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

Conservation and Demand Management
2007 Annual Report

1.0 Introduction:

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

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

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

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

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

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

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

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

2.0 CHEC Members:

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

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

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

3.0 Evaluation of the CDM Plan:

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

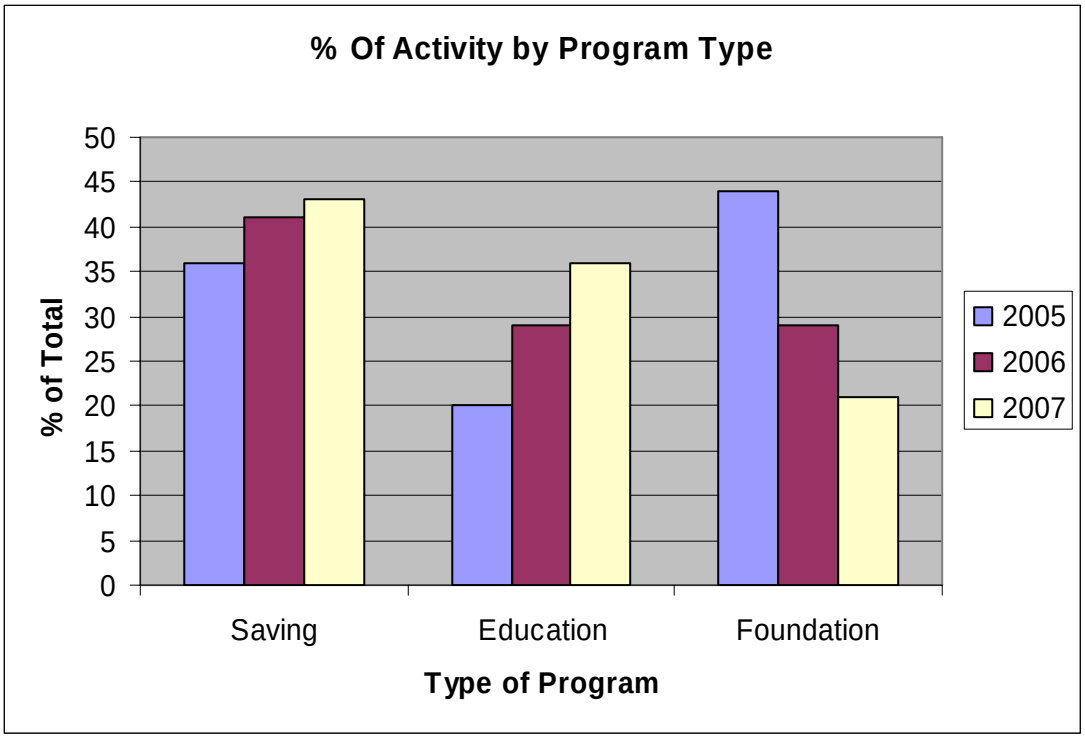
- Savings: Delivery of energy saving products or processes: coupons, rebates, free products, etc.
- Education: Providing general energy management information through such activities as: website development, workshops, brochures, school programs, etc,
- Foundation: Preparatory work for future programs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

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

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

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

Figure 1



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

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

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

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

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

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

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

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

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

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

4.0 Discussion of Programs:

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

5.0 Lessons Learned:

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

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

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

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

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

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

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

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

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

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

6.0 Conclusion:

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

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

7.0 Appendices:

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Centre Wellington Hydro Ltd.
RP-2004-0203\ED-2002-0498
2007 Conservation and Demand Annual Report
Third Tranche Funding

Introduction:

Centre Wellington is pleased to submit our 2007 Annual Report on the final expenditures made in applying the third tranche ($59,793) monies to conservation and demand management programs. Attached to this report is Appendix A – Evaluation of the CDM Plan, along with Appendix B – Discussion of the Program for the individual programs and Appendix C – Program Portfolio Totals. Centre Wellington Hydro has submitted its conservation and demand management plan with the CHEC Group (Cornerstone Hydro Electric Concepts) and has received a final order dated February 8, 2005 approving the spending.

This report represents the final report on Centre Wellington Hydro's Third Tranche CDM Program. The total amount of $59,793 has been invested in conservation initiatives over the three year period helping to create the Conservation Culture in Ontario.

