



March 30, 2007

Mr. John Zych, Secretary  
Ontario Energy Board  
PO Box 2319  
2300 Yonge St, Suite 2700  
Toronto, Ontario, M4P 1E4

**Re: 2006 Annual Report, CDM Third Tranche Funding, London Hydro Inc.**

In accordance with the Boards instructions of March 1, 2007, please find enclosed 3 hard copies and 2 electronic copies (1 in PDF and 1 in Word / Excel format) of the 2006 Annual Report, CDM Third Tranche Funding, London Hydro Inc.

Please direct any questions or inquiries to myself.

Sincerely,

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London Hydro Inc -  
(RP-2004-0203 / EB-2005-0206) -  
*Conservation and Demand Management  
2006 Annual Report*

Submitted: March 31, 2007



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# 1 INTRODUCTION

## 1.1 Background

On May 31, 2004, the Minister wrote to electricity distributors pursuant to section 79.6 of the Ontario Energy Board Act, 1998 to allow them to proceed to the Ontario Energy Board with applications to establish deferral accounts within which to track expenditures on conservation and demand management initiatives. Pursuant to the Minister's letter, the Board has allowed distributors to recover funds from ratepayers to be invested in conservation and demand management initiatives.

On October 5, 2004, the Ontario Energy Board issued a procedural order to electricity distributors regarding distributor conservation and demand management activities and deferral accounts, and the procedure to be used for approval of expenditures related to these activities.

In January of 2005, London Hydro submitted its CDM Plan [1] for pre-approval of the fourteen (14) described initiatives. A decision and final order was received March 17<sup>th</sup>, 2005 [2].

Overall, distributors received approval to invest \$163 million in conservation and demand management initiatives over a three year period. Included in this value is the \$2.8 million approved for London Hydro Inc.

## 1.2 Purpose

The Ontario Energy Board's orders approving electricity distributor conservation and demand management plans [2] includes a provision that each distributor both report quarterly on their CDM programs and annually to file an report that incorporates a cost benefit analysis.

## 1.3 Scope

This document reports on London Hydro's investment progress in energy conservation and demand-side management initiatives, and resulting energy conservation achievements, for projects that were carried out in calendar year 2006.

## 1.4 Program Evaluation Methodology

Within London Hydro's CDM Plan, the *Levelized Cost of Saved Energy* was advanced as straightforward methodology for gauging the effectiveness of each conservation / demand-management initiative. The methodology is detailed in Section 2.3.2, *Prioritization Methodology*, of this CDM Plan [1], and is simply used to ensure an investment in energy conservation will be less costly than the historic market price of generation.

In September 2005, the Ontario Energy Board published its *Total Resource Cost* methodology [6] for evaluating conservation / demand-management initiatives. The guideline was subsequently revised in October 2006 [7]. The TRC Test uses projections of avoided electricity costs (marginal cost) to express benefits in a standard benefit-cost test calculation. Costs represent the incremental cost of the energy efficient equipment and any associated program support costs. The TRC results are expressed either as an \$NPV value or as a benefit/cost ratio. For the Ontario context, the Ontario Energy Board directed Hydro One to develop a set of avoided costs to be used in a TRC evaluation framework. The resulting sets of avoided costs accommodate generation, transmission and distribution costs and reflect a “societal” perspective for the province of Ontario. Results expressed in this framework do not represent either the LDC’s or the end user’s perspective on cost effectiveness.<sup>1</sup>

In order to carryout the TRC calculations London Hydro invested in the EnerSpectrum Group’s *Total Resource Cost Calculator* computer program<sup>2</sup>.

Pursuant to the OEB’s requirements [5] [9], individual total resource costs are reported herein for each program that is either complete or has measurable results. A levelized cost of saved energy is also reported herein for information purposes.

## **1.5 Local Context for CDM Programs**

London Hydro’s service territory is essentially islanded in southwestern Ontario. There are no other large LDC’s that have information that cross pollinates into our service territory, i.e. our customers do not get the chance to compare our program to another LDC’s easily. This allows London Hydro to create and execute programs that can be readily measured and evaluated, as spillover from advertising of other LDC programs does not directly influence our customers.

Note: The “powerWISE<sup>®</sup>” brand is being seen by Londoners on Toronto stations and the London newspaper but there has been less than a handful of inquiries to our call center even though we do not participate in that program. This also tells us that LDC branding is most important as the powerWISE brand is not directly associated with the local LDC. All of London Hydro’s programs are branded with our logo and messaging.

## **1.6 References**

Reference is made in this Annual Report to the following publications and correspondence:

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<sup>1</sup> *Technology Assessment Study and TRC Analysis*; a report prepared for The Ontario Power Authority by SeeLine Group Inc; December 2005; pg 1. Report available online at URL:

[http://www.conservationbureau.on.ca/Storage/12/1722\\_OPA\\_Technology\\_Study\\_12\\_08\\_Final.pdf](http://www.conservationbureau.on.ca/Storage/12/1722_OPA_Technology_Study_12_08_Final.pdf)

<sup>2</sup> See URL: [http://www.enerspectrum.com/products\\_services.php#calculator](http://www.enerspectrum.com/products_services.php#calculator) for a high level description of this software product.

- [1] London Hydro System Planning Report SP04-05, *Towards a Sustainable Energy Future: Master Plan of Strategies and Approaches for Energy Conservation and Demand-Side Management Investments*; January 2005.
- [2] Ontario Energy Board Decision and Order RP-2004-0203 / EB-2005-0206; re: *an Application by London Hydro Inc. for an Order Pre-approving its Conservation and Demand Management Plan*; March 17, 2005.
- [3] Letter of November 1, 2005, to Peter O’Dell, Ontario Energy Board, from Ian McKenzie, London Hydro Inc; re: *Energy Conservation & Demand-Management Plan – Application to Transfer Monies between Initiatives*.
- [4] Letter of November 22, 2005, to Ian McKenzie, London Hydro, from John Zych, Ontario Energy Board; re: *Application to Transfer Funds between Initiatives within a Conservation and Demand Management Plan, Board File No RP-2004-0203 / EB-2005-0206*.
- [5] Ontario Energy Board publication “*Guideline for Annual Reporting of CDM Initiatives*”, December 21, 2005.<sup>3</sup>
- [6] Ontario Energy Board publication: *Total Resource Cost Guide*; September 2005.<sup>4</sup>
- [7] Ontario Energy Board publication: *Revision to the Total Resource Cost Guide*; October 2, 2006.<sup>5</sup>
- [8] Letter of January 17<sup>th</sup>, 2007, to Kirsten Walli, Ontario Energy Board, from Ian McKenzie, London Hydro Inc; re: *RP-2004-0203 / EB-2005-0206 – Approved CDM Programs – London Hydro*.
- [9] Letter of March 1, 2007, to all Licensed Electricity Distributors from Ontario Energy Board; re: *Amended Requirements for Annual Reporting of Conservation and Demand Management (“CDM”) Initiatives*.

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<sup>3</sup> Document available electronically on OEB website at URL: [http://www.oeb.gov.on.ca/html/en/industryrelations/ongoingprojects\\_distconservation.htm](http://www.oeb.gov.on.ca/html/en/industryrelations/ongoingprojects_distconservation.htm)

<sup>4</sup> Document available electronically on OEB website at URL: [http://www.oeb.gov.on.ca/documents/cases/RP-2004-0203/cdm\\_trcguide\\_141005.pdf](http://www.oeb.gov.on.ca/documents/cases/RP-2004-0203/cdm_trcguide_141005.pdf)

<sup>5</sup> Document available electronically on OEB website at URL: [http://www.oeb.gov.on.ca/documents/cases/RP-2004-0203/cdm\\_trcguide\\_021006.pdf](http://www.oeb.gov.on.ca/documents/cases/RP-2004-0203/cdm_trcguide_021006.pdf)

## 2 EVALUATION OF THE CDM PLAN

Amongst the overall portfolio of energy conservation / demand-side management initiatives outlined in London Hydro's CDM Plan, some planned for execution in 2006 were far more successful than the initial aggressive targets, whilst others failed to gain traction and were scaled back or canceled. Many of the larger commercial and industrial lighting upgrade projects commenced in the latter half of 2006 and carried over into early 2007 – these will be reported in the next and final annual report.

The specific programs for which effectiveness metrics are being reported are:

- Residential Appliance Recycling Program;
- Program to Increase Commercial Sector Energy Efficiency (sub-programs *custom lighting upgrades* that completed only);
- Public Education Program (sub-program *energy conservation kits* only).

The requisite matrix presentation of the effectiveness parameters is included as Appendix A herein.

London Hydro's CDM Plan was intended as a strategic planning document. Simply put, strategic planning determines where an organization is going over the next year or more, how it's going to get there and how it'll know if it got there or not. Any such document only exists as a guideline and should change as the world changes. Such is the case with London Hydro's CDM Plan. As circumstances have changed, it has been necessary to scale back or defer some programs while expanding other programs.

### 3 DISCUSSION OF PROGRAMS

Highlights for each program within London Hydro’s portfolio of energy conservation and demand-side management initiatives are outlined herein. The requisite total resource cost analysis for each program is included herein as Appendix B in the required format.

#### 3.1 Municipal Traffic & Pedestrian Signals Upgrade Project

This initiative was completed and the program highlights included in London Hydro’s *Conservation and Demand Management 2005 Annual Report*.

#### 3.2 Residential Power Cost Monitor

<b>Description:</b>	Refer to Section 4 of London Hydro’s CDM Plan
<b>Status:</b>	Field portion complete – waiting for final analysis report
<b><u>Effectiveness:</u></b>	
• Total Resource Cost:	(refer to Appendix B.2)
• Cost of Saved Energy:	
<b>Comments:</b>	Although the field trial is complete, and consumption data has been sent to the researcher for analysis, the final report (which will quantify saved energy) remains outstanding.

#### 3.3 Residential Appliance Recycling Program

<b>Description:</b>	Refer to Section 5 of London Hydro’s CDM Plan
<b>Status:</b>	Program complete – Case study being finalized
<b><u>Effectiveness:</u></b>	
• Total Resource Cost:	-\$3,885,231. <sup>00</sup> (refer to Appendix B.3)
• Cost of Saved Energy:	1.7 to 10.8 ¢/kW·h – see below ☺
<b>Comments:</b>	The <i>Chill Out – London</i> residential appliance recycling program, with an uptake of 14,200 units (or 10.8% of the residential customer base) was the most successful all-encompassing program ever run in North America. The <i>Chill Out</i> program was necessarily terminated before there was a slow-down in interest only because additional program funding could not be obtained.

A complete Case Study of the *Chill Out – London* residential appliance recycling program has been prepared and will be made available to the industry summarily.

The cost of saved energy varied by sector, program, and appliance. The findings that are reported in the case study are:

- ❖ Early retirement program for apartment refrigerators:

- Apartment Buildings .....1.7 ¢/kW·h
- Social Housing Units .....2.7 ¢/kW·h
- ❖ Chill Out homeowner segment:
  - Replace It (upgrade program for primary fridges)..... 2.8 ¢/kW·h
  - Replace It (right-sizing program for beer fridges) ..... 2.8 ¢/kW·h
  - Replace It (right-sizing program for freezers) ..... 9.1 ¢/kW·h
  - Retire It (fridges) ..... 5.5 ¢/kW·h
  - Retire It (freezers) ..... 10.8 ¢/kW·h
  - Room Air Conditioner (RAC) Turn-In Event.....8.5 ¢/kW·h

Although one might conclude that one shouldn't include freezers and RAC's in future programs, the cost-effectiveness of the refrigerator right-sizing and upgrade programs combined with their greater volumes will offset some of the higher costs associated with freezers and RAC's and allow greater numbers of customers to participate in a comprehensive *Chill Out* program.

Note: One shouldn't read too much into the TRC measure assessed for the *Chill Out* program. There are really two issues with the defined methodology – some of the assumptions aren't reflective of the actual process, whilst the other problem is a matter of interpretation. For upgrading and right-sizing energy actions, the TRC model instructions require attribution of the purchase price of the new refrigerated appliance as a cost in the overall cost-benefit assessment. In reality, appliances have limited service lifetimes, and in the absence of the *Chill Out* program, the customer would have replaced the refrigerator at some point in time. All the *Chill Out* program has done is advance a sure customer expenditure by some time period. As such, the proper attribution would only have been the carrying cost of the customer advancing an expenditure. But here is where “*perspectives*” enter into the TRC cost-benefit analysis. In its present state, the TRC analysis simply shows that it is not worthwhile to spend tax dollars to go forth and replace all the vintage refrigerators in the province as an alternative to constructing new generation. However, by modifying the instructions to consider that simply advancing an inevitable procurement, the TRC outcome changes entirely, i.e. it is a program that benefits the customer and society as one might intuitively deduce.

### **3.4 Program to Increase Commercial Sector Energy Efficiency**

#### **3.4.1 Cool Shops – London (2005) Program**

This initiative was completed and the program highlights included in London Hydro's *Conservation and Demand Management 2005 Annual Report*.

#### **3.4.2**

Lockable CFL / LED Exit Lights for Apartment / Social Housing Buildings

Description:	Refer to Section 6.1.4 of London Hydro’s CDM Plan
Status:	Ongoing
<u>Effectiveness:</u>	
• Total Resource Cost:	(refer to Appendix B.4B)
• Cost of Saved Energy:	
Comments:	Under London Hydro’s “CFL for Incandescent Exchange” program, lighting conversions within several apartment buildings and social housing complexes started in late 2006. As no rebate cheques were issued prior to December 31 <sup>st</sup> , 2006, final reporting will be deferred until the 2007 report.

3.4.3 Other Custom Lighting Upgrade Programs

Description:	Refer to Section 6.1.5 of London Hydro’s CDM Plan
Status:	Ongoing
<u>Effectiveness:</u>	
• Total Resource Cost:	\$4,126. <sup>22</sup> (refer to Appendix B.4C)
• Cost of Saved Energy:	2.9 ¢/kW·h ☺
Comments:	There are numerous lighting upgrade projects with a variety of technologies (e.g. HID dimming, daylight harvesting, etc), but only two were started and completed in 2006 (Jones Packaging & Purolator). Many large scale projects finished in early 2007 or are still underway and will be reported in the 2007 report.

3.4.4 Vending Miser Program

Description:	Refer to Section 6.1.3 of London Hydro’s CDM Plan
Status:	Ongoing
<u>Effectiveness:</u>	
• Total Resource Cost:	(refer to Appendix B.4D)
• Cost of Saved Energy:	
Comments:	Commitments from program participants not received until late 2006 for installations in Spring of 2007.

3.5 Distribution Shunt Capacitor Program

This program has been collapsed and monies transferred to the *Residential Appliance Recycling* program. Refer to references [3], [4] and [8].

3.6 Combined Heat & Power (CHP) Opportunities for Dispersed Generation

This program has been collapsed and monies transferred to the *Residential Appliance Recycling* program. Refer to references [3], [4] and [8].

### **3.7 Energy Awareness in the Classroom Program**

Description:	Refer to Section 9 of London Hydro’s CDM Plan
Status:	Program pilot tested and ready for 2007 rollout
<u>Effectiveness:</u>	
• Total Resource Cost:	(refer to Appendix B.7)
• Cost of Saved Energy:	
Comments:	Pilot testing of the Energy Awareness in the Classroom was carried out in the Fall of 2006. Actual rollout will not occur until 2007, at which time final results will be reported.

### **3.8 LCBO Warehouse Makeover Project**

This program has been collapsed and monies transferred to the *Commercial Energy Efficiency* program (of which the LCBO warehouse was initially a special showcase project within the portfolio of commercial lighting upgrade initiatives). Refer to reference [8].

### **3.9 Residential Summer Comfort Program**

Description:	Refer to Section 11 of London Hydro’s CDM Plan
Status:	This program has been re-formulated into two distinct residential programs – a gray-water heat recovery initiative, and an <i>Earth Day 2007 Campaign</i> .
<u>Effectiveness:</u>	
• Total Resource Cost:	(refer to Appendix B.9)
• Cost of Saved Energy:	
Comments:	The expenditures for these programs will occur in early 2007, and as such, final results will be reported in 2007.

### **3.10 Demand Response Enabling Technologies Program**

This program has been collapsed and monies transferred to the *Residential Appliance Recycling* and *Energy Awareness in the Classroom* programs. Refer to references [3], [4] and [8].

### **3.11 The Heat and Warmth (THAW) Plus Program**

This program has been collapsed and monies transferred to the *Residential Appliance Recycling* and *Energy Awareness in the Classroom* programs. Refer to references [3], [4] and [8].

### 3.12 Putting Our Own House in Order Program

Description:	Refer to Section 14 of London Hydro's CDM Plan
Status:	Ongoing
<u>Effectiveness:</u>	
• Total Resource Cost:	(refer to Appendix B.12)
• Cost of Saved Energy:	
Comments:	The consultant's report was delivered in October 2006. The labour and materials associated with the lighting retrofit work was contracted near year end. The project should be substantially complete in early Spring 2007.

### 3.13 Community One-Tonne Challenge Plus Program

This program has been collapsed and monies transferred to the *Residential Appliance Recycling* and *Energy Awareness in the Classroom* programs. Refer to references [3], [4] and [8].

### 3.14 Public Education Program

Description:	Refer to Section 16 of London Hydro's CDM Plan
Status:	In-progress
<u>Effectiveness:</u>	
• Total Resource Cost:	\$1,753,880. <sup>00</sup> (refer to Appendix B.14)
• Cost of Saved Energy:	0.000 ¢/kW·h ☺
Comments:	A major element for this initiative was the provision of Energy Kits to the 5,247 participants in the homeowner segment of the <i>Chill Out – London</i> program. The reporting herein refers specifically and only to the four (4) CFL's contained (amongst other items) in these Energy Kits.

## 4 LESSONS LEARNED

Aside from the general “lessons learned” that were reported last year in London Hydro’s *Conservation and Demand Management 2005 Annual Report*, there are numerous valuable lessons learned and recommendations that came forth from London Hydro’s *Chill Out* residential appliance recycling program. These are contained in the published case study<sup>6</sup> for this project and won’t be repeated herein.

Note: The Case Study includes a specific discussion of the Total Resource Cost (TRC) analysis, the differences between the OEB’s pre-defined assumptions for refrigerator programs and what is really happening in the marketplace (for the *Chill Out* program), and the need to understand what a particular analysis is telling the reader before jumping to an incorrect conclusion. For example, the Cost of Saved Energy (CSE) analysis indicates that *Chill Out* was a great energy conservation program (i.e. energy conservation was attained at a cost less than the blended market price of generation), whilst the TRC analysis indicates the opposite.

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<sup>6</sup> London Hydro System Planning Report SP06-01, *Energy Conservation and Demand-Side Management: Case Study of the Chill Out – London Residential Appliance Recycling Program*; March 2007.

## 5 CONCLUSIONS

Throughout 2006, London Hydro encounter a few more of the expected lead time delays associated with program development, the scaling back or deferral of some programs either due to reasons beyond London Hydro's control or that weren't envisioned at the time the CDM Plan was created, but also at least one resounding success story and early signs of a few other success stories.





## Appendices

## 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.

	<sup>5</sup> Cumulative Totals Life-to-date	Total for 2006	Residential	Commercial	Institutional	Industrial	Agricultural	LDC System	<sup>4</sup> Smart Meters	Other #1	Other #2
<i>Net TRC value (\$):</i>	-\$ 588,520	-\$ 588,520	\$ (2,131,413)	\$ 59,850	\$ 1,492,287	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Benefit to cost ratio:</i>	0.94	0.94		1.16	1.81	0.00	0.00	0.00		0.00	0.00
<i>Number of participants or units delivered:</i>	3,478	1,329	1,035	294	-						
<i>Lifecycle (kWh) Savings:</i>	221,031,668	221,031,668	193,619,110	3,260,134	24,152,424	0	0	0		0	0
<i>Report Year Total kWh saved (kWh):</i>	29,491,386	23,671,338	19,170,528	475,406	4,025,404	0	0	0		0	0
<i>Total peak demand saved (kW):</i>	2,074	1,386	836	90	460	0	0	0		0	0
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>	0.42%	0.68%	1.67%	0.02%	16.48%						
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>	0.15%	0.19%	0.12%	0.01%	0.06%						
<sup>1</sup> <i>Report Year Gross C&amp;DM expenditures (\$):</i>	\$ 2,664,637	\$ 1,799,705	\$ 1,731,690	\$ 59,182	-\$ 411	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<sup>2</sup> <i>Expenditures per kWh saved (\$/kWh):</i>	\$ 0.01	\$ 0.01	\$ 0.01	\$ 0.02	-\$ 0.00	\$ -	\$ -	\$ -		\$ -	\$ -
<sup>3</sup> <i>Expenditures per kW saved (\$/kW):</i>	\$ 1,284.78	\$ 1,298.49	\$ 2,071.40	\$ 657.58	-\$ 0.89	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Utility discount rate (%):</i>	7.35%										

<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.

