	2	1		0		1			
Total kWh saved as a percentage of total kWh delivered (%):	0.19%										
Peak kW saved as a percentage of LDC peak kW load (%):											
1 Gross C&DM expenditures (\$):	\$ 121,561	\$ 12,468	\$ 384	\$ 50,031	\$	\$ 1,000	\$	\$ 52,933	\$ 5,128	\$	\$
2 Expenditures per kWh saved (\$/kWh):	\$ 0.0245	\$ 0.0025	\$ 0.0118	\$	\$	\$ -	\$	\$ -		\$	\$
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>	-\$ 50,031	\$ -	\$ -	\$ (50,031)	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<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>	24			24							
<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> <i>Report Year Gross C&amp;DM expenditures (\$):</i>	\$ 50,031	\$ -	\$ -	\$ 50,031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<sup>2</sup> <i>Expenditures per kWh saved (\$/kWh):</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<sup>3</sup> <i>Expenditures per kW saved (\$/kW):</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Utility discount rate (%):</i>	6.47										

<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: 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 (\$)
Energy Cruch Kits			\$ -	0.00				
Spring Every Kilowatt Counts (EKC) Program			\$ -	0.00				
Customer Survey			\$ -	0.00				
Fall Every Kilowatt Counts (EKC) Program			\$ -	0.00				
Switch to Cold Water Wash Coupon Program			\$ -	0.00				
Energy Audits/Projects			\$ -	0.00				
Lighten Your Electricity Bill Coupon Program			\$ -	0.00				
Conservation Brochure			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
<b>*Totals App. B - Residential</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Residential Indirect Costs not attributable to any specific program	→							
<b>Total Residential TRC Costs</b>		\$ -						
<b>**Totals TRC - Residential</b>	\$ -	\$ -	\$ -	0.00				

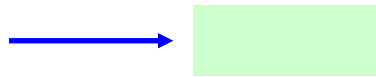
## 2. Commercial Programs

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 (\$)
Interval Meter for Customers > 50 kW	\$ -	\$ 50,031	-\$ 50,031	0.00	0	0	0	\$ 50,031
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 - Commercial</b>	\$ -	\$ 50,031	-\$ 50,031	0.00	0	0	0	\$ 50,031

Commercial Indirect Costs not attributable to any specific program



<b>Total TRC Costs</b>		\$	50,031				
<b>**Totals TRC - Commercial</b>	\$	-	\$	50,031	-\$	50,031	0.00

### 3. Institutional Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program 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>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -

Institutional Indirect Costs not attributable to any specific program



<b>Total TRC Costs</b>		\$	-		
<b>**Totals TRC - Institutional</b>	\$	-	\$	-	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 (\$)
Energy Management Workshop			\$ -	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>	\$	-	\$	-	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 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>	\$ -	\$ -	\$ -	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 (\$)
School Conservation Education and Poster Contest			\$ -	0.00				
System Optimization Study			\$ -	0.00				



Conservation Website			\$	-	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	\$ -

LDC System Indirect Costs not attributable to any specific program

→

<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 (\$)
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				
<b>*Totals App. B - Other #1</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -

Other #1 Indirect Costs not attributable to any specific program

→

<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>	\$ -	\$ 50,031	-\$ 50,031	0.00	\$ -	\$ -	\$ -	\$ 50,031
<i>Any other Indirect Costs not attributable to any specific program</i>								
<b>TOTAL ALL LDC COSTS</b>		\$ 50,031						
<b>**LDC' PORTFOLIO TRC</b>	\$ -	\$ 50,031	-\$ 50,031	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:** Interval Meter for Customers > 50 kW

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

The program will focus on the specific needs of industrial customers with an average demand over 200 kW. The program included the installation of 22 interval meters. The customers were also provided assistance to understand the advantages of the interval meter and the consumption and load profile information that could be utilized to increase their efficiencies, reduce their consumption and peak and reduce their electrical energy costs.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Standard metering		
Efficient technology:	Interval Meter		
Number of participants or units delivered for reporting year:	24		
Measure life (years):	7		
Number of Participants or units delivered life to date	24		

B. **TRC Results:**

	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ -	
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 50,030.91	
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	\$ 50,030.91	
Net TRC (in year CDN \$):	-\$ 50,030.91	
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):			
	<i>lifecycle</i>	<i>in year</i>	
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:	\$ 50,030.91	
	Incremental O&M:		
	Incentive:		
	Total:		
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

[Redacted area]

To date the various customers have not noted any changes in production schedules or processes that would result in kWh savings or demand. The full impact of the interval meter will more likely be relevant in future years with continued education of the customers with respect to the general electricity market and the capabilities of the meter.