Evaluation of the CDM Plan:

The 2007 CDM activity resulted in a positive TRC of $23,400 and a lifecycle kWh savings of 906,800. The program in addition to continuing to foster a conservation culture included technology exchange that result in reduced kWh consumption as noted.

The investment of the third tranche funding over the three year period of the program has resulted in a TRC of $226,935 and a lifecycle kWh savings of 6,165,370. In addition to the resulting savings the program helped to foster the conservation culture by making over 9,000 customer contacts over the lifetime of the program. This number is understated as incidental contacts from promotion materials are not accounted for. The third tranche program funding provided to Centre Wellington and all LDCs across the province have assisted with raising the awareness of conservation and helped position the LDCs and OPA for continued support of conservation initiatives.

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

Discussion of Programs:

The 2007 programs utilized an Energy Crunch Kit to provide energy efficiency technology to customers. In addition to providing CFLs for residential use the kits also provided product for reducing air leakage. The two fold approach helped to reinforce with customers that conservation is more than just changing

your light bulbs. The kits were utilized in a number of outreach opportunities with customers including public events and school programs.

Centre Wellington had the opportunity to deliver a school program to five schools in the service territory. This program helped to reinforce the conservation message with the youth and to carry the message back to the home.

In 2007 Centre Wellington partnered with the Green Communities Group and the OPA to provide enhanced measures to qualified low income housing. Unfortunately this program, because of the criteria developed for the program did not result in a large number of measures being implemented. The contractor indicated that with the focus on electric heat houses and the income level it was difficult to find qualifying parties. When qualifying parties were found many of the homes were determined to be sufficiently insulated removing the need for enhanced measures.

The streetlight conversion continued with 35 units being converted in 2007. The change in technology highlights to the municipality opportunities for savings. The municipality as a major operator of facilities represents a partner that through audits and implementation of programs can demonstrate to the community the opportunities for energy savings.

Lessons Learned:

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

The criteria set for any program, as illustrated by the Low Income Program, requires consideration to ensure that a sufficient population will qualify to ensure the success of the program. While the program did not reach many participants, Centre Wellington continues to support initiatives that would reach customers that may be most impacted by increases in energy costs. The lessons learned from this program will assist the LDCs and the OPA with future programs.

Access to commercial and industrial customers continues to be challenging. While completing audits assist industrial and commercial customers to set direction, implementation continues to be a challenge. By providing audits through third tranche it is anticipated that programs such as ERIP will assist with customers moving forward with implementation.

Conclusions:

The third tranche funding has provided both kWh savings and has supported the development of the "Conservation Culture" in Ontario. The third tranche funding in the Centre Wellington service area has

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involved customers in programs, provided information and education support and provided a base awareness to support the continued development of the conservation culture and the implementation of kWh savings into the future.

The investment of third tranche funding has established Centre Wellington as a local source for conservation assistance for the community. Through continued involvement in the OPA funded programs Centre Wellington will continue to support the conservation culture.

Yours truly,

Florence Thiessen

Florence Thiessen
Vice President / Treasurer
Centre Wellington Hydro Ltd.

Appendix A - Evaluation of the CDM Plan

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

	[5] Cumulative Totals Life-to-date	Total for 2007	Residential	Commercial	Institutional	Industrial	Agricultural	LDC System	[4] Smart Meters	Other #1	Other #2
Net TRC value ($):	*226,935.01*	**$ 23,411**	**$ 28,765**	**$ -**	**$ (4,287)**	**$ (1,067)**	**$ -**	**$ -**		**$ -**	**$ -**
Benefit to cost ratio:	*4.19*	1.99	3.30	0.00	0.58	0.00	0.00	0.00		0.00	0.00
Number of participants or units delivered:	*9,689*	*1,538*	1,503	0	35	0	0	0		0	0
Lifecycle (kWh) Savings:	*6,165,372.78*	906,810	719,970	0	186,840	0	0	0		0	0
Report Year Total kWh saved (kWh):	*838,693.44*	163,875	154,533	0	9,342	0	0	0		0	0
Total peak demand saved (kW):		51	41	0	9	0	0	0		0	0
Total kWh saved as a percentage of total kWh delivered (%):	*0.52%*	0.10%	0.33%	0.00%	0.13%	0.00%	0.00%	0.00%		0.00%	0.00%
Peak kW saved as a percentage of LDC peak kW load (%):		0.18%	0.15%	0.00%	0.03%	0.00%	0.00%	0.00%		0.00%	0.00%
[1] *Report Year Gross C&DM expenditures ($):*	*59,792.53*	$ 28,719	$ 17,530	$ -	$ 10,121	$ 1,067	$ -	$ -	$ -	$ -	$ -
[2] *Expenditures per KWh saved ($/kWh):*	$ 0.01	$ 0.03	$ 0.02	$ -	$ 0.05	$ -	$ -	$ -		$ -	$ -
[3] *Expenditures per KW saved ($/kW):*		$ 564.82	$ 422.56	$ -	$ 1,081.30	$ -	$ -	$ -		$ -	$ -

Utility discount rate (%):	8.13

[1] Expenditures are reported on accrual basis.
[2] Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate energy savings.
[3] Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate capacity savings.
[4] Please report spending related to 3rd tranche of MARR funding only. TRC calculations are not required for Smart Meters. Only actual expenditures for the year need to be reported.
[5] Includes total for the reporting year, plus prior year, if any (for example, 2006 CDM Annual report for third tranche will include 2005 and 2004 numbers, if any.

Appendix C - Program and Portfolio Totals

Report Year: 2007

1. Residential Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
Education & Promotion	$ -	$ 3,219	-$ 3,219	0.00	0	0	0	$ 3,219
Residential Appliance Saturation Su	$ -	$ -	$ -	0.00	0	0	0	$ -
Fall 2006 Every Kilowatt Counts (EK	$ -	$ -	$ -	0.00	0	0	0	$ -
Conservation Web Site (All Classes	$ -	$ 2,668	-$ 2,668	0.00	0	0	0	$ 2,668
Decorative Lighting Efficiency	$ -	$ -	$ -	0.00	0	0	0	$ -
Lighten Your Electricity Bill (Residen	$ -	$ -	$ -	0.00	0	0	6	$ -
Spring Every Kilowatt Counts (EKC)	$ -	$ -	$ -	0.00	0	0	0	$ -
Energy Crunch Conservation Kits	$ 38,674	$ 3,375	$ 35,299	11.46	151,380	652,500	33	$ 7,770
Low Income Housing Add-On to GC.	$ 2,600	$ 3,248	-$ 647	0.80	3,153	67,470	2	$ 3,874
Name of Program J			$ -	0.00				
***Totals App. B - Residential**	$ 41,274	$ 12,509	$ 28,765	3.30	154,533	719,970	41	$ 17,530
Residential Indirect Costs not attributable to any specific program →		$ -		*Total Residential kWh Delivered in 2007*		46,699,000.00		
Total Residential TRC Costs		$ 12,509			System Peak in 2007		27,574	
****Totals TRC - Residential**	**$ 41,274**	**$ 12,509**	**$ 28,765**	**3.30**				

2. Commercial Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
Name of Program A			$ -	0.00				
Name of Program B			$ -	0.00				
Name of Program C			$ -	0.00				
Name of Program D			$ -	0.00				
Name of Program E			$ -	0.00				
Name of Program F			$ -	0.00				
Name of Program G			$ -	0.00				
Name of Program H			$ -	0.00				
Name of Program J			$ -	0.00				
***Totals App. B -**	$ -	$ -	$ -	0.00	0	0	0	$ -
Commercial Indirect Costs not attributable to any specific program →				*Total Commercial kWh Delivered in 2007*				
Total TRC Costs		$ -			System Peak in 2007		27,574	
****Totals TRC - Commercial**	**$ -**	**$ -**	**$ -**	**0.00**				

3. Institutional Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
Streetlight Conversion	$ 5,834	$ 10,121	-$ 4,287	0.58	9,342	186,840	9	$ 10,121
Name of Program B			$ -	0.00				
Name of Program C			$ -	0.00				
Name of Program D			$ -	0.00				
Name of Program E			$ -	0.00				
Name of Program F			$ -	0.00				
Name of Program G			$ -	0.00				
Name of Program H			$ -	0.00				
Name of Program I			$ -	0.00				
Name of Program J			$ -	0.00				
***Totals App. B -**	$ 5,834	$ 10,121	-$ 4,287	0.58	9,342	186,840	9	$ 10,121

Institutional Indirect Costs not attributable to any specific program	→				*Total Institutional kWh Delivered in 2007*		7,109,797.00
Total TRC Costs		$ 10,121				System Peak in 2007	27,574
****Totals TRC - Institutional**	**$ 5,834**	**$ 10,121**	**-$ 4,287**	**0.58**			

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 ($)
Industrial Energy Audit	$ -	$ 1,067	-$ 1,067	0.00	0	0	0	$ 1,067
Name of Prorgam B			$ -	0.00				
Name of Program C			$ -	0.00				
Name of Program D			$ -	0.00				
Name of Program E			$ -	0.00				
Name of Program F			$ -	0.00				
Name of Program G			$ -	0.00				
Name of Program H			$ -	0.00				
Name of Program I			$ -	0.00				
Name of Program J			$ -	0.00				
***Totals App. B -**	$ -	$ 1,067	-$ 1,067	0.00	0	0	0	$ 1,067
Industrial Indirect Costs not attributable to any specific program	→				*Total Industrial kWh Delivered in 2007*		106,014,060.00	
Total TRC Costs		$ 1,067				System Peak in 2007	27,574	
****Totals TRC - Industrial**	**$ -**	**$ 1,067**	**-$ 1,067**	**0.00**				

5. Agricultural Programs

List each Appendix B in the cells below; Insert additional rows as required.
Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
Name of Program A			$ -	0.00				
Name of Program B			$ -	0.00				
Name of Program C			$ -	0.00				
Name of Program D			$ -	0.00				
Name of Program E			$ -	0.00				
Name of Program G			$ -	0.00				
Name of Program J			$ -	0.00				
***Totals App. B -**	$ -	$ -	$ -	0.00	0	0	0	$ -
Agricultural Indirect Costs not attributable to any specific program	→				*Total Agricultural kWh Delivered in 2007*			
Total TRC Costs		$ -				System Peak in 2007	27,574	
****Totals TRC - Agricultural**	**$ -**	**$ -**	**$ -**	**0.00**				

6. LDC System Programs

List each Appendix B in the cells below; Insert additional rows as required.
Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
Name of Program A			$ -	0.00				
Name of Program B			$ -	0.00				
Name of Program E			$ -	0.00				
Name of Program F			$ -	0.00				
Name of Program J			$ -	0.00				
***Totals App. B -**	$ -	$ -	$ -	0.00	0	0	0	$ -
LDC System Indirect Costs not attributable to any specific program	→				*Total Losses kWh Delivered in 2007*			
Total TRC Costs		$ -				System Peak in 2007	27,574	
****Totals TRC - LDC System**	**$ -**	**$ -**	**$ -**	**0.00**				

7. Smart Meters Program

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

Report Year Gross C&DM Expenditures ($) →

8. Other #1 Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
Name of Program A			$ -	0.00				
Name of Program B			$ -	0.00				
Name of Program C			$ -	0.00				
Name of Program G			$ -	0.00				
Name of Program J			$ -	0.00				
***Totals App. B -**	$ -	$ -	$ -	0.00	0	0	0	$ -
Other #1 Indirect Costs not attributable to any specific program →				*Total Other kWh Delivered in 2007*				
Total TRC Costs		$ -			System Peak in 2007		27,574	
****Totals TRC - Other #1**	**$ -**	**$ -**	**$ -**	**0.00**				

9. Other #2 Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
Name of Program A			$ -	0.00				
Name of Program B			$ -	0.00				
Name of Program C			$ -	0.00				
Name of Program H			$ -	0.00				
Name of Program I			$ -	0.00				
Name of Program J			$ -	0.00				
***Totals App. B -**	$ -	$ -	$ -	0.00	0	0	0	$ -
Other #2 Indirect Costs not attributable to any specific program →				*Total Other kWh Delivered in 2007*				
Total TRC Costs		$ -			System Peak in 2007		27,574	
****Totals TRC - Other #2**	**$ -**	**$ -**	**$ -**	**0.00**				

LDC's CDM PORTFOLIO TOTALS

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
***TOTALS FOR ALL APPENDIX B**	$ 47,109	$ 23,698	$ 23,411	1.99	$ 163,875	$ 906,810	$ 51	$ 28,719
*Any **other** Indirect Costs not attributable to any specific program* →				*Total kWh Delivered in 2007*			159,823,000.00	
TOTAL ALL LDC COSTS		$ 23,698			System Peak in 2007		27,574	
****LDC' PORTFOLIO TRC**	$ 47,109	$ 23,698	$ 23,411	1.99				
				Total kWh Delivered 05/06				

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

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

Appendix B - Discussion of the Program

(complete this section for each program)

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

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

Centre Wellington sponsored Conservation and Electrical School Safety presentations to 5 local schools in 2007. In previous years Centre Wellington initiated a project to educate customers on some energy conservation ideas. We had half price admission tickets to "An Inconvenient Truth" at a local theatre. We also presented a couple of evening sessions explaining the benefits of smart metering and use of low energy lighting. We advertised in two local papers. We also purchased moniters to help customers understand consumption for different appliances and purchased movies "An Inconvenient Truth" and "What happened to the Electric Car" to lend to customers.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	0		
Number of participants or units delivered:	0.00		
Measure life (years):	0.00		
Number of participants/units 05&06	300		
Number of Participants or units delivered life-to-date	300.00		

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 3,219.00	$ 11,211.45	$ 14,430.45
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ 3,219.00	$ 11,211.45	$ 14,430.45
Net TRC (in year CDN $):	-$ 3,219.00	-$ 11,211.45	-$ 14,430.45
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	$ -	$ -

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

Cumulative Results:

Conservation Programs:

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

Winter 0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0

Total 05&06 Lifecycle	*05&06 Annual*

Other resources saved :

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

Demand Management Programs:

Controlled load (kW)

Energy shifted On-peak to Mid-peak (kWh):

Energy shifted On-peak to Off-peak (kWh):

Energy shifted Mid-peak to Off-peak (kWh):

Demand Response Programs:

Dispatchable load (kW):

Peak hours dispatched in year (hours):

Power Factor Correction Programs:

Amount of KVar installed (KVar):

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

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	**Total 05&06 Costs**	**Cumlative Life to Date**
Utility direct costs ($):	*Incremental capital:*	$ 3,219.00		$ 3,219.00
	Incremental O&M:	$ -	$ 11,211.45	$ 11,211.45
	Incentive:	$ -		$ -
	Total:	$ 3,219.00	$ 11,211.45	$ 14,430.45
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 3,219.00	11,211.45	14,430.45

E. Assumptions & Comments:

1 Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit b

2 For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

Appendix B - Discussion of the Program

(complete this section for each program)

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

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

In 2007 Programable Thermostats were provided as part of an energy saving program. In previous years Centre Wellington had a staff member perform energy audits for industrial customers to aid and sugest how to conserve energy and save money.

Measure(s):

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

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 1,067.39	$ 3,447.73	$ 4,515.12
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ 1,067.39	$ 3,447.73	$ 4,515.12
Net TRC (in year CDN $):	-$ 1,067.39	-$ 3,447.73	-$ 4,515.12
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	$ -	$ -

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

Conservation Programs:

			Cumulative Results:	
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
			2005/2006 Lifecycle	*2005/2006 Annual*

Other resources saved :

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

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	20052006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*Incremental O&M:*	$ 1,067.39	$ 3,447.73	$ 4,515.12
	Incentive:			$ -
	Total:	$ 1,067.39	$ 3,447.73	$ 4,515.12
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 1,067.39	3,447.73	4,515.12

E. Assumptions & Comments:

1 Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit b

2 For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

Appendix B - Discussion of the Program

(complete this section for each program)

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

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

As part of the CHEC group Centre Wellington participated in a Residential Appliance Survey.

Measure(s):

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

B. **TRC Results:**

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

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	0.00	Report 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
			2005 Lifecycle	*2005 Annual*

Other resources saved :

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

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

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

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	**2005/2006 Costs**	**Cumlative Life to Date**
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*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:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	1,000.00	1,000.00

E. Assumptions & Comments:

1 Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit b

2 For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Fall 2006 Every Kilowatt Counts (EKC) Program

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

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

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
Base case technology:	0	0.00	0.00	0.00	0.00	0.00
Efficient technology:	CFLs	LED Christmas Lights	iable Thermostats, heati	pStat Baseboard	Dimmer	Motion Sensor
Number of participants or units delivered:	0.00	0.00	0.00	0.00	0.00	0.00
Measure life (years):	4.00	30.00	18.00	18.00	10.00	20.00
Number of participants or units 05/06	3638	1852	55	2	39	16
Number of Participants or units delivered life-to-date	3,638.00	1,852.00	55.00	2.00	39.00	16.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*		$ 165,605.06	$ 165,605.06
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ -		$ -
Participant cost:		$ 13,280.43	$ 13,280.43
Total TRC costs:	$ -	$ 13,280.43	$ 13,280.43
Net TRC (in year CDN $):	$0.00	$ 152,324.63	$ 152,324.63
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 12.47	$ 12.47

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

Cumulative Results:

Conservation Programs:

Demand savings (kW): *Summer* | *Winter*

Report Summer Demand (kW)

0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	3524255.66	429334.25
			2005 Lifecycle	*2005 Annual*
			3524255.66	429334.25

Other resources saved :

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

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

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

E. **Comments:**

Direct Mail Coupons were: CFLs - 162, Timers - 9, Fstats - 8, Fans - 13 = 192 In-store Coupons were: CFLs - 1410, Timers - 29, Pstats - 5, Fans - 11 = 1455

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit b

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Conservation Web Site (All Classes

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

Members of the CHEC group and their customers share a common conservation WEB Page. Customers have a location where they can find information and links to a wide variety of conservation initiatives, programs and technologies.

Measure(s):

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

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 2,667.60	$ 2,839.15	$ 5,506.75
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ 2,667.60	$ 2,839.15	$ 5,506.75
Net TRC (in year CDN $):	-$ 2,667.60	-$ 2,839.15	-$ 5,506.75
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	$ -	$ -

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	0.00	Report Summer Demand (kW)	
	Winter	0.00	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0
			Total 05&06 Lifecycle	*05&06 Annual*

Other resources saved :

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

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

Amount of KVar installed (KVar):	

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*			$ -
	Incremental O&M:	$ 2,667.60	$ 2,839.15	$ 5,506.75
	Incentive:	$ -		$ -
	Total:	$ 2,667.60	$ 2,839.15	$ 5,506.75
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 2,667.60	2,839.15	5,506.75

E. Assumptions & Comments:

1 Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit b

2 For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Decorative Lighting Efficiency

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

Replace seasonal incandescent lighting to LED lighting

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	candescent Decorative Lighting		
Efficient technology:	LED Decorative Lighting		
Number of participants or units delivered:			
Measure life (years):	30.00		
Number of participants or units 2005	102		
Number of Participants or units delivered life-to-date	102.00		

B. **TRC Results:**

	Reporting Year	2005 TRC Results	Life-to-date TRC Results:
[1] *TRC Benefits ($):*		$ 1,520.65	$ 1,520.65
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -	$ 79.80	$ 79.80
Incremental Measure Costs (Equipment Costs)		$ 114.00	$ 114.00
Total TRC costs:	$ -	$ 193.80	$ 193.80
Net TRC (in year CDN $):	$ -	$ 1,326.85	$ 1,326.85
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 7.85	$ 7.85

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	0.00	Report Summer Demand (kW)
	Winter	0.47	0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):			54816.7	1827.2
			2005 Lifecycle	*2005 Annual*
			54816.7	1827.2

Other resources saved :

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

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

		Reporting Year	2005 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*Incremental O&M:*		$ 2,586.69	$ 2,586.69
	Incentive:	$ -		$ -
	Total:	$ -	$ 2,586.69	$ 2,586.69
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	2,586.69	2,586.69

E. Assumptions & Comments:

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit b

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Lighten Your Electricity Bill (Residential)

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

Centre Wellington Hydro participated in a coupon campaign with Canadian Tire. Energyshop.com was engaged to design, deliver and track the program. Customers were provided with a bill insert containing energy-savings coupons. Customers had until December 31, 2005 to redeem their point of purchase coupons at any local Canadian Tire outlet. Canadian Tire sent the coupon to a redemption house, who then sorted by utility and product. This program helped increase public awareness of energy conservation and demand management, as well as contribute to the overall development of an energy conservation culture in Ontario.The program results showed a significant increase in total sales of the targetted products accross the province.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	0		
Number of participants or units delivered:	0.00		
Measure life (years):	0.00		
Number of participants or units 2005	495		
Number of Participants or units delivered life-to-date	495.00		

B.

TRC Results:	**Reporting Year**	**2005 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 38,459.00	$ 38,459.00
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -	$ 1,713.00	$ 1,713.00
Incremental Measure Costs (Equipment Costs)	$ -	$ 4,579.00	$ 4,579.00
Total TRC costs:	$ -	$ 6,292.00	$ 6,292.00
Net TRC (in year CDN $):	$ -	$ 32,167.00	$ 32,167.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 6.11	$ 6.11

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

Cumulative Results:

Conservation Programs:

			Report Summer Demand (kW)
Demand savings (kW):	*Summer*	6.26	6.26
	Winter	0.00	

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	845356.98	83927.5
			2005 Lifecycle	*2005 Annual*
			845356.98	83927.5

Other resources saved :

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

Demand Management Programs:

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

Demand Response Programs:

Dispatchable load (kW):	

Peak hours dispatched in year (hours):

Power Factor Correction Programs:

Amount of KVar installed (KVar):

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

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):

Energy generated (kWh):

Peak energy generated (kWh):

Fuel type:

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	**2005 Costs**	**Cumlative Life to Date**
Utility direct costs ($): Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -	$ 1,713.00	$ 1,713.00
	Incentive:	$ -	$ 2,827.00	$ 2,827.00
	Total:	$ -	$ 4,540.00	$ 4,540.00
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	4,540.00	4,540.00

E. **Assumptions & Comments:**

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit b

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** 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
Base case technology:	0	0.00	0.00	0.00
Efficient technology:	CFLs	Ceiling Fans	Timers	Progr. Thermostats
Number of participants or units delivered:				
Measure life (years):	4.00	20.00	20.00	18.00
Number of participants or units 2005	1572	24	38	13
Number of Participants or units delivered life-to-date	1,572.00	24.00	38.00	13.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 44,930.26	$ 44,930.26
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ -		$ -
Participant cost:		$ 5,265.00	$ 5,265.00
Total TRC costs:	$ -	$ 5,265.00	$ 5,265.00
Net TRC (in year CDN $):	$0.00	$ 39,665.26	$ 39,665.26
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	$ 8.53	$ 8.53

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

Conservation Programs:

			Cumulative Results:	
Demand savings (kW):	*Summer*		Report Summer Demand (kW)	
	Winter	0.00	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):			820345.14	159040.39
			2005 Lifecycle	*2005 Annual*
			820345.14	159040.39
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

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

E. Comments:

1 Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit b

2 For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Energy Crunch Conservation Kits

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

Purchased Conservation Kits to provide to customers through various venues. Provided kits through school programs and community events. Kit contains three CFL's, Duplex Plug caps & weather stripping.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4
Base case technology:	Incandescent bulb	0.00	0.00	0.00
Efficient technology:	CFL	0.00	0.00	0.00
Number of participants or units delivered:	1,000.00	500.00	0.00	0.00
Measure life (months):	51.72	51.72	0.00	0.00
Number of participants/units 05&06				
Number of Participants or units delivered life-to-date	1,000.00	500.00	0.00	0.00

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	*$ 38,674.05*		$ 38,674.05
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ -		$ -
Incremental Measure Costs (Equipment Costs)	$ 3,375.00		$ 3,375.00
Total TRC costs:	$ 3,375.00	$ -	$ 3,375.00
Net TRC (in year CDN $):	$35,299.05	$ -	$ 35,299.05
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	11.46	#DIV/0!	$ 11.46

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

Cumulative Results:

Conservation Programs:

Demand savings (kW): *Summer* 0.00 — Report Winter Demand (kW): 32.63

Winter 32.63

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*652,500.00*	151,380.00	652500	151380
			Total 05&06 Lifecycle	*05&06 Annual*

Other resources saved :

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

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

Line Loss Reduction Programs:

Peak load savings (kW):

	lifecycle	*in year*
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

			Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 7,770.00	$ -	$ 7,770.00
	Incentive:	$ -		$ -
	Total:	$ 7,770.00	$ -	$ 7,770.00
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 7,770.00	-	7,770.00

E. Assumptins & Comments:

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Low Income Housing Add-On to GCA Low Income Program

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

Center Wellington entered into an agreement with Green Communities to provide additional measures for electric heat houses that qualified for the GCA Low Income Program sponsored by the OPA. The measures were in addition to those provided by the base program and included measures such as attic insulation and replacement of refrigerators. Due to the criteria for selection of homes and the general level of measures already in place the program did not result in the anticipated number of installations.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4
Base case technology:	Below R-32	Below R 32	Old Refrigerator	0.00
Efficient technology:	To R-32 in Attic	To R32 In Attic	EnergyStar Refrigerator	0.00
Number of participants or units delivered:	1.00	1.00	1.00	0.00
Measure life (years):	25.00	25.00	9.00	0.00
Number of participants/units 05&06				
Number of Participants or units delivered life-to-date	1.00	1.00	1.00	0.00

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	*$ 2,600.34*		$ 2,600.34
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ 499.20		$ 499.20
Participant cost:	$ 2,748.60		$ 2,748.60
Total TRC costs:	$ 3,247.80	$ -	$ 3,247.80
Net TRC (in year CDN $):	-$647.46	$ -	-$ 647.46
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.80	#DIV/0!	$ 0.80

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

Conservation Programs:

			Cumulative Results:	
Demand savings (kW):	*Summer*	0.16	Report Summer Demand (kW)	
	Winter	2.13	0.16	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*67,470.30*	3,152.70	67470.3	3152.7
			Total 05&06 Lifecycle	*05&06 Annual*

Other resources saved :

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

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

			Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 3,873.76		$ 3,873.76
	Incentive:	$ -		$ -
	Total:	$ 3,873.76	$ -	$ 3,873.76
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 3,873.76	-	3,873.76

E. Comments:

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit benefit specified in the TRC Guide.

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Streetlight Conversion

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

In 2006 replaced 5 existing streetlights with HPS. Saved 766 kWh on an annual basis for all 5. In 2007 replaced 35 units saving a total of 10,380 kWh annually.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Mercury Vapour		
Efficient technology:	High Pressure Sodium		
Number of participants or units delivered:	35.00		
Measure life (years):	20.00		
Number of participants or units 2005	5		
Number of Participants or units delivered life-to-date	40.00		

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ 5,834.42	$ 430.56	$ 6,264.98
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 10,121.00	$ 3,891.97	$ 14,012.97
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ 10,121.00	$ 3,891.97	$ 14,012.97
Net TRC (in year CDN $):	-$ 4,286.58	-$ 3,461.41	-$ 7,747.99
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.58	$ 0.11	$ 0.45

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

Conservation Programs:

			Cumulative Results:	
Demand savings (kW):	*Summer*	0.00	Report Summer Demand (kW)	
	Winter	9.36	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*186,840.00*	9,342.00	200628	10031.4
			05/06 Lifecycle	*05/06 Annual*
			13788	689.4

Other resources saved :		
Natural Gas (m3):	0	0
Water (l)	0	0

Demand Management Programs:

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

Demand Response Programs:

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

Power Factor Correction Programs:

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

Line Loss Reduction Programs:

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

Distributed Generation and Load Displacement Programs:

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

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

		Reporting Year	2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*Incremental O&M:*	$ 10,121.00	$ 5,448.76	$ 15,569.76
	Incentive:	$ -		$ -
	Total:	$ 10,121.00	$ 5,448.76	$ 15,569.76
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 10,121.00	5,448.76	15,569.76

E. **Assumptions & Comments:**

[1] Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the numebr of units times the net present value per unit b

[2] For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made