Appendix A - Evaluation of the CDM Plan

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

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

1 Expenditures are reported on accrual basis.

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

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

4 Please report spending related to 3rd tranche of MARR funding only. TRC calculations are not required for Smart Meters. Only actual expenditures for the year need to be reported.

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

(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	394 intersections		0	0
	delivered for reporting year:				
	Measure life (years):	6		0	0
					Ŭ
	Number of Participants or units				
	delivered life to date				
В.	TRC Results:		Reporting Year	Life-to-date	TRC Results:
	TRC Benefits (\$):			\$	3,342,997.96
2	² TRC Costs (\$):				, ,
	Utility r	program cost (excluding incentives):		\$	5 872 00
	Incrementa	I Measure Costs (Equipment Costs)		¢	1 944 920 00
	noromona			φ	1,044,039.00
	Not TPC (in year CDN \$);	TOTAL TRC COSTS:	<u></u>	<u> </u>	1,850,711.00
	Net TRC (III year CDN \$).		<u></u> Ф	Ψ	1,492,200.90
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):		\$	1.81
C.	Results: (one or more category may	r apply)		Cumulat	ive Results:
	Conservation Programs:				
	Demand savings (kW):	Summer			460
		Winter		46	0
				Cumulative	Cumulative
		lifecycle	in year	Lifecycle	Annual Savings
	Energy saved (kWh):		4,025,404	24,152,424	8,050,808
	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):			
	Domand Posponso Programs				
	Demand Response Programs.				
	Реак hours dispatched in year (hours	s <i>):</i>			
	Power Factor Correction Programs	S:			
	Amount of KVar installed (KVar)	—			

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

	Peak load savings (kW):			
		lifecycle	in year	
	Energy savings (kWh):			
	Distributed Generation and Load	Displacement Programs:		
	Amount of DG installed (kW):			
	Energy generated (kWh):			
	Peak energy generated (kWh):			
	Fuel type:			
	Other Programs (specify):			
	Metric (specify):			
D.	Actual Program Costs:		Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	Reporting Year -\$ 411.02	Cumulative Life to Date \$ 5,872.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	Reporting Year -\$ 411.02	Cumulative Life to Date \$ 5,872.00 \$ 526,663.65
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year -\$ 411.02 -\$ 411.02	Sumulative Life to Date \$ 5,872.00 \$ 526,663.65 \$ 532,535.65
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year -\$ 411.02 -\$ 411.02	Sumulative Life to Date \$ 5,872.00 \$ 526,663.65 \$ 532,535.65
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	Reporting Year -\$ 411.02 -\$ 411.02	Sumulative Life to Date \$ 5,872.00 \$ 526,663.65 \$ 532,535.65
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	Reporting Year -\$ 411.02 -\$ 411.02	Cumulative Life to Date \$ 5,872.00 \$ 526,663.65 \$ 532,535.65
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	Reporting Year -\$ 411.02 -\$ 411.02	Sumulative Life to Date \$ 5,872.00 \$ 526,663.65 \$ 532,535.65

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 threeyear 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).

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

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

(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 (vears):				
	Number of Participants or units				
	delivered life to date				
	denvered me to date				
В.	TRC Results:		Reporting Year	Life-to-date	TRC Results:
1	TRC Benefits (\$):		N/A - pilot data not available	N/A - pilot data	not available
2	TRC Costs (\$):		·		
	Utility i	program cost (excluding incentives).			_
	Incremente	Measure Costs (Equipment Costs)			
	merementa				
	Not TPC (in year CDN \$);	Total TRC costs:			-
	Net TRC (III year CDN \$):				-
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):		n/a	
		,			
C.	Results: (one or more category may	r apply)		<u>Cumulat</u>	ive Results:
	Concernation Programs				
	Conservation Frograms.	0		,	
	Demand savings (kw):	Summer	n/a	n/a	
		Winter	n/a	n/a	
				a <i>i i i</i>	
				Cumulative	Cumulative
		lifecycle	in year	Lifecycle	Annual Savings
	Energy saved (kWh):	n/a	n/a	n/a	n/a
	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 (hour	s):			
	Device Franker Operating Day				
	Power Factor Correction Program	<u>s:</u>			
	Amount of KVar installed (KVar):				
	Distribution system power factor at b	eginning of year (%):			

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

	Peak load savings (kW):				
		lifecycle	in year		
	Energy savings (kWh):				
	Distributed Generation and Load	Displacement Programs:			
	Amount of DG installed (kW):				
	Energy generated (kWh):				
	Peak energy generated (kWh):				
	Fuel type:				
	Other Programs (specify):				
	Metric (specify):				
D.	Actual Program Costs:		Reporting Year	Cumulative	Life to Date
	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 avalaible for the 2006 filing year.