<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:** School Conservation Education and Poster Contest

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

• To provide useful education and demonstration of energy conservation appliances and ideas for conservation that can be used around the home and school. A poster contest was launched immediately after the school sessions to measure the interest and return

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
<i>Base case technology:</i>	Existing Knowledge of Primary Schoolers		
<i>Efficient technology:</i>	New Knowledge of Conservation Ideas		
<i>Number of participants or units delivered:</i>	1,500.00	0	0
<i>Measure life (years):</i>	0.00		
<i>Number of participants or units 2008:</i>	0		
<i>Number of Participants or units delivered life-to-date</i>	1,500.00		

	Reporting Year	2005 TRC Results	Life-to-date TRC Results:
<b>TRC Results:</b>			
<sup>1</sup> TRC Benefits (\$):	\$ -		\$ -
<sup>2</sup> TRC Costs (\$):			
<i>Utility program cost (less incentives):</i>	\$ 3,520.60		\$ 3,520.60
<i>Incremental Measure Costs (Equipment Costs)</i>	\$ -		\$ -
<i>Total TRC costs:</i>	\$ 3,520.60	\$ -	\$ 3,520.60
<i>Net TRC (in year CDN \$):</i>	\$ (3,520.60)	\$ -	\$ (3,520.60)
<i>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</i>	0.00	#DIV/0!	\$ -

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

**Cumulative Results:**

**Conservation Programs:**

<i>Demand savings (kW):</i>	Summer	0.00	Report Winter Demand (kW)	
	Winter	0.00	0.00	
			<i>Cumulative Lifecycle</i>	<i>Cumulative Annual Savings</i>
<i>Energy saved (kWh):</i>	<i>lifecycle</i>	<i>in year</i>	0	0
	0.00	0.00	2005 Lifecycle	2005 Annual
<i>Other resources saved :</i>				
<i>Natural Gas (m3):</i>	0	0		
<i>Water (l)</i>	0	0		

	Reporting Year	2005 Costs	Cumulative Life to Date
<b>D. Program Costs*:</b>			
<i>Utility direct costs (\$):</i>			
<i>Incremental capital:</i>	\$ -		\$ -
<i>Incremental O&amp;M:</i>	\$ 3,520.60		\$ 3,520.60
<i>Incentive:</i>	\$ -		\$ -
<i>Total:</i>	\$ 3,520.60	\$ -	\$ 3,520.60
<i>Utility indirect costs (\$):</i>			
<i>Incremental capital:</i>	\$ -		\$ -
<i>Incremental O&amp;M:</i>	\$ -		\$ -
<i>Total:</i>	\$ -	\$ -	\$ -
<i>Total Utility Cost of Program</i>	\$ 3,520.60	\$ -	\$ 3,520.60

## Appendix B - Discussion of the Program

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

**A. Name of the Program:**

Energy Cruch Kits

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

Energy savings kits including CFL's, weather stripping, wall plugs and draft stoppers. Given out at various events and customers with high bills .

**Measure(s):**

	Measure 1	Measure 2	Measure 3	Measure 4
<i>Base case technology:</i>	60 Watt Incandesent Light Bulb	75W Incandesent Bulb	0.00	0.00
<i>Efficient technology:</i>	CFL replacement 15w	20W CFL	0.00	0.00
<i>Number of participants or units delivered:</i>	500.00	250.00	0.00	0.00
<i>Measure life (years):</i>	4.31	4.31	0.00	0.00
<i>Number of participants or units 2005</i>				
<i>Number of Participants or units delivered life-to-date</i>	500.00	250.00	0.00	0.00

B. <b>TRC Results:</b>	Reporting Year	2005 TRC	Life-to-date TRC
		Results	Results:
<i>TRC Benefits (\$):</i>	\$ 18,535.64		\$ 18,535.64
<i>Measure's Costs (\$):</i>			
<i>Utility program cost (less incentives):</i>	\$ -		\$ -
<i>Incremental Measure Costs (Equipment Costs)</i>	\$ 1,687.50		\$ 1,687.50
<i>Total TRC costs:</i>	\$ 1,687.50	\$ -	\$ 1,687.50
<i>Net TRC (in year CDN \$):</i>	\$16,848.14	\$ -	\$ 16,848.14
<i>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</i>	10.98	#DIV/0!	\$ 10.98

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

**Cumulative Results:**
**Conservation Programs:**

<i>Demand savings (kW):</i>	Summer	0.00	Report Winter Demand (kW)	
	Winter	16.31	0.00	
<i>Energy saved (kWh):</i>	<i>lifecycle</i>	<i>in year</i>	<i>Cumulative Lifecycle</i>	<i>Cumulative Annual Savings</i>
	326,250.00	75,690.00	326250	75690
			<i>2005 Lifecycle</i>	<i>2005 Annual</i>
<i>Other resources saved :</i>				
<i>Natural Gas (m3):</i>	0	0		
<i>Water (l)</i>	0	0		

**D. Program Costs\*:**

		2005 Costs	Cumulative Life
			to Date
<i>Utility direct costs (\$):</i>	<i>Incremental capital:</i>	\$ -	\$ -
	<i>Incremental O&amp;M:</i>	\$ 3,843.00	\$ 3,843.00
	<i>Incentive:</i>	\$ -	\$ -
	<i>Total:</i>	\$ 3,843.00	\$ 3,843.00
<i>Utility indirect costs (\$):</i>	<i>Incremental capital:</i>	\$ -	\$ -
	<i>Incremental O&amp;M:</i>	\$ -	\$ -
	<i>Total:</i>	\$ -	\$ -
<i>Total Utility Cost of Program</i>		\$ 3,843.00	\$ 3,843.00

## Appendix B - Discussion of the Program

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

A. **Name of the Program:** System Optimization Study

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

To map, examine, distribution system componenets and identify oppourtunities for effeciencies and reduce system losses.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
<i>Base case technology:</i>	Existing Distribution System		
<i>Efficient technology:</i>	Identify opportunities for efficiencies		
<i>Number of participants or units delivered:</i>	0.00	0	0
<i>Measure life (years):</i>	0.00		
<i>Number of participants or units 2005</i>	1		
<i>Number of Participants or units delivered life-to-date</i>	1.00		

B. <b>TRC Results:</b>		<u>Reporting Year</u>	<u>2005 TRC Results</u>	<u>Life-to-date TRC Results:</u>
		<sup>1</sup> TRC Benefits (\$):	\$ -	\$ -
<sup>2</sup> TRC Costs (\$):				
	<i>Utility program cost (less incentives):</i>	\$ 12,298.89	\$ 33,442.00	\$ 45,740.89
	<i>Incremental Measure Costs (Equipment Costs)</i>	\$ -	\$ -	\$ -
	<i>Total TRC costs:</i>	\$ 12,298.89	\$ 33,442.00	\$ 45,740.89
	<u>Net TRC (in year CDN \$):</u>	<u>-\$ 12,298.89</u>	<u>-\$ 33,442.00</u>	<u>-\$ 45,740.89</u>
	<i>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</i>	0.00	\$ -	\$ -

C. <b>Results:</b> (one or more category may apply)				<u>Cumulative Results:</u>	
<b>Conservation Programs:</b>					
<i>Demand savings (kW):</i>	<i>Summer</i>	0.00		Report Winter Demand (kW)	
	<i>Winter</i>	0.00		0.00	
<i>Energy saved (kWh):</i>	<i>lifecycle</i>	0.00	<i>in year</i>	<i>Cumulative Lifecycle</i>	<i>Cumulative Annual Savings</i>
			0.00	0	0
				2005 Lifecycle	2005 Annual
<i>Other resources saved :</i>					
	<i>Natural Gas (m3):</i>	0	0		
	<i>Water (l)</i>	0	0		

D. <b>Program Costs*:</b>		<u>Reporting Year</u>	<u>2006 Costs</u>	<u>Cumulative Life to Date</u>
		<i>Utility direct costs (\$):</i>		
	<i>Incremental capital:</i>	\$ -	\$ -	\$ -
	<i>Incremental O&amp;M:</i>	\$ 12,298.89	\$ 33,442.00	\$ 45,740.89
	<i>Incentive:</i>	\$ -	\$ -	\$ -
	<i>Total:</i>	\$ 12,298.89	\$ 33,442.00	\$ 45,740.89
	<i>Utility indirect costs (\$):</i>			
	<i>Incremental capital:</i>	\$ -	\$ -	\$ -
	<i>Incremental O&amp;M:</i>	\$ -	\$ -	\$ -
	<i>Total:</i>	\$ -	\$ -	\$ -
	<i>Total Utility Cost of Program</i>	\$ 12,298.89	33,442.00	45,740.89

# Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Spring Every Kilowatt Counts (EKC) Program

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

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

**Measure(s):**

	Measure 1	Measure 2	Measure 3	Measure 4
<i>Base case technology:</i>	Incandescent bulbs	No Ceiling Fan	Manual On/Off	Manual Thermostats
<i>Efficient technology:</i>	CFLs	Ceiling Fan	Timers	Progr. Thermostats
<i>Number of participants or units delivered:</i>	0.00	0.00	0.00	0.00
<i>Measure life (years):</i>	4.00	20.00	20.00	18.00
<i>Number of participants or units 2005</i>	477	7	84	10
<i>Number of Participants or units delivered life-to-date</i>	477.00	7.00	84.00	10.00

B. <b>TRC Results:</b>	Reporting Year	2005/2006	Life-to-date TRC
		TRC Results	Results:
TRC Benefits (\$):	\$ -	\$ 27,075.03	\$ 27,075.03
Measure's Costs (\$):			
<i>Utility program cost (less incentives):</i>	\$ -	\$ 200.00	\$ 200.00
<i>Incremental Measure Costs (Equipment Costs)</i>	\$ -	\$ 2,760.75	\$ 2,760.75
<i>Total TRC costs:</i>	\$ -	\$ 2,960.75	\$ 2,960.75
<b>Net TRC (in year CDN \$):</b>	\$ 0.00	\$ 24,114.28	\$ 24,114.28
<i>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</i>	#DIV/0!	\$ 9.14	\$ 9.14

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

**Cumulative Results:**

**Conservation Programs:**

Demand savings (kW):	Summer	Winter	Report Winter Demand (kW)	
			Cumulative Lifecycle	Cumulative Annual Savings
		0.00	0.00	0.00
<i>Energy saved (kWh):</i>	<i>lifecycle</i>	<i>in year</i>		
	0.00	0.00	507663.72	61314.41
			05/06 Lifecycle	2005/2006 Annual
			507663.72	61314.41
<i>Other resources saved :</i>				
<i>Natural Gas (m3):</i>	0	0		
<i>Water (l)</i>	0	0		

D. <b>Program Costs*:</b>		2005 Costs	Cumulative Life to
			Date
<i>Utility direct costs (\$):</i>	<i>Incremental capital:</i>	\$ -	\$ -
	<i>Incremental O&amp;M:</i>	\$ -	\$ 200.00
	<i>Incentive:</i>	\$ -	\$ -
	<i>Total:</i>	\$ -	\$ 200.00
<i>Utility indirect costs (\$):</i>	<i>Incremental capital:</i>	\$ -	\$ -
	<i>Incremental O&amp;M:</i>	\$ -	\$ -
	<i>Total:</i>	\$ -	\$ -
<i>Total Utility Cost of Program</i>		\$ -	\$ 200.00

E. **Assumptions & Comments:**

Results include both direct mail and in-store coupons. Breakdown is as follows: Direct Mail: 94 coupons - CFL's 73, Timers 10, Pststats 8



## Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Customer Survey

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

Customer survey undertaken with members of the Cornerstone Hydroelectric Concepts group.

**Measure(s):**

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

B. <b>TRC Results:</b>	Reporting Year	2005/2006	Life-to-date TRC
		TRC Results	Results:
<sup>1</sup> TRC Benefits (\$):	\$ -		\$ -
<sup>2</sup> TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 1,000.00	\$ 1,000.00
Incremental Measure Costs (Equipment Costs)	\$ -		\$ -
Total TRC costs:	\$ -	\$ 1,000.00	\$ 1,000.00
<b>Net TRC (in year CDN \$):</b>	\$ -	-\$ 1,000.00	-\$ 1,000.00
<b>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</b>	#DIV/0!	\$ -	\$ -

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

**Conservation Programs:**

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

D. <b>Program Costs*:</b>	Reporting Year	05/06 Costs	Cumulative Life
		to Date	
Utility direct costs (\$):			
Incremental capital:	\$ -		\$ -
Incremental O&M:	\$ -	\$ 1,000.00	\$ 1,000.00
Incentive:	\$ -		\$ -
Total:	\$ -	\$ 1,000.00	\$ 1,000.00
Utility indirect costs (\$):			
Incremental capital:	\$ -		\$ -
Incremental O&M:	\$ -		\$ -
Total:	\$ -	\$ -	\$ -
<b>Total Utility Cost of Program</b>	\$ -	1,000.00	1,000.00

E. **Assumptions & Comments:**

Survey undertaken for future planning of programs.

## Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Energy Management Workshop

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

• To provide some practical ideas and tools to help small and medium industrial companies to actively manage and reduce energy consumption. Provided in partnership with Ministry of Economic Development and Trade and Hydro One

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
<i>Base case technology:</i>	Lack of Information		
<i>Efficient technology:</i>	Information for Industrial customers		
<i>Number of participants or units delivered:</i>	1.00	0	0
<i>Measure life (years):</i>	0.00		
<i>Number of participants or units 2005</i>			
<i>Number of Participants or units delivered life-to-date</i>	1.00		

B. <b>TRC Results:</b>		Reporting Year	2005/2006	Life-to-date
			TRC Results	TRC Results:
<sup>1</sup> TRC Benefits (\$):		\$ -		\$ -
<sup>2</sup> TRC Costs (\$):				
	<i>Utility program cost (less incentives):</i>	\$ -	\$ 1,000.00	\$ 1,000.00
	<i>Incremental Measure Costs (Equipment Costs)</i>	\$ -	\$ -	\$ -
	<i>Total TRC costs:</i>	\$ -	\$ 1,000.00	\$ 1,000.00
	<i>Net TRC (in year CDN \$):</i>	\$ -	-\$ 1,000.00	-\$ 1,000.00
	<i>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</i>	#DIV/0!	\$ -	\$ -

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

**Cumulative Results:**

**Conservation Programs:**

Demand savings (kW):	Summer	0.00	Report Winter Demand (kW)	
			Winter	0.00
			Cumulative Lifecycle	Cumulative Annual Savings
<i>Energy saved (kWh):</i>	<i>lifecycle</i>	<i>in year</i>	0	0
	0.00	0.00	2005 Lifecycle	2005 Annual
<i>Other resources saved :</i>				
	<i>Natural Gas (m3):</i>	0	0	
	<i>Water (l)</i>	0	0	

D. <b>Program Costs*:</b>		Reporting Year	05/06 Costs	Cumulative Life
			to Date	
<i>Utility direct costs (\$):</i>	<i>Incremental capital:</i>	\$ -		\$ -
	<i>Incremental O&amp;M:</i>	\$ -	\$ 1,000.00	\$ 1,000.00
	<i>Incentive:</i>	\$ -		\$ -
	<i>Total:</i>	\$ -	\$ 1,000.00	\$ 1,000.00
<i>Utility indirect costs (\$):</i>	<i>Incremental capital:</i>	\$ -		\$ -
	<i>Incremental O&amp;M:</i>	\$ -		\$ -
	<i>Total:</i>	\$ -	\$ -	\$ -
<i>Total Utility Cost of Program</i>		\$ -	1,000.00	1,000.00

## Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Fall Every Kilowatt Counts (EKC) Program

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

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

**Measure(s):**

	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
Base case technology:	Manual Thermostats	On/Off Switch	Incandescent bulbs	0.00	Manual Thermostat	Incandescent seasonal lights
Efficient technology:	BaseBoard Programmable Thermostats	Dimmers	CFL's	Motion Sensor	Programmable Thermostat	Seasonal LED Lights
Number of participants or units delivered:	0.00	0.00	0.00	0.00	0.00	0.00
Measure life (years):	18.00	10.00	4.00	20.00	18.00	30.00
Number of participants or units 2005	13	6	4276	6	87	1661
Number of Participants or units delivered life-to-date	13.00	6.00	4,276.00	6.00	87.00	1,661.00

B. <b>TRC Results:</b>	Reporting Year	2005/2006 TRC Results	
		2005	2006
TRC Benefits (\$):	\$ -	\$ 185,755.00	\$ 185,755.00
Measure's Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 1,250.00	\$ 1,250.00
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 1,250.00	\$ 1,250.00
<b>Net TRC (in year CDN \$):</b>	<b>\$0.00</b>	<b>\$ 184,505.00</b>	<b>\$ 184,505.00</b>
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ 148.60	\$ 148.60

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

**Cumulative Results:**

**Conservation Programs:**

Demand savings (kW):	Summer	0.00	Report Winter Demand (kW)	
	Winter	0.00	0.00	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
			3551731	479349
	0.00	0.00	05/06 Lifecycle	05/06 Annual
Other resources saved :			3551731	479349
Natural Gas (m3):	0	0		
Water (l)	0	0		

D. <b>Program Costs*:</b>		2005 Costs		Cumulative Life
		2005	2006	to Date
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -	\$ -
	Incremental O&M:	\$ -	\$ 1,250.00	\$ 1,250.00
	Incentive:	\$ -	\$ -	\$ -
	Total:	\$ -	\$ 1,250.00	\$ 1,250.00
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -	\$ -
	Total:	\$ -	\$ -	\$ -
<b>Total Utility Cost of Program</b>		\$ -	\$ 1,250.00	\$ 1,250.00

## Appendix B - Discussion of the Program

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

A. **Name of the Program:** Switch to Cold Water Wash Coupon Program

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

An energy conservation program aimed at providing a coupon rebate to residential customers for the purchase of Coldwater Tide. Coupon included in residential billing insert and redeemable at any participating store where Coldwater Tide is sold.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Warm Water Clothes Washing		
Efficient technology:	Warm Water Clothes Washing		
Number of participants or units delivered:	0.00	0	0
Measure life (years):	1.00		
Number of participants or units 2005	5086		
Number of Participants or units delivered life-to-date	5,086.00		

**TRC Results:**

	Reporting Year	2005/2006 TRC Results	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ -	\$ 553.76	\$ 553.76
<sup>2</sup> TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 500.00	\$ 500.00
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 500.00	\$ 500.00
<b>Net TRC (in year CDN \$):</b>	<b>\$ -</b>	<b>\$ 53.76</b>	<b>\$ 53.76</b>
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ 1.11	\$ 1.11

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

**Cumulative Results:**

**Conservation Programs:**

Demand savings (kW):	Summer	0.00	Report Winter Demand (kW)	
	Winter	0.00	0.00	
			Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):	lifecycle	in year	7800	7800
	0.00	0.00	2005 Lifecycle	2005 Annual
			7800	7800
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

D. **Program Costs\*:**

		Reporting Year	05/06 Costs	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -	\$ -
<small>Includes Measure's Cost - ensure full cost of measure entered in TRC:L15</small>	Incremental O&M:	\$ -	\$ 500.00	\$ 500.00
	Incentive:	\$ -	\$ -	\$ -
	Total:	\$ -	\$ 500.00	\$ 500.00
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -	\$ -
	Total:	\$ -	\$ -	\$ -
<b>Total Utility Cost of Program</b>		<b>\$ -</b>	<b>500.00</b>	<b>500.00</b>

## Appendix B - Discussion of the Program

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

A. **Name of the Program:** Energy Audits/Projects

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

Purchase and loaner program for two pieces of equipment that consumers can use to measure and monitor energy consumption.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Lack of Energy Measurement Equipment		
Efficient technology:	Energy Self Audit Equipment		
Number of participants or units delivered:	0.00	0	0
Measure life (years):	0.00		
Number of participants or units 2005	1		
Number of Participants or units delivered life-to-date	1.00		

B.	<b>TRC Results:</b>	<b>Reporting Year</b>	<b>Life-to-date</b>	
			<b>2005/2006 TRC Results</b>	<b>TRC Results:</b>
	<sup>1</sup> TRC Benefits (\$):	\$ -	\$ -	\$ -
	<sup>2</sup> TRC Costs (\$):			
	Utility program cost (less incentives):	\$ -	\$ 1,560.00	\$ 1,560.00
	Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
	Total TRC costs:	\$ -	\$ 1,560.00	\$ 1,560.00
	<b>Net TRC (in year CDN \$):</b>	\$ -	-\$ 1,560.00	-\$ 1,560.00
	<b>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</b>	#DIV/0!	\$ -	\$ -

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

**Cumulative Results:**

**Conservation Programs:**

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

D.	<b>Program Costs*:</b>		<b>Reporting Year</b>	<b>Cumulative</b>	
				<b>2005 Costs</b>	<b>Life to Date</b>
	Utility direct costs (\$):	Incremental capital:	\$ -	\$ -	\$ -
	Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	Incremental O&M:	\$ -	\$ 1,560.00	\$ 1,560.00
		Incentive:	\$ -	\$ -	\$ -
		Total:	\$ -	\$ 1,560.00	\$ 1,560.00
	Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -	\$ -
		Incremental O&M:	\$ -	\$ -	\$ -
		Total:	\$ -	\$ -	\$ -
	<b>Total Utility Cost of Program</b>		\$ -	1,560.00	1,560.00

## Appendix B - Discussion of the Program

(complete this section for each program)

**A. Name of the Program:**

Lighten Your Electricity Bill Coupon Program

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

• A 2005 project. An energy conservation program aimed at providing a coupon rebate to residential customers for the purchase of various energy savings products.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Existing Technology		
Efficient technology:	Energy Efficient Upgrades		
Number of participants or units delivered:	0.00	0	0
Measure life (years):	0.00		
Number of participants or units 2005	648		
Number of Participants or units delivered life-to-date	648.00		

**TRC Results:**

B.		Reporting Year	2005/2006 TRC	Life-to-date
			Results	TRC Results:
1	TRC Benefits (\$):	\$ -	\$ 26,242.00	\$ 26,242.00
2	TRC Costs (\$):			
	Utility program cost (less incentives):	\$ -	\$ 1,153.00	\$ 1,153.00
	Incremental Measure Costs (Equipment Costs)	\$ -	\$ 2,829.00	\$ 2,829.00
	Total TRC costs:	\$ -	\$ 3,982.00	\$ 3,982.00
	Net TRC (in year CDN \$):	\$ -	\$ 22,260.00	\$ 22,260.00
	Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ 6.59	\$ 6.59

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

**Cumulative Results:**
**Conservation Programs:**

Demand savings (kW):	Summer	0.00	Report Winter Demand (kW)	
	Winter	0.00	0.00	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
			0.00	0.00
			05/06 Lifecycle	05/06 Annual
			562621	62654
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

**D. Program Costs\*:**

		Reporting Year	2005 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:	\$ -	\$ 1,153.00	\$ 1,153.00
	Incentive:	\$ -	\$ 1,774.00	\$ 1,774.00
	Total:	\$ -	\$ 2,927.00	\$ 2,927.00
	Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -	\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ -	2,927.00	2,927.00

## Appendix B - Discussion of the Program

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

A. **Name of the Program:** Smart Metering Study

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

This is a 2005 Program. This program involved a technical evaluation of smart metering technology. In conjunction with approximately thirty-five LDC's working together in the Ontario Utilities Smart Metering Project (OUSM) various technologies were examined.

**Measure(s):**

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

<b>TRC Results:</b>		<b>Reporting Year</b>	<b>2005 TRC Results</b>	<b>Life-to-date TRC Results:</b>
B.	<sup>1</sup> TRC Benefits (\$):	\$ -	\$ -	\$ -
	<sup>2</sup> TRC Costs (\$):			
	Utility program cost (less incentives):	\$ -	\$ 5,128.24	\$ 5,128.24
	Incremental Measure Costs (Equipment Costs)	\$ -		\$ -
	Total TRC costs:	\$ -	\$ 5,128.24	\$ 5,128.24
	Net TRC (in year CDN \$):	\$ -	-\$ 5,128.24	-\$ 5,128.24
	Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

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

**Conservation Programs:**

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

<b>Program Costs*:</b>		<b>Reporting Year</b>	<b>2005 Costs</b>	<b>Cumulative Life to Date</b>
Utility direct costs (\$): <i>Includes Measure's Cost - ensure full cost of measure entered in TRC:L15</i>	Incremental capital:	\$ -		\$ -
	Incremental O&M:		\$ 5,128.24	\$ 5,128.24
	Incentive:	\$ -		\$ -
	Total:	\$ -	\$ 5,128.24	\$ 5,128.24
Utility indirect costs (\$):	Incremental capital:	\$ -		\$ -
	Incremental O&M:	\$ -		\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ -	5,128.24	5,128.24

## Appendix B - Discussion of the Program

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

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

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

In partnership with members of the CHEC group and one other LDC a re-print of the Ministry of Energy's conservation brochure for residential customers was reprinted and distributed.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Lack of Educational Material		
Efficient technology:	Customer information Brochure		
Number of participants or units delivered:	0.00	0	0
Measure life (years):	0.00		
Number of participants or units 2005	3000		
Number of Participants or units delivered life-to-date	3,000.00		

B. <b>TRC Results:</b>	Reporting Year	2005/2006	Life-to-date
		TRC Results	TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ -	\$ -	\$ -
<sup>2</sup> TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 1,188.00	\$ 1,188.00
Incremental Measure Costs (Equipment Costs)	\$ -		\$ -
Total TRC costs:	\$ -	\$ 1,188.00	\$ 1,188.00
Net TRC (in year CDN \$):	\$ -	-\$ 1,188.00	-\$ 1,188.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

C. <b>Results:</b> (one or more category may apply)			Cumulative Results:	
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer	0.00	Report Winter Demand (kW)	
	Winter	0.00	0.00	
Energy saved (kWh):	lifecycle	0.00	Cumulative Lifecycle	Cumulative Annual Savings
	in year	0.00	0	0
Other resources saved :			2005 Lifecycle	2005 Annual
	Natural Gas (m3):	0		
	Water (l)	0		

D. <b>Program Costs*:</b>		Reporting Year	2005 Costs	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:	\$ -		\$ -
<i>Includes Measure's Cost - ensure full cost of measure entered in TRC:L15</i>				
	Incremental O&M:	\$ -	\$ 1,188.00	\$ 1,188.00
	Incentive:	\$ -		\$ -
	Total:	\$ -	\$ 1,188.00	\$ 1,188.00
Utility indirect costs (\$):	Incremental capital:	\$ -		\$ -
	Incremental O&M:	\$ -		\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ -	1,188.00	1,188.00



# Appendix B - Discussion of the Program

(complete this section for each program)

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

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

•A 2005 Project. A cooperative initiative with the CHEC group members. The intent is to provide a educational/resource for items relating to energy conservation for all of our customer classes. .

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	No Existing Website		
Efficient technology:	Conservation Website		
Number of participants or units delivered:	1.00	0	0
Measure life (years):	0.00		
Number of participants or units 2005	0		
Number of Participants or units delivered life-to-date	1.00		

B. <b>TRC Results:</b>	Reporting Year	2005 TRC	Life-to-date
		Results	TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ -	\$ -	\$ -
<sup>2</sup> TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 3,672.00	\$ 3,672.00
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 3,672.00	\$ 3,672.00
Net TRC (in year CDN \$):	\$ -	-\$ 3,672.00	-\$ 3,672.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

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

**Cumulative Results:**

**Conservation Programs:**

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

D. <b>Program Costs*:</b>	Reporting Year	2005 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:	\$ 3,672.00	\$ 3,672.00
	Incentive:	\$ -	\$ -
	Total:	\$ 3,672.00	\$ 3,672.00
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -
	Total:	\$ -	\$ -
Total Utility Cost of Program		\$ 3,672.00	\$ 3,672.00