<sup>5</sup> 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 B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Traffic & Pedestrian Signals Upgrade

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

The municipal traffic & pedestrian signals upgrade project was an undertaking by the City of London (with funding support from London Hydro's EC/DSM Plan) to convert the traffic and pedestrian signals at 394 intersections from incandescent lamps to state-of-the-art energy-efficient light emitting diode (LED) modules. Under the program 11,329 incandescent bulbs (with electrical input ratings ranging from 60 to 135 W) were replaced with LED modules (with input ratings ranging from 5 to 22 W).

Note: Q4 2005 report had an accrued value of spending which has been updated to the values included in this report.

Note: The program is completely described in Section 3, Municipal Traffic & Pedestrian Signals Upgrade Project, of London Hydro's CDM Plan.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Incandescent Bulbs	0	0
Efficient technology:	Light-Emitting Diode Modules	0	0
Number of participants or units delivered for reporting year:	394 intersections	0	0
Measure life (years):	6	0	0
Number of Participants or units delivered life to date			

B. <b>TRC Results:</b>	Reporting Year	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):		\$ 3,342,997.96
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		\$ 5,872.00
Incremental Measure Costs (Equipment Costs)		\$ 1,844,839.00
Total TRC costs:		\$ 1,850,711.00
<b>Net TRC (in year CDN \$):</b>	\$ -	\$ 1,492,286.96
<b>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</b>		\$ 1.81

C. <b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer			460
	Winter			460
	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):		4,025,404	24,152,424	8,050,808
Other resources saved :				
Natural Gas (m3):				
Other (specify):				
<b>Demand Management Programs:</b>				
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):				
<b>Demand Response Programs:</b>				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
<b>Power Factor Correction Programs:</b>				
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):		
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**D. Actual Program Costs:**

		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>	-\$ 411.02	\$ 5,872.00
	<i>Incentive:</i>		\$ 526,663.65
	<i>Total:</i>	-\$ 411.02	\$ 532,535.65
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Total:</i>		

**E. Assumptions & Comments:**

From the City's perspective, this project represents more than simply an energy conservation opportunity (with the inherent recurring energy cost savings). Because the expected service life for an LED module is at least six years (and probably greater), the City can suspend its annual group relamping preventive maintenance program (with annual costs understood to be on the order of \$65K) and may expect to see a decline in call-out costs in response to burned-out incandescent lamps. This value has not been finalized by the City of London and is not included in the TRC value. This will be updated for the year-end 2006 annual filing and will improve the effectiveness of this program.

For example, for an "advance arrow" signal, the customer would have required almost \$225 in per module incentives to achieve a three-year return-on-investment strictly considering energy savings, but London Hydro limited the incentive to \$4.75 so as not to exceed a levelized cost-of-saved energy of 4.1 ¢/kWh. The upgrade was carried out none-the-less based on maintenance cost savings.

The calculated levelized Cost of Saved Energy (CSE) for this project was just over 2.6 ¢/kWh.

The TRC for this project is likely less attractive than if it had been carried out considering only energy savings (i.e. conversion of red and green signals to LED technology, and leaving amber and advance signals as incandescent bulbs).

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Residential Power Cost Monitor

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

The residential PowerCost Monitor project involved the installation of BlueLine's PowerCost Monitors in homes of 500 Hydro One Networks customers in the Peterborough, Timmins, Lincoln and Brampton areas for a period of twelve months. As a project participant, 70 PowerCost Monitors were also installed within London Hydro's service territory in March of 2005. The hypothesis being tested is that immediate and specific electricity end-use feedback (via an in-home display) will result in energy conservation behaviour.

Note: The program is completely described in Section 4, Residential Power Cost Monitor - Pilot Project, of London Hydro's CDM Plan.

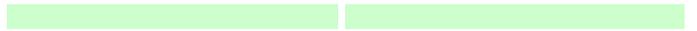
**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	No feedback		
Efficient technology:	In-home display		
Number of participants or units delivered for reporting year:	70		
Measure life (years):			
Number of Participants or units delivered life to date			

B. <b>TRC Results:</b>	Reporting Year	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):	N/A - pilot data not available	N/A - pilot data not available
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		-
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		-
<b>Net TRC (in year CDN \$):</b>		-
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		n/a

C. <b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer	n/a	n/a	
	Winter	n/a	n/a	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Other resources saved :	n/a	n/a	n/a	n/a
Natural Gas (m3):				
Other (specify):				
<b>Demand Management Programs:</b>				
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):				
<b>Demand Response Programs:</b>				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
<b>Power Factor Correction Programs:</b>				
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):		
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<b><u>D. Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	Incremental capital:		\$ 31,734.00
	Incremental O&M:		
	Incentive:		
	Total:		\$ 31,734.00
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

This project is scheduled to continue until the end of March, 2006 after which the participants will receive another survey and their electric consumption data prior to and during the field trials will be submitted to the researchers for analysis. London Hydro pilot data has not yet been collected and analyzed. Pilot study was to be run for a 1 year period with data collection at the end to determine if any conservation action were undertaken. Preliminary results from other LDCs participating in the co-operative show a 6.5% reduction in energy use. London Hydro expects similar results from data collected in the 3rd quarter of 2006 and will be reported for the 2006 year end TRC filing. As the statistical analysis has not been finalized (due in 1/2 of 2007) an updated TRC is not available for the 2006 filing year.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Residential Appliance Recycling Program (Interim Achievements for an Ongoing Program)

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

There are two distinct segments, approaches and timeframes for the Chill Out – London residential appliance recycling program:

- the Replacement segment, directed customers to upgrade early existing fridges to Energy Star refrigerators and Freezers
- the Retirement segment, encouraged customers to retire or dispose of their dated secondary fridges and unneeded freezers, as well as old room air conditioners

Note: The program is completely described in Section 5, Residential Appliance Recycling Program, of London Hydro's CDM Plan.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Vintage apartment refrigerators	Normal OEB Residential Program	Chillout - Old Fridges
Efficient technology:	EnergyStar refrigerators		Energy Star Fridge
Number of participants or units delivered for reporting year:	6603	2790	2433
Measure life (years):	5	14 (19 -5)	19
Number of Participants or units delivered life to date	7638	2790	2433

**B. TRC Results:**

	Reporting Year	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ 3,075,987.00	3,705,411.00
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 156,089.00	\$ 156,089.00
Incremental Measure Costs (Equipment Costs)	\$ 6,852,800.00	\$ 7,434,553.00
Total TRC costs:	\$ 7,008,889.00	\$ 7,590,642.00
Net TRC (in year CDN \$):	-\$ 3,932,902.00	-\$ 3,885,231.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		0.49

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

**Cumulative Results:**

**Conservation Programs:**

Demand savings (kW):	Summer	836	836					
	Winter	836	836					
Energy saved (kWh):	lifecycle	91,431,450	in year	16,050,528.00	Cumulative Lifecycle	180,203,110	Cumulative Annual Savings	17,539,880
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):		

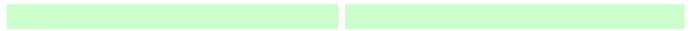
**Demand Response Programs:**

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):		
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<b><u>D. Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>	\$ 68,032.12	\$ 156,089.48
	<i>Incentive:</i>	\$ 1,299,364.65	\$ 1,445,162.29
	<i>Total:</i>	\$ 1,367,396.77	\$ 1,601,251.77
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Total:</i>		

**E. Assumptions & Comments:**

London Hydro has substantially completed the Chill Out Program. The Homeowner segment operated for only 90 days in 2006. This segment was a success in that over 5000 units were either retired or upgraded to new Energy Star units. Unfortunately available funds were exhausted prior to the saturation point, where a drop off in consumer uptake would have been evident and overall potential may have been determined. The Apartment and Property Management segment will deliver another 2000 units in the program in early 2007 due to fridge shortages for apartments.

1

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 Appendix for each program)

A. **Name of the Program:** Cool Shops - London (Summer of 2005 Program)

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

London Hydro partnered with the Clean Air Foundation's multi-city Cool Shops program to deliver turnkey energy conservation measures to small retail businesses (e.g. restaurants, clothing, gift stores, small grocery stores, dry cleaner / Laundromats, etc.) within London Hydro's service territory throughout the summer of 2005. Initial customer contact was established via local business (and business improvement) associations.

Note: The program is better described in Section 6.3.4, Execution Methodology for Small Businesses, of London Hydro's CDM Plan.

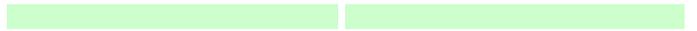
**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Incandescent bulbs		
Efficient technology:	Compact fluorescent lamps		
Number of participants or units delivered for reporting year:	646 stores		
Measure life (years):	8,000 hrs		
Number of Participants or units delivered life to date			

B. <b>TRC Results:</b>	Reporting Year	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):		\$ 33,353.62
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		\$ 31,289.52
Incremental Measure Costs (Equipment Costs)		\$ 24,404.70
Total TRC costs:		\$ 55,694.22
<b>Net TRC (in year CDN \$):</b>		<b>-\$ 22,340.60</b>
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		0.598870355

C. <b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer	33		33
	Winter	33		33
	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):		142992	285,984	285,984
Other resources saved :				
Natural Gas (m3):				
Other (specify):				
<b>Demand Management Programs:</b>				
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):				
<b>Demand Response Programs:</b>				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
<b>Power Factor Correction Programs:</b>				
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):		
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**D. Actual Program Costs:**

		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>	\$ 3,866.94	\$ 35,156.46
	<i>Incentive:</i>		\$ 358.00
	<i>Total:</i>	\$ 3,866.94	\$ 35,514.46
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Total:</i>		

**E. Assumptions & Comments:**

At the conclusion of the project, Clean Air Foundation (CAF) prepared a report entitled "2005 Cool Shops Final Report" (dated November 2005) reflecting experiences and results from programs run in Toronto, London, Ottawa, Markham, Peterborough, and Milton. For the London program, the levelized cost of saved energy (CSE) was calculated to be just over 13 cents per kWh, which greatly exceeds our program threshold of 4 cents per kWh.

London Hydro provided feedback and suggestions for improving future Cool Shops programs at a participants forum in Toronto in November 2005. A proposal for a revamped program that would run in summer of 2006 has been received from CAF, but no decisions have been made at this time as to whether London Hydro will run the program for a second year.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Lockable CFL / LED Exit Lights for Apartment / Social Housing Buildings

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

This initiative is specifically targeted to apartment buildings and social housing complexes. High quality compact fluorescent lamps (CFL's) with a special lockable-base design are used to replace traditional incandescent bulbs in common areas and within fixed fixtures within tenant suites. Similarly, light-emitting diode (LED) modules are used to replace incandescent or first-generation CFL's in Exit lighting fixtures.

Note: The program is better described in Section 6.1.4, Overview of Illuminated Exit Sign Program, of London Hydro's CDM Plan.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	\$ -	\$ -	
Efficient technology:			
Number of participants or units delivered for reporting year:	\$ -	\$ -	
Measure life (years):			
Number of Participants or units delivered life to date			

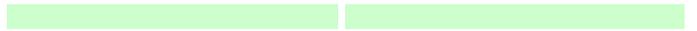
B. **TRC Results:**

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

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

	Cumulative Results:			
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer			
	Winter			
	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):				
Other resources saved :				
Natural Gas (m3):				
Other (specify):				
<b>Demand Management Programs:</b>				
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):				
<b>Demand Response Programs:</b>				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
<b>Power Factor Correction Programs:</b>				
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):		
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<b><u>D. Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	Incremental capital:		\$ -
	Incremental O&M:	\$ 425.34	\$ 3,906.34
	Incentive:		\$ -
	Total:	\$ 425.34	\$ 3,906.34
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

London Hydro expects that more than 30,000 lockable-CFL's will be installed under this program, but we are awaiting the availability of a modified version of the lockable-CFL that will feature lower harmonic distortion / higher power factor characteristics than what is currently available in today's marketplace.

This program is a component of the Commercial Energy Sector program approved by the OEB. To date, minimal spending has occurred on this program and TRC values are not available.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Other Custom Lighting Upgrade Programs

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

**Purolater Energy Audit** - Audit performed in 2005 however cost saving measures not implemented until 2006. Minor spending in 2005. Energy savings will not be quantified until 2006. The 2006 annual report will have a TRC value for this program.

**Volvo Dealership** - Included in TRC and spending values below, please see comments section of this page for more info.

**Beck**

**Manor** - Included in TRC and spending values below, please see comments section of this page for more info.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	HID Lighting	T12 Fluorescents	Various Lighting
Efficient technology:	HID Dimming Controls	T8 with electronic ballasts	Daylight Harvesting Controls
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

B. <b>TRC Results:</b>	Reporting Year	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):		\$ 111,556.02
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		\$ 2,140.00
Incremental Measure Costs (Equipment Costs)		\$ 31,276.83
Total TRC costs:		\$ 33,416.83
<b>Net TRC (in year CDN \$):</b>		<b>\$ 78,139.19</b>
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		\$ 3.34

C. <b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer	25		25
	Winter	25		25
			Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):	lifecycle	162300	2,434,500	324,600
Other resources saved :				
Natural Gas (m3):				
Other (specify):				
<b>Demand Management Programs:</b>				
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):				
<b>Demand Response Programs:</b>				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
<b>Power Factor Correction Programs:</b>				
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):		
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**D. Actual Program Costs:**

		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	Incremental capital:		\$ 4,428.00
	Incremental O&M:	\$ 1,376.81	\$ 3,516.81
	Incentive:		\$ 4,700.00
	Total:	\$ 1,376.81	\$ 12,644.81
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

Beck Manor Assumptions - Life Span of fixtures = 15 years, replacement differential of 8' T 12 to 4' T 8 = \$1.50 in savings, replacement of 4' T12 to 4' T8 = \$1.10 in costs. Average bulb lifespan = 3 years (some on 24/7 others on 16 hours per day) Volvo Dealership - Dimming technology, no audit cost, London Hydro incented \$4,700 of \$18,700 included in calculation above, no incremental maintenance costs or extension of bulb life

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Vending Machine Energy Efficiency Program (Program Not Started)

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

Under this program, innovative intelligent controllers / occupancy sensor units (known by the tradename VendingMI\$ER) are installed on coin-operated refrigerated vending machines.

Note: This program is detailed in Section 6.1.3, Overview of Vending Machine Energy Efficiency Program, of London Hydro's CDM Plan.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Refrigerated Vending Machine		
Efficient technology:	VendingMiser Controller		
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

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

C. <b>Results:</b> (one or more category may apply)	Cumulative Results:			
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer			
	Winter			
	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):				
Other resources saved :				
Natural Gas (m3):				
Other (specify):				
<b>Demand Management Programs:</b>				
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):				
<b>Demand Response Programs:</b>				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
<b>Power Factor Correction Programs:</b>				
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):		
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<b><u>Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ 226.78	\$ 2,082.78
	Incentive:		
	Total:	\$ 226.78	\$ 2,082.78
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

A number of candidate customers for this technology (e.g. colleges, universities, schools, municipal recreation centres, Western Fair, etc) are currently inventorying their stock of refrigerated vending machines. Project rollout will likely be late Spring of 2006. Only minor spending on admin cost have been spent and TRC values are not available at this time.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Jones Packaging Retrofit

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

Jones Packaging is a large printing and box making facility. This project at this company entailed updating and replacing their lighting system. Typical update included removing aged 400 watt Metal Halide HID lighting (consuming 458 watts) to High bay T8 fluorescent Lighting as well as older T12 task lighting to T8 task lighting. Energy consumption was markedly reduced and the quality of light improved within the plant. Also, a more efficient compressed air dryer was installed to replace a dated and less efficient model, also producing savings.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	T 12	HID Fixture Retrofit	Compressor Dryer
Efficient technology:	T8	6 T8 High Output	Comp Air CDR
Number of participants or units delivered for reporting year:	165	294	1
Measure life (years):	3	3	10
Number of Participants or units delivered life to date	165	294	1

B. **TRC Results:**

	Reporting Year	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ 280,995.00	\$ 280,995.00
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 5,794.00	5794
Incremental Measure Costs (Equipment Costs)	\$ 271,074.00	\$ 271,074.00
Total TRC costs:	\$ 276,868.00	\$ 276,868.00
Net TRC (in year CDN \$):	\$ 4,127.00	\$ - \$ 4,127.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	1.01	1.01

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

**Cumulative Results:**

**Conservation Programs:**

Demand savings (kW):	Summer	32	32	
	Winter	32	32	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Other resources saved :	539649.78	170113.5	539649.78	170113.5
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):		
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**D. Actual Program Costs:**

		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ 5,793.76	\$ 5,793.75
	Incentive:	\$ 47,416.91	\$ 47,416.91
	Total:	\$ 53,210.67	\$ 53,210.67
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

<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 b

<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

# Appendix B - Discussion of the Program

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

A. **Name of the Program:** Distribution Shunt Capacitor Program (Program Deferred & Monies Transferred)

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

This program has been collapsed and monies transferred to the Residential Appliance Recycling Program. Refer to November 1st letter to OEB, re: Application to Transfer Monies Between Initiatives, and OEB's letter of reply dated November 22, 2005.

**Measure(s):**

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

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

<b>C. Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>	
<b>Conservation Programs:</b>		
Demand savings (kW):	Summer	
	Winter	
	lifecycle	in year
Energy saved (kWh):		Cumulative Lifecycle
Other resources saved :		Cumulative Annual Savings
Natural Gas (m3):		
Other (specify):		
<b>Demand Management Programs:</b>		
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):		
<b>Demand Response Programs:</b>		
Dispatchable load (kW):		
Peak hours dispatched in year (hours):		
<b>Power Factor Correction Programs:</b>		
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):		
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<b><u>Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Incentive:</i>		
	<i>Total:</i>		
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Total:</i>		

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**E. Assumptions & Comments:**

this program was cancelled and a letter requesting funding transfers has been sent to the OEB. As a result, TRC calculations are not available.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Combined Heat & Power (CHP) Opportunities

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

This project is primarily an engineering assessment of the feasibility for microturbine technology installed on the premises (i.e. dispersed generation) of three representative commercial / industrial customers that presently heat appreciable volumes of water for their processes. If the findings are encouraging, these customers and others with similar process needs will be presented with the findings of the feasibility study, and encouraged to consider this technology as a viable option for implementation.

Note: This program is described as Section 8, Combined Heat & Power (CHP) Opportunities for Dispersed Generators, in London Hydro's CDM Plan.

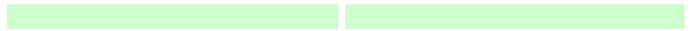
**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Gas-fired boilers		
Efficient technology:	Microturbine		
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

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

<b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>			
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer			
	Winter			
	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):				
Other resources saved :				
Natural Gas (m3):				
Other (specify):				
<b>Demand Management Programs:</b>				
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):				
<b>Demand Response Programs:</b>				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
<b>Power Factor Correction Programs:</b>				
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):		
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<b><u>Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Incentive:</i>		
	<i>Total:</i>		
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Total:</i>		

**E. Assumptions & Comments:**

The target customers have been outfitted with interval meters, and information regarding each customer's respective electricity, natural gas, and water consumption is being accumulated. Soon there will probably be sufficient profile information available for a consultant to start with the actual feasibility study.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Energy Awareness in the Classroom Program

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

Since elementary schools are the established institutions where succeeding generations do much of their learning, it seems like a logical place to introduce the energy conservation creed. This program, which is targeted to younger students in elementary schools, is intended to increase their awareness of energy resource issues and provide them with some basic information so that they can monitor the energy use within their home and school building.

Note: This program is described in Section 9, Energy Awareness in the Classroom Program, of London Hydro's CDM Plan.

**Measure(s):**

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

B. **TRC Results:**

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

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

	Cumulative Results:	
<b>Conservation Programs:</b>		
Demand savings (kW):	Summer	
	Winter	
	lifecycle	in year
Energy saved (kWh):		Cumulative Lifecycle
Other resources saved :		Cumulative Annual Savings
Natural Gas (m3):		
Other (specify):		
<b>Demand Management Programs:</b>		
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):		
<b>Demand Response Programs:</b>		
Dispatchable load (kW):		
Peak hours dispatched in year (hours):		
<b>Power Factor Correction Programs:</b>		
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):		
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<b><u>Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ 110,177.66	\$ 119,177.66
	Incentive:		\$ -
	Total:	\$ 110,177.66	\$ 119,177.66
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

The TRC calculations will prove to be extremely hard to identify and quantify as this program is designed to shift towards a conservation culture in early education ages. A significant amount of money was spent in late Q4 2006 and proper TRC calculations are premature. The 2007 annual filing will contain more information on this project.

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

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** LCBO Warehouse Makeover Project

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

This is a showcase project that will show the significant energy efficiency gains that are attainable via modernization of the lighting systems throughout the complex. The upgrades will consist of a combination of controls (dimming and occupancy) and technology. The opportunities and approach for this project is directly transferable to other warehouse and process plants within and outside of London Hydro's service territory.

Note: The project is described in Section 10, LCBO Warehouse Makeover Project, of London Hydro's CDM Plan.

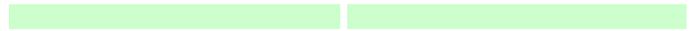
**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	HID High-Bay Lighting		
Efficient technology:	Improved bulb & dimming controls		
Number of participants or units delivered for reporting year:	1		
Measure life (years):			
Number of Participants or units delivered life to date			

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

C. <b>Results:</b> (one or more category may apply)	Cumulative Results:			
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer			
	Winter			
	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):				
Other resources saved :				
Natural Gas (m3):				
Other (specify):				
<b>Demand Management Programs:</b>				
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):				
<b>Demand Response Programs:</b>				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
<b>Power Factor Correction Programs:</b>				
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):		
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<b><u>Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Incentive:</i>		
	<i>Total:</i>		
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Total:</i>		

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**E. Assumptions & Comments:**

As this program has not yet been started, a TRC value is premature. Current budgeting and planning have this program being active in 2007. TRC values will be filed for this program for the 2007 Annual filing.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Residential Summer Comfort Program (Under Development)

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

In the summer months when the temperatures are soaring and humidity levels are high, the demand for air conditioning climbs with every degree the temperature outside climbs. On a hot summer day, the electrical load attributable to thousands of residential air conditioners can strain an electric power system. All energy efficiency actions that are targeted to residential air conditioning load will provide benefits to society by not having to run the peaking power plants.

Note: The program is described in Section 11, Residential Summer Comfort Program, of London Hydro's CDM Plan.

**Measure(s):**

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

B. <b>TRC Results:</b>	Reporting Year	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 62.00	\$ 62.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	\$ 62.00	\$ 62.00
Net TRC (in year CDN \$):	-\$ 62.00	-\$ 62.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		

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

**Conservation Programs:**

	Summer	Winter	Cumulative Lifecycle	Cumulative Annual Savings
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):		

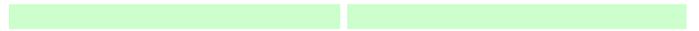
**Demand Response Programs:**

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):		
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<b>D. <u>Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -
	Incremental O&M:	\$ 61.53	\$ 61.53
	Incentive:		
	Total:	\$ 61.53	\$ 61.53
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

This program is under development but will likely focus on advanced window film technology. Spending is not scheduled until mid-2007. TRC values will be filed in the 2007 Annual filing after expenditures and benefits have been identified.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Demand Response Enabling Technologies Program (Under Development)

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

This program addresses one element of a comprehensive demand response program, and is directed to so-called "price notification customers" - those customers with interruptible load or existing emergency/backup generation systems that can respond to a constrained electric grid. IVR technology will be used to transfer advance market pricing information to the customer via facsimile, electronic mail, or to the customers telephone, according to the customer's stated preference with respect to message media, lead time, and price threshold.

Note: The program is described in Section 12, Demand Response Enabling Technologies Program, of London Hydro's CDM Plan.

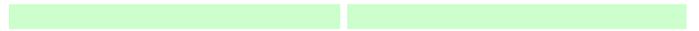
**Measure(s):**

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

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

C. <b>Results:</b> (one or more category may apply)	Cumulative Results:			
<b>Conservation Programs:</b>				
Demand savings (kW):	Summer			
	Winter			
	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):				
Other resources saved :				
Natural Gas (m3):				
Other (specify):				
<b>Demand Management Programs:</b>				
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):				
<b>Demand Response Programs:</b>				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				
<b>Power Factor Correction Programs:</b>				
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):		
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<b><u>D. Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:		\$ 3,714.00
	Incentive:		\$ -
	Total:		\$ 3,714.00
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

No new expenditure were spend in 2006 and as a result the TRC values are premature. The 2007 annual filing will contain the required information.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** THAW Plus Program (Under Development)

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

This program is meant to assist the lower income customers in managing their energy needs and improving efficiencies within their home without penalizing them at a time when they are in a crisis situation. A delivery agent will be used to install a number of energy conservation measures (weatherizing films, insulating wraps on hot water pipes, installation of programmable thermostats, etc.).

Note: The program is described in Section 13, The Heat and Warmth (THAW) Plus Program, of London Hydro's CDM Plan.

**Measure(s):**

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

B. **TRC Results:**

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

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

**Cumulative Results:**

**Conservation Programs:**

	Summer	Winter	Cumulative Lifecycle	Cumulative Annual Savings
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):		
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<b><u>D. Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Incentive:</i>		
	<i>Total:</i>		
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Total:</i>		

**E. Assumptions & Comments:**

This program presents an opportunity to work cooperatively with Union Gas and several local manufacturers of conservation products. TRC values are premature and the 2007 annual report will contain a TRC value for this project.

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

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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Putting Our Own House in Order Program (Awaiting Technology)

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

For consistency and credibility, any organization promoting energy conservation products or services must strive for an impeccable conservation record. If London Hydro is to be successful motivating others to take energy conservation measures, it is important that the organization "practices what it preaches".

Note: This program is described in Section 14, Putting Our Own House in Order Program, of London Hydro's CDM Program.

**Measure(s):**

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

B. <b>TRC Results:</b>	Reporting Year	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 76.00	\$ 76.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	\$ 76.00	\$ 76.00
Net TRC (in year CDN \$):	-\$ 76.00	-\$ 76.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		

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

**Conservation Programs:**

	Summer	Winter	Cumulative Lifecycle	Cumulative Annual Savings
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):		
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**D. Actual Program Costs:**

		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ 75.60	\$ 75.60
	Incentive:		
	Total:	\$ 75.60	\$ 75.60
Utility indirect costs (\$):	Incremental capital:	0	0
	Incremental O&M:	0	0
	Total:		

**E. Assumptions & Comments:**

This project was in the planning stages in Q4 2006 and is well underway in 2007. The 2007 annual report will have full details including TRC values.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Community One-Tonne Challenge Plus Program (Project Scaled Back & Monies Transferred)

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

The City of London's One-Tonne Challenge (OTC) Community Demonstration Project was developed as a result of funding from the federal One-Tonne Challenge Program. While the overall project encompasses many issues, London Hydro's CDM initiative piggy-backed on the City initiative and focused on electrical energy. As a result of very disappointing community participation (17% of target participation levels), London Hydro's participation has been significantly scaled back.

Note: The program is described in Section 15, Community One-Tonne Challenge Plus Program, of London Hydro's CDM Plan.

**Measure(s):**

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

**B. TRC Results:**

	Reporting Year	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
Net TRC (in year CDN \$):		
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	Cumulative Lifecycle	Cumulative Annual Savings
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):		

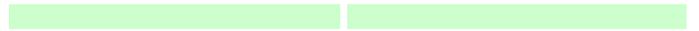
**Demand Response Programs:**

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):		
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**D. Actual Program Costs:**

		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		\$ 1,289.00
	<i>Incentive:</i>		\$ -
	<i>Total:</i>		\$ 1,289.00
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&amp;M:</i>		
	<i>Total:</i>		

**E. Assumptions & Comments:**

The City of London is reformulating portions of its Community One-Tonne Challenge program, and London Hydro is discussing methods of continued participation that would be effective.

This program was cancelled in 2006 and a funding request has been sent to the OEB to reallocate these funds into other CDM programs.

<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 b

<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

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Public Education Campaign

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

The public education campaign spans a portfolio of different initiatives, many of which complement and augment other conservation programs (e.g. Energy Awareness in the Classroom, Community One-Tonne Challenge, etc.).

Note: The program is described in Section 16, Public Education Campaign, of London Hydro's CDM Plan.

**Measure(s):**

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

B. <b>TRC Results:</b>	Reporting Year	Life-to-date TRC Results:	
<sup>1</sup> TRC Benefits (\$):	\$ 2,012,075.00	\$ -	\$ 2,012,075.00
<sup>2</sup> TRC Costs (\$):			
Utility program cost (excluding incentives):	\$ 254,054.39	\$ -	\$ 258,195.39
Incremental Measure Costs (Equipment Costs)			
Total TRC costs:	\$ 254,054.39	\$ -	\$ 258,195.39
<b>Net TRC (in year CDN \$):</b>	<b>\$ 1,758,020.61</b>		<b>\$ 1,753,879.61</b>
Benefit to Cost Ratio (TRC Benefits/TRC Costs):			

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

**Conservation Programs:**

Demand savings (kW):	Summer	Winter	Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):	lifecycle 13,416,000	in year 3,120,000	13,416,000	3,120,000
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):		
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<b><u>Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ 254,054.39	\$ 258,195.39
	Incentive:	\$ -	\$ -
	Total:	\$ 254,054.39	\$ 258,195.39
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

TRC values are associated with CFL's that were distributed through various public energy conservation awareness events. Also included are CFL's distributed by various prescribed programs such as London Hydro's ChillOut etc.

<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 b

<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

# Appendix C - Program and Portfolio Totals

Report Year: **2006**

## 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 (\$)
Power Cost Monitor	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Residential Appliance Recycling	\$ 3,705,411	\$ 7,590,642	-\$ 3,885,231	0.49	16,050,528	180,203,110	836	\$ 1,367,397
Energy Awareness in Classroom	\$ -	\$ -	\$ -	0.00				\$ 110,178
Residential Summer Comfort	\$ -	\$ 62	-\$ 62	0.00	0	0	0	\$ 62
THAW Plus	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Community One Tonne Challenge	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Public Education	\$ 2,012,075	\$ 258,195	\$ 1,753,880	7.79	3,120,000	13,416,000	0	\$ 254,054
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
<b>*Totals App. B - Residential</b>	<b>\$ 5,717,486</b>	<b>\$ 7,848,899</b>	<b>-\$ 2,131,413</b>	<b>0.73</b>	<b>19,170,528</b>	<b>193,619,110</b>	<b>836</b>	<b>\$ 1,731,690</b>
Residential Indirect Costs not attributable to any specific program	→							
<b>Total Residential TRC Costs</b>		<b>\$ 7,848,899</b>						
<b>**Totals TRC - Residential</b>	<b>\$ 5,717,486</b>	<b>\$ 7,848,899</b>	<b>-\$ 2,131,413</b>	<b>0.73</b>				

## 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 (\$)
Cool Shops	\$ 33,354	\$ 55,694	-\$ 22,341	0.60	142,992	285,984	33	\$ 3,867
CFL Exchange	\$ -	\$ -	\$ -	0.00	0	0	0	\$ 425
Custom Lighting	\$ 111,556	\$ 33,417	\$ 78,139	3.34	162,300	2,434,500	25	\$ 1,377
Vending Machine Miser	\$ -	\$ -	\$ -	0.00	0	0	0	\$ 227
Jones Packaging	\$ 280,995	\$ 276,868	\$ 4,127	1.01	170,114	539,650	32	\$ 53,211
LCBO Warehouse Makeover	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Demand Response	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Putting Our Own House in Order	\$ -	\$ 76	-\$ 76	0.00	0	0	0	\$ 76
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
<b>*Totals App. B - Commercial</b>	<b>\$ 425,905</b>	<b>\$ 366,055</b>	<b>\$ 59,850</b>	<b>1.16</b>	<b>475,406</b>	<b>3,260,134</b>	<b>90</b>	<b>\$ 59,182</b>

Commercial Indirect Costs not attributable to any specific program



<b>Total TRC Costs</b>		\$	366,055				
<b>**Totals TRC - Commercial</b>	\$	425,905	\$	366,055	\$	59,850	1.16

### 3. Institutional Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Traffic Light Retrofit	\$ 3,342,998	\$ 1,850,711	\$ 1,492,287	1.81	4,025,404	24,152,424	460	-\$ 411
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>	\$ 3,342,998	\$ 1,850,711	\$ 1,492,287	1.81	4,025,404	24,152,424	460	-\$ 411

Institutional Indirect Costs not attributable to any specific program



<b>Total TRC Costs</b>		\$	1,850,711				
<b>**Totals TRC - Institutional</b>	\$	3,342,998	\$	1,850,711	\$	1,492,287	1.81

### 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 (\$)
Combined Heat and Power	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
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	\$ -
Industrial Indirect Costs not attributable to any specific program	→								
<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	0	0	\$ -
Agricultural Indirect Costs not attributable to any specific program	→							
<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 (\$)
Distributor Shunt Program	\$	-	\$	-	0	0	0	\$ -
Name of Program B			\$	-	0.00			

Name of Program C			\$	-	0.00				
Name of Program D			\$	-	0.00				
Name of Program E			\$	-	0.00				
Name of Program F			\$	-	0.00				
Name of Program G			\$	-	0.00				
Name of Program H			\$	-	0.00				
Name of Program I			\$	-	0.00				
Name of Program C			\$	-	0.00				
<b>*Totals App. B - LDC System</b>	\$	-	\$	-	0.00	0	0	0	\$ -

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	\$ -

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>	\$ 9,486,389	\$ 10,065,665	-\$ 579,277	0.94	23,671,338	221,031,668	\$ 1,386	\$ 1,799,705
<i>Any other Indirect Costs not attributable to any specific program</i>		\$ 9,244						
<b>TOTAL ALL LDC COSTS</b>		\$ 10,074,909						
<b>**LDC' PORTFOLIO TRC</b>	\$ 9,486,389	\$ 10,074,909	-\$ 588,520	0.94				

\* 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.