¹ Benefits should be estimated if costs have been incurred <u>and</u> the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit b
2

(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 Replacemnent segment, directed customers to upgrade early existing fridges to Enery 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	I	Measure 2 (if applicable)	Measure 3	(if applicable)
	Base case technology:	Vintage apartment refrigerators	Norr	nal OEB Residential Progran	Chillout - Old Fr	idges
	Efficient technology:	EnergyStar refrigerators			Energy Star Frid	dge
	Number of participants or units					
	delivered for reporting year:	6603		2790	2433	
	Measure life (years):	5		14 (19 -5)		19
				· · · · ·		10
	Number of Participants or units					2433
	delivered life to date	7638	2790	h		2.00
		1000	2100			
В.	TRC Results:			Reporting Year	Life-to-date	TRC Results:
	¹ TRC Benefits (\$):		\$	3.075.987.00		3.705.411.00
	² TRC Costs (\$):					-,,
	Utility i	program cost (excluding incentives).	\$	156 089 00		\$ 156 089 00
	Incrementa	I Measure Costs (Equipment Costs)	¢	6 852 800 00		¢ 100,000.00
	morementa		φ Φ	7,000,880,00		\$7,434,553.00
	Not TDC (in year CDN ())	TOTAL TRU 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
	Denenic to Cool Fidulo (FFTO Denenica)					0.10
C.	Results: (one or more category may	apply)			<u>Cumulati</u>	ve Results:
	Conservation Programs:					
	Demand savings (kW):	Summer		836		836
		Winter		836		836
					Cumulative	Cumulative
		lifecycle		in year	Lifecycle	Annual Savings
	Energy saved (kWh):	91,431,450		16,050,528.00	180,203,110	17,539,880
	Other resources saved :					
	Natural Gas (m3):					
	Other (aposity):					
	Other (specify).					
	Demand Management Programs:					
	Controlled load (kW)					
	Energy shifted On-peak to Mid-peak	(kWh).				
	Energy shifted On-peak to Off-peak	(k//b):				
	Energy shifted Mid pack to Off pack					
	Energy snined Mid-peak to On-peak	(KVVII):				
	Demand Response Programs:					
	Dispatchable load (kW):					
	Dook hours dispatched in year (hour					
	r ear nouis uispaicheu in year (noui	s <i>).</i>				
	Power Factor Correction Program	S:				
	Amount of KVar installed (KVar)					
	Distribution system power factor at h	eainning of year (%):				
	Distribution system power lactor at D	oginning of year (70).				

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

	Peak load savings (kW):					
		lifecycle		in year		
	Energy savings (kWh):					
	Distributed Generation and Load I	Displacement Programs:				
	Amount of DG installed (kW):					
	Energy generated (kWh):					
	Peak energy generated (kWh):					
	Fuel type:					
	Other Programs (specify):					
	Metric (specify):					
D.	Actual Program Costs:		Rej	porting Year	<u>Cumulative</u>	Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	<u>Re</u>	porting Year	<u>Cumulative</u>	Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	<u>Re</u> \$	oorting Year 68,032.12	<u>Cumulative</u>	Life to Date \$ 156,089.48
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	<u>Re</u> \$ \$	68,032.12 1,299,364.65	<u>Cumulative</u>	Life to Date \$ 156,089.48 \$1,445,162.29
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Re</u> \$ \$ \$	68,032.12 1,299,364.65 1,367,396.77	<u>Cumulative</u>	Life to Date \$ 156,089.48 \$1,445,162.29 \$1,601,251.77
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Re</u> \$ \$ \$	68,032.12 1,299,364.65 1,367,396.77	<u>Cumulative</u>	Life to Date \$ 156,089.48 \$1,445,162.29 \$1,601,251.77
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	<u>Re</u> \$ \$ \$	68,032.12 1,299,364.65 1,367,396.77	<u>Cumulative</u>	Life to Date \$ 156,089.48 \$1,445,162.29 \$1,601,251.77
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	<u>Re</u> \$ \$ \$	68,032.12 68,032.12 1,299,364.65 1,367,396.77	<u>Cumulative</u>	Life to Date \$ 156,089.48 \$1,445,162.29 \$1,601,251.77
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	<u>Re</u> \$ \$ \$	68,032.12 68,032.12 1,299,364.65 1,367,396.77	<u>Cumulative</u>	Life to Date \$ 156,089.48 \$1,445,162.29 \$1,601,251.77

E. Assumptions & Comments:

1

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.

(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				
В.	TRC Results:		Reporting Year	Life-to-date	TRC Results:
	¹ TRC Benefits (\$):				\$ 33,353.62
	² TRC Costs (\$):				
	Utility p	program cost (excluding incentives):			\$ 31,289.52
	Incrementa	I Measure Costs (Equipment Costs)			\$ 24,404.70
		Total TRC costs:			\$ 55.694.22
	Net TRC (in year CDN \$):				-\$ 22.340.60
					, <u>, , , , , , , , , , , , , , , , , , </u>
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):			0.598870355
C.	Results: (one or more category may	apply)		Cumulati	ive Results:
	Conservation Programs:				
	Demand savings (kW):	Summer	33		33
		Winter	33		33
				Cumulative	Cumulative
		lifecycle	in year	Lifecycle	Annual Savings
	Energy saved (kWh):		142992	285,984	285,984
	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):			
	Demond Recencies Brogramou				
	Demanu Response Programs:				
	Dispatchable load (KW):				
	Реак nours dispatched in year (hour	s):			
	Power Factor Correction Programs	<u>s:</u>			
	Amount of KVar installed (KVar):				
	Distribution system power factor at b	eginning of year (%):			

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

	Peak load savings (kW):				
		lifecycle	in year		
	Energy savings (kWh):				
	Distributed Generation and Load I	Displacement Programs:			
	Amount of DG installed (kW):				
	Energy generated (kWh):				
	Peak energy generated (kWh):				
	Fuel type:				
	Other Programs (specify):				
	Metric (specify):				
	Metho (Specify).				
_	Metric (Specify).		-		
D.	Actual Program Costs:		Reporting Year	Cumulative Lif	e to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	Reporting Year	Cumulative Lif	e to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	Reporting Year \$ 3,866.94	Cumulative Lif	<u>e to Date</u> 35,156.46
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	Reporting Year \$ 3,866.94	Cumulative Lif	<u>e to Date</u> 35,156.46 358.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year \$ 3,866.94 \$ 3,866.94	Cumulative Life	te to Date 35,156.46 358.00 35,514.46
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year \$ 3,866.94 \$ 3,866.94	Cumulative Lif	e to Date 35,156.46 358.00 35,514.46
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	Reporting Year \$ 3,866.94 \$ 3,866.94	Cumulative Lif	e to Date 35,156.46 358.00 35,514.46
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	Reporting Year \$ 3,866.94 \$ 3,866.94	Cumulative Lif	e to Date 35,156.46 358.00 35,514.46
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	Reporting Year \$ 3,866.94 \$ 3,866.94	Cumulative Lif	<u>e to Date</u> 35,156.46 358.00 35,514.46

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.

¹ Benefits should be estimated if costs have been incurred <u>and</u> 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

(complete this Appendix for each program)

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):

Α.

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 1 Measure 2 (if applicable) Measure 3 (if applicable) Base case technology: \$ - \$ Efficient technology: Number of participants or units delivered for reporting year: \$ - \$ Number of Participants or units delivered life (years): \$ - \$ - \$ Number of Participants or units delivered life to date Image: Comparison of the tot d	Measure(s):				
Base case technology: \$ - \$ - Efficient technology: Number of participants or units - - - Number of participants or units \$ - \$ - Measure life (years): \$ - \$ - Number of Participants or units - \$ - - Number of Participants or units - - - - B. TRC Results: - - - - ' TRC Benefits (\$): - - - - -		Measure 1	Measure 2 (if applicable)	Measure 3	(if applicable)
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: ¹ TRC Benefits (\$): ² TRC Copte (\$):	Base case technology:	\$ -	\$ -		
Number of participants or units delivered for reporting year: Measure life (years): \$ - Number of Participants or units delivered life to date Image: Construction of the second seco	Efficient technology:				
delivered for reporting year: \$ - \$ - Measure life (years): Image: Second Secon	Number of participants or units				
Measure life (years): Image: Construction of the second secon	delivered for reporting year:	\$ -	\$ -		
Number of Participants or units delivered life to date Life-to-date TRC Results: B. TRC Results: Reporting Year ¹ TRC Benefits (\$): Image: Control (\$):	Measure life (years):				
Number of Participants or units delivered life to date Life-to-date TRC Results: B. TRC Results: Reporting Year ¹ TRC Benefits (\$): Image: Control (\$):					
delivered life to date Image: Constraint of the second s	Number of Participants or units				
B. TRC Results: ¹ TRC Benefits (\$): ² TRC Coptr (\$):	delivered life to date				
B. <u>TRC Results:</u> ¹ TRC Benefits (\$): ² TRC Cooth (\$):					
¹ TRC Benefits (\$):	B. <u>TRC Results:</u>		Reporting Year	Life-to-date	TRC Results:
2 TPC Costs ($^{\circ}$):	TRC Benefits (\$):				
$i \land \cup \cup \cup i \Rightarrow (\phi).$	² TRC Costs (\$):				
Utility program cost (excluding incentives):	Utility p	program cost (excluding incentives):			
Incremental Measure Costs (Equipment Costs)	Incrementa	I Measure Costs (Equipment Costs)			
Total TRC costs:		Total TRC costs:			
Net TRC (in year CDN \$):	Net TRC (in year CDN \$):				
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):			
C. Results: (one or more category may apply) Cumulative Results:	C. Results: (one or more category may	/ apply)		Cumulati	ve Results:
Conservation Programs:	Conservation Programs:				
Demand savings (kW): Summer	Demand savings (kW):	Summer			
Winter		Winter			
Cumulative Cumulative				Cumulative	Cumulative
lifecycle in year Lifecycle Annual Saving		lifecycle	in year	Lifecycle	Annual Savings
Energy saved (kWh):	Energy saved (kWh):				
Other resources saved :	Other resources saved :				
Natural Gas (m3):	Natural Gas (m3):				
Other (specify):	Other (specify):				
Demand Management Programs:	Demand Management Programs:				
Controlled load (kW)	Controlled load (kW)				
Energy shifted On-peak to Mid-peak (kWh):	Energy shifted On-peak to Mid-peak	(kWh):			
Energy shifted On-peak to Off-peak (kWh):	Energy shifted On-peak to Off-peak	(kWh):			
Energy shifted Mid-peak to Off-peak (kWh):	Energy shifted Mid-peak to Off-peak	(kWh):			
Demand Deservation	Demend Deensures Deserver				
Demand Response Programs:	Demand Response Programs:				
Dispatchable load (KW):	Dispatchable load (KW):				
Peak hours dispatched in year (hours):	Peak hours dispatched in year (hours	s):			
Power Factor Correction Programs:	Power Factor Correction Program	<u>s:</u>			
Amount of KVar installed (KVar):	Amount of KVar installed (KVar):				
Distribution system power factor at beginning of year (%):	Distribution system power factor at b	peginning of year (%):			

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

Pe	eak load savings (kW):					
г.		lifecycle	in year			
EI	nergy savings (kwn):					
<u>Di</u> Aı Eı Pe	stributed Generation and Load E mount of DG installed (kW): nergy generated (kWh): eak energy generated (kWh):	Displacement Programs:				
Fι	uel type:					
<u>O1</u>	ther Programs (specify):					
M	etric (specify):					
D. <u>A</u>	ctual Program Costs:		Reporting Year	Cumulative L	ife to	Date
Ut	tility direct costs (\$):	Incremental capital:			\$	-
		Incremental O&M:	\$ 425.34		\$;	3,906.34
		Incentive:			\$	-
		Total:	\$ 425.34	1	\$:	3,906.34
Ut	tility indirect costs (\$):	Incremental capital:				
		Incremental O&M:				

E. Assumptions & Comments:

Total:

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.

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

2

(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.

 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 a	pplicable)
	Base case technology:	HID Lighting	T12 Fluorescents	Various Lic	phting
	Efficient technology:	HID Dimming Controls	T8 with electronic ballasts	Daylight Harvesti	ng Controls
	Number of participants or units				
	delivered for reporting year:				
	Measure life (years):				
	Number of Participants or units				
	delivered life to date				
В.	TRC Results:		Reporting Year	Life-to-date TR	<u>C Results:</u>
	¹ TRC Benefits (\$):			\$	111,556.02
:	² TRC Costs (\$):				
	Utility µ	program cost (excluding incentives):		\$	2,140.00
	Incrementa	I Measure Costs (Equipment Costs)		\$	31.276.83
		Total TRC costs:		ŝ	33 416 83
	Net TRC (in year CDN \$);			\$	78 139 19
				Ψ	10,100.10
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):		\$	3.34
		(apply)		0	N 14 -
U.	Results: (one of more category may	appiy)		Cumulative F	<u> Results:</u>
	Conservation Programs				
	Demand savings (kM/):	Summer	25		25
	Demana savings (KW).	Winter	25	25	25
		Winter	20	25	
				Cumulative Cu	imulativo
		lifeavala	in yoor	Lifecycle Ar	nual Savings
		mecycle	III year		
	Cherry saved (KWII):		162300	2,434,500	324,600
	Other resources saved ?				
	Natural Gas (m3):				
	Other (specify):				
	Demand Management Programs:				
	Controlled load (k/l/)				
	Energy shifted On-neak to Mid-neak	(kM/b):			
	Energy shifted On peak to Off peak				
	Energy shinted On-peak to On-peak				
	Energy shifted Mid-peak to Off-peak	(KWh):			
	Demand Response Programs:				
	Dispatchable load (kW):				
	Book hours dispatched in year (hour				
	reak nouis dispatched in year (noui	5).			
	Power Factor Correction Program	<u>S:</u>			
	Amount of KVar installed (KVar):				
	Distribution system power factor at h	eginning of vear (%):			
	Distribution system power factor at e	nd of year (%):			
	Distribution by storn power radior at 6				

Peak load saving	s <i>(kW):</i>					
		lifecycle		in year		
Energy savings (I	(Wh):					
Distributed Gene Amount of DG ins Energy generated Peak energy gene Fuel type: Other Programs	eration and Load stalled (kW): d (kWh): erated (kWh): (specify):	<u>Displacement Programs:</u>				
Metric (specify):						
D. Actual Program	<u>Costs:</u>		<u>F</u>	Reporting Year	Cumulative Lif	e to Date
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 cos	ts (\$):	Incremental capital:				
		Incremental O&M:				

Ε. Assumptions & Comments:

2

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

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

Total:

(complete this Appendix for each program)

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

Α.

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 1 Measure 2 (if applicable) Measure 3 (if applicable) Base case technology: Refigerated Vending Machine Vending Miser Controller Number of participants or units delivered for reporting year: Number of Participants or units delivered file to date If equal to the second to the s		Measure(s):				
Base case technology: Refrigerated Vending Machine Efficient technology: VandingMiser Controller Number of participants or units VandingMiser Controller delivered for reporting year: Massaure life (years): Number of Participants or units Reporting Year delivered for reporting year: Reporting Year Measure life (years): Reporting Year * TRC Energits (\$): Life-to-date TRC Results: * TRC Energits (\$): Total TRC costs) Incremental Measure Costs (Equipment Costs) Incremental Measure Costs (Equipment Costs) Net TRC (in year CDN \$): Cumulative Results: Benefit to Cost Ratio (TRC Benefits/TRC Costs): Cumulative Results: C. Results: (one or more category may apply) Cumulative Cumulative Results: Demand savings (kW): Summer Ifecycle Intervention Programs: Controlled load (kW) Annual Savings Other (speorly): Demand Management Programs: Cumulative Cumulative Cumulative Cumulative Cumulative Cumulative Energy shifted On-peak to Off-peak (kWh): Ifecycle Demand Management Programs: Demand Response Programs: Demand Response Programs: Ifecycle Dispatchable load (kW):			Measure 1	Measure 2 (if applicable)	Measure 3	(if applicable)
Efficient technology: VendingMiser Controller Number of participants or units delivered for reporting year: Measure life (years): Image: Controller Number of Participants or units Emergy solution B. TRC Results: Reporting Year If TRC Benefits (\$): Image: Controller 2 TRC Costs (\$): Image: Controller Image: Controller Image: Controller Image: Controller Metsure life (or deliver CDN \$): Image: Controller Image: Controller Benefit to Cost Ratio (TRC Benefits/TRC Costs): Cumulative Results: Cumulative Results: Conservation Programs: Image: Commerce Comparis: Image: Commutative Cumulative Lifecycle In year Demand savings (kW): Summer Image: Commutative Cumulative Cumulative Cumulative Lifecycle Annual Savings Image: Commutative Cumulative Cumulative Lifecycle Annual Savings Other (specify): Image: Commutative Commu		Base case technology:	Refrigerated Vending Machine			
Number of participants or units		Efficient technology:	VendingMiser Controller			
delivered file (years):		Number of participants or units				
Measure life (years): Image: Construction of Participants or units delivered life to date B. TRC Results: Reporting Year Life-to-date TRC Results: TRC Results: * TRC Benefits (S): Image: Construction of Con		delivered for reporting year:				
Number of Participants or units delivered life to date Reporting Year Life-to-date TRC Results: * TRC Benefits (\$); * * * TRC Costs (\$): Utility program cost (excluding incentives): Incremental Measure Costs (Equipment Costs) Incremental Measure Costs (Equipment Costs) Met TRC (in year CDN \$): Benefit to Cost Ratio (TRC Benefits/TRC Costs): C. Results: (one or more category may apply) Cumulative Results: Conservation Programs: Demand savings (kW): Summer Other resources saved : Natural Gas (m3): Other resources saved : Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak (kWh): Demand Response Programs: Dispatchable load (kW): Energy shifted Mid-peak to Off-peak (kWh): Demand Response Programs: Dispatchable load (kW): Peak hous dispatchable load (kW): Energy shifted Mid-peak to Off-peak (kWh): Demand Response Programs: Dispatchable load (kW): Distribution system power factor at beginning of year (%): Distribution system power factor at beginning of year (%): <td< td=""><td></td><td>Measure life (years):</td><td></td><td></td><td></td><td></td></td<>		Measure life (years):				
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Benefit to Cost Ratio (TRC Benefits/TRC Costs): Cumulative Results: C. Results: (one or more category may apply) Cumulative Results: Conservation Programs: Demand savings (kW): Summer Winter Demand savings (kW): Summer Winter Cumulative Cumulative Annual Savings Iffecycle in year Lifecycle Annual Savings Other resources saved : Natural Gas (m3): Cumulative Cumulative Annual Savings Other resources saved : Natural Gas (m3): Cumulative Cumulative Annual Savings Other (specify): Other (specify): Cumulative Cumulative Cumulative Cumulative Annual Savings Demand Management Programs: Controlled load (kW) Cumulative Cu						
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Energy shifted On-peak to Mid-peak (kWh):		Controlled load (kW)				
Energy shifted On-peak to Off-peak (kWh): Energy shifted Mid-peak to Off-peak (kWh): Energy shifted Mid-peak to Off-peak (kWh): 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 (%):		Energy shifted On-peak to Mid-peak	(kWh)·			
Energy shifted Oir-peak to Oir-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 (%):		Energy shifted On-peak to Off-peak	(kWh):			
Energy shined mid-peak to Oir-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 (%):		Energy shifted Mid peak to Off peak				
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 (%):		Energy shinted Mid-peak to On-peak	(KVVII):			
Dispatchable load (kW):		Demand Response Programs:				
Peak hours dispatched in year (hours):		Dispatchable load (kW):				
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 (%):		Peak hours dispatched in vear (hour	s):			
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 (%):Distribution system power factor at end of year (%):			-)-			
Amount of KVar installed (KVar):		Power Factor Correction Program	<u>s:</u>			
Distribution system power factor at beginning of year (%): Distribution system power factor at end of year (%):		Amount of KVar installed (KVar):				
Distribution system power factor at end of year (%):		Distribution system power factor at b	eginning of year (%):			
		Distribution system power factor at e	end of year (%):			

	Peak load savings (kW):						
		lifecycle	in year				
	Energy savings (kWh):						
	Distributed Generation and Load	Displacement Programs:					
	Amount of DG installed (kW):						
	Energy generated (kWh):						
	Peak energy generated (kWh):						
	Fuel type:						
	Other Programs (specify):						
	Metric (specify):						
D.	Actual Program Costs:		Reporting Yea	ar	Cumulative	Life	to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	<u>Reporting Yea</u>	<u>ar</u>	<u>Cumulative</u>	Life	to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	<u>Reporting Yea</u> \$	ar 226.78	<u>Cumulative</u>	Life	to Date 2,082.78
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	<u>Reporting Yea</u> \$	ar 226.78	<u>Cumulative</u>	Life 1 \$	to Date 2,082.78
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Yea \$ \$	ar 226.78 226.78	<u>Cumulative</u>	Life \$ \$	to Date 2,082.78 2,082.78
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Yea	ar 226.78 226.78	<u>Cumulative</u>	Life \$ \$	to Date 2,082.78 2,082.78
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	Reporting Yea	226.78 226.78	<u>Cumulative</u>	Life \$ \$	to Date 2,082.78 2,082.78
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	Reporting Yea	226.78 226.78	<u>Cumulative</u>	Life \$ \$	to Date 2,082.78 2,082.78
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	<u>Reporting Yea</u> \$ \$	226.78 226.78 226.78	<u>Cumulative</u>	Life \$ \$	to Date 2,082.78 2,082.78

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.

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

2

(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 flourescent 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 1 Measure 2 (if applicable) Measure 3 (if applicable) Base case technology: T 12 HID Fixture Retrofit Compressor Dryer Efficient technology: T 8 6 T8 High Output Comp Air CDR Number of participants or units delivered for reporting year: 165 294 1 Measure 1 fife (years): 3 3 10 Number of Participants or units delivered life to date 165 294 1 B. TRC Results: 165 294 1 * TRC Benefits (\$): \$ 280,995.00 \$ 280,995.00 * TRC Costs (\$): Utility program cost (excluding incentives): Incremental Measure Costs (Equipment Costs) \$ 271,074.00 Met TRC (in year CDN \$): \$ 276,868.00 \$ 276,868.00 Net TRC (in year CDN \$): \$ 1.01 1.01 Conservation Programs: 1.01 1.01 1.01 Demand savings (kW): Summer 32 32
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 165 294 1 delivered for reporting year: 3 3 10 Measure life (years): 3 3 10 Number of Participants or units 165 294 1 delivered life to date 165 294 1 B. TRC Results: 165 294 1 * TRC Benefits (\$): \$ 260,995.00 \$ 280,995.00 * TRC Costs (\$): Utility program cost (excluding incentives): \$ 5,794.00 5794 Incremental Measure Costs (Equipment Costs) \$ 271,074.00 \$ 271,074.00 Net TRC (in year CDN \$): Total TRC Costs: \$ 276,868.00 \$ 276,868.00 Measure Cost Ratio (TRC Benefits/TRC Costs): 1.01 1.01 1.01 1.01 Conservation Programs: Demand savings (kW): Summer 32 32
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: 165 294 1 'TRC Benefits (\$): 294 1 1 'TRC Costs (\$): Utility program cost (excluding incentives): \$ 280,995.00 \$ 280,995.00 'TRC Costs (\$): Utility program cost (excluding incentives): \$ 271,074.00 \$ 271,074.00 Net TRC (in year CDN \$): \$ 4,127.00 \$ 4,127.00 \$ 4,127.00 Benefit to Cost Ratio (TRC Benefits/TRC Costs): 1.01 1.01 1.01 C. Results: (one or more category may apply) Cumulative Results: Cumulative Results: Demand savings (kW): Summer 32 32 32
Number of participants or units delivered for reporting year: Measure life (years): 165 294 1 Number of Participants or units delivered life to date 165 294 1 B. TRC Results: 'TRC Benefits (\$): 'TRC Benefits (\$): 'TRC Costs (\$): 165 294 1 Utility program cost (excluding incentives): Incremental Measure Costs (Equipment Costs) Incremental Measure Costs: \$ 794.00 5794.00 Net TRC (in year CDN \$): \$ 4,127.00 \$ 276,868.00 \$ 276,868.00 Net TRC (in or or more category may apply) Cumulative Results: 1.01 1.01 C. Results: (one or more category may apply) 32 32
Measure life (years): 3 3 10 Number of Participants or units delivered life to date 165 294 1 B. TRC Results: 1 TRC Benefits (\$): 165 294 1 B. TRC Results: 1 TRC Benefits (\$): Life-to-date TRC Results: \$ 280,995.00 Life-to-date TRC Results: \$ 280,995.00 2 TRC Costs (\$): Utility program cost (excluding incentives): Incremental Measure Costs (Equipment Costs) \$ 5,794.00 \$ 271,074.00 Net TRC (in year CDN \$): \$ 4,127.00 \$ 276,868.00 \$ 276,868.00 \$ 276,868.00 Benefit to Cost Ratio (TRC Benefits/TRC Costs): 1.01 1.01 1.01 C. Results: Conservation Programs: Demand savings (kW): Summer 32 32
Number of Participants or units delivered life to date 165 294 1 B. TRC Results: 1 TRC Benefits (\$): 2 TRC Costs (\$): Life-to-date TRC Results: \$ 280,995.00 Life-to-date TRC Results: 2 80,995.00 2 TRC Costs (\$): Utility program cost (excluding incentives): Incremental Measure Costs (Equipment Costs) \$ 5,794.00 5794 Net TRC (in year CDN \$): Utility program cost (excluding incentives): Incremental Measure Costs: \$ 276,868.00 \$ 276,868.00 Net TRC (in year CDN \$): \$ 4,127.00 \$ 4,127.00 \$ 4,127.00 Benefit to Cost Ratio (TRC Benefits/TRC Costs): 1.01 1.01 C. Results: Demand savings (kW): Summer 32 32
Number of Participants or units delivered life to date 165 294 1 B. TRC Results: 1 TRC Benefits (\$): 2 TRC Costs (\$): Ife-to-date TRC Results: \$ 280,995.00 Life-to-date TRC Results: \$ 280,995.00 2 TRC Costs (\$): \$ 280,995.00 \$ 280,995.00 Utility program cost (excluding incentives): Incremental Measure Costs (Equipment Costs) Incremental Measure Costs (Equipment Costs): \$ 5,794.00 Met TRC (in year CDN \$): \$ 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
B. TRC Results: Reporting Year Life-to-date TRC Results: 1 TRC Benefits (\$): \$ 280,995.00 \$ 280,995.00 2 TRC Costs (\$): Utility program cost (excluding incentives): \$ 5,794.00 \$ 5794 0 Incremental Measure Costs (Equipment Costs) \$ 271,074.00 \$ 271,074.00 0 Total TRC costs: \$ 276,868.00 \$ 276,868.00 0 Net TRC (in year CDN \$): \$ 4,127.00 \$ 4,127.00 0 Benefit to Cost Ratio (TRC Benefits/TRC Costs): 1.01 1.01 C. Results: (one or more category may apply) Cumulative Results: 2 0 Demand savings (kW): Summer 32 32
1 TRC Benefits (\$): \$ 280,995.00 \$ 280,995.00 2 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
 ² TRC Costs (\$): Utility program cost (excluding incentives): § 5,794.00 5794 Incremental Measure Costs (Equipment Costs) § 271,074.00 § 276,868.00 <u>276,868.00</u> <u>276,868.00</u> <u>276,868.00</u> <u>276,868.00</u> <u>1.01</u> <u>1.01</u> <u>1.01</u> <u>1.01</u> <u>1.01</u> <u>Conservation Programs:</u> Demand savings (kW): Summer <u>32</u> <u>32</u>
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 1.01 Conservation Programs: Demand savings (kW): Summer 32 32
Incremental Measure Costs (Equipment Costs) \$ 271,074.00 \$ 271,074.00 Total TRC costs: \$ 276,868.00 \$ 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 1.01 C. Results: (one or more category may apply) Cumulative Results: Cumulative Results: 200 Demand savings (kW): Summer 32 32 32
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 1.01 1.01 C. Results: (one or more category may apply) Cumulative Results: 1.01 1.01 Demand savings (kW): Summer 32 32 32
Net TRC (in year CDN \$): \$ 4,127.00 \$ - \$ 4,127.00 Benefit to Cost Ratio (TRC Benefits/TRC Costs): 1.01 1.01 1.01 C. Results: (one or more category may apply) Cumulative Results: Cumulative Results: Demand savings (kW): Summer 32 32
Benefit to Cost Ratio (TRC Benefits/TRC Costs): 1.01 C. Results: (one or more category may apply) Cumulative Results: Conservation Programs: Demand savings (kW): Summer 32 32
C. Results: (one or more category may apply) Cumulative Results: Conservation Programs: Demand savings (kW): Summer
C. <u>Results:</u> (one or more category may apply) <u>Cumulative Results:</u> <u>Conservation Programs:</u> Demand savings (kW): Summer 32 32
Conservation Programs: Demand savings (kW): Summer 32 32
Demand savings (kW): Summer 32 32
Winter 32 32
Cumulative Cumulative
lifecycle in year Lifecycle Annual Savings
Energy saved (kWh): 539649.78 170113.5 539649.78 170113.5
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 (%):

	Peak load savings (kW):				
		lifecycle	in year		
	Energy savings (kWh):				
	Distributed Generation and Load	Displacement Programs:			
	Amount of DG installed (kW):				
	Energy generated (kWh):				
	Peak energy generated (kWh):				
	Fuel type:				
	Other Programs (specify):				
	Matric (specify):				
	Metric (Specify).				
D.	Actual Program Costs:		Reporting Year	Cumulative Lif	e to Date
	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:

¹ Benefits should be estimated if costs have been incurred <u>and</u> 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

(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:				
	Number of participants or units delivered for reporting year: Measure life (years): Number of Participants or units delivered life to date				
	Number of Participants or units				
	delivered life to date				
В.	TRC Results:		Reporting Year	Life-to-date	TRC Results:
	¹ TRC Benefits (\$):				
	² TRC Costs (\$):				
	Utility	program cost (excluding incentives):			
	Incrementa	l 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)		Cumulati	ve Results:
	Conservation Programs:				
	Demand savings (kW):	Summer			
		Winter			
				Cumulative	Cumulative
		lifecycle	in year	Lifecycle	Annual Savings
	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 (hour	s):			
	Power Factor Correction Program	<u>s:</u>			
	Amount of KVar installed (KVar):				
	Distribution system power factor at b	eginning of year (%):			
	Distribution system power factor at e	nd of year (%):			

	Peak load savings (kW):			
		lifecycle	in year	
	Energy savings (kWh):			
	Distributed Generation and Load I	Displacement Programs:		
	Amount of DG installed (kW):			
	Energy generated (kWh):			
	Peak energy generated (kWh):			
	Fuel type:			
	Other Programs (specify):			
	Metric (specify):			
D.	Actual Program Costs:		Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	<u>Reporting Year</u>	Cumulative Life to Date

E. Assumptions & Comments:

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

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

2

(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				
	Number of participants or units delivered for reporting year: Measure life (years):				
	0,				
	Number of Participants or units				
	delivered life to date				
В.	TRC Results:		Reporting Year	Life-to-date	TRC Results:
	¹ TRC Benefits (\$):				
2	² TRC Costs (\$):				
	Utility µ	program cost (excluding incentives):			
	Incrementa	I Measure Costs (Equipment Costs)			
		Total TRC costs:			
	Net TRC (in vear CDN \$):				
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):			
C.	Results: (one or more category may	apply)		<u>Cumulati</u>	ve Results:
	Conservation Programs:				
	Demand savings (KW):	Summer			
		Winter			
				Ourselation	Quantulation
				Cumulative	
		lifecycle	in year	Lilecycle	Annual Savings
	Energy saved (kWh):				
	Other resources saved :				
	Natural Gas (m3):				
	Other (specify):				
	Domand Managamant Bragrama				
		(1.14.11.)			
	Energy snifted On-peak to Mid-peak	(KVVN):			
	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 (hour	e),			
	i ear nouis dispatched in year (noui	<i>sj.</i>			
	Power Factor Correction Programs	<u>s:</u>			
	Amount of KVar installed (KVar):				
	Distribution system power factor at b	eginning of year (%):			

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

	Peak load savings (kW):			
		lifecycle	in year	
	Energy savings (kWh):			
	Distributed Generation and Load I	Displacement Programs:		
	Amount of DG installed (kW):			
	Energy generated (kWh):			
	Peak energy generated (kWh):			
	Fuel type:			
	Other Programs (specify):			
	Metric (specify):			
D.	Actual Program Costs:		Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	<u>Reporting Year</u>	Cumulative Life to Date

Ε. 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.

¹ Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit b 2

(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:				
	Ease case technology: Efficient technology: Number of participants or units delivered for reporting year: Measure life (years): Number of Participants or units				
	Number of Participants or units				
	delivered life to date				
B	TRC Results		Reporting Year	Life-to-date	TRC Results
υ.	1 TRC Benefits (\$):		<u>Reporting rear</u>		The hesting.
	2 TRC Costs (\$):				
	l Itility r	program cost (excluding incentives):			¢
	Incrementa	Moosure Costs (Equipment Costs)			φ - Φ
	incrementa				\$ -
	Not TRO (in year ODN ())	Total TRC costs:			<u>\$</u> -
	Net TRC (in year CDN \$):				\$ -
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):			
C.	Results: (one or more category may	apply)		Cumulati	ve Results:
	(
	Conservation Programs:				
	Demand savings (kW):	Summer			
		Winter			
				Cumulative	Cumulative
		lifecycle	in year	Lifecycle	Annual Savings
	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):			
	Domand Posponso Programs:				
	Dispatabable load (kW/):				
	Dispatchable load (KVV).				
	r eak nours uspatched in year (nours	s <i>j.</i>			
	Power Factor Correction Programs	<u>S:</u>			
	Amount of KVar installed (KVar):				
	Distribution system power factor at b	eginning of year (%):			

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

	Peak load savings (kW):			
		lifecycle	in year	
	Energy savings (kWh):			
	Distributed Generation and Load	Displacement Programs:		
	Amount of DG installed (kW):			
	Energy generated (kWh):			
	Peak energy generated (kWh):			
	Fuel type:			
	Other Programs (specify):			
	Metric (specify):			
	meane (opeeny):			
D.	Actual Program Costs:		Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	Reporting Year \$ 110,177.6	Cumulative Life to Date 66 \$ 119,177.66
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	Reporting Year \$ 110,177.6	Cumulative Life to Date 66 \$ 119,177.66 \$ -
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year \$ 110,177.6 \$ 110,177.6	Cumulative Life to Date 66 \$ 119,177.66 \$ - 66 \$ 119,177.66
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year \$ 110,177.6 \$ 110,177.6	Cumulative Life to Date 66 \$ 119,177.66 \$ - 66 \$ 119,177.66 \$ \$ 119,177.66
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	Reporting Year \$ 110,177.6 \$ 110,177.6	Cumulative Life to Date 66 \$ 119,177.66 \$ - 66 \$ - 66 \$ 119,177.66
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	Reporting Year \$ 110,177.6 \$ 110,177.6	Cumulative Life to Date 56 \$ 119,177.66 \$ - \$ - 56 \$ 119,177.66 \$ - \$ 119,177.66
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	Reporting Year \$ 110,177.6 \$ 110,177.6	Cumulative Life to Date 56 \$ 119,177.66 \$ - \$ 66 56 \$ 119,177.66 \$ - \$ 119,177.66

E. Assumptions & Comments:

The TRC calcualtions will prove to be extreemely 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.

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

2

(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 (vears):				
	Number of Participants or units				
	delivered life to date				
В.	TRC Results:		Reporting Year	Life-to-date	TRC Results:
	¹ TRC Benefits (\$):				
	² TRC Costs (\$):				
	Utility	program cost (excluding incentives):			
	Incrementa	al Measure Costs (Equipment Costs)			
	noremente	Total TPC costs			
	Net TRC (in year CDN \$):	TOTAL TRU COSTS.			
	Net TKC (III year CDN \$).				
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):			
C.	Results: (one or more category may	/ apply)		<u>Cumulati</u>	ve Results:
	Conservation Programs:				
	Demand savings (kW):	Summer			
	2 omana oa migo (mr).	Winter			
		Winter			
				Cumulative	Cumulative
		lifecycle	in vear	Lifecycle	Annual Savings
	Energy payod (kl//b):	mecycle	in year	Encoyolo	/ Innual Ouvingo
	Cherry Saved (KWII).				
	Other resources saved .				
	Natural Gas (m3):				
	Other (specify):				
	Demand Management Programs:				
	Controlled load (kW)				
	Energy snifted Un-peak to Mid-peak	(KVVN):			
	Energy shifted On-peak to Off-peak	(kWh):			
	Energy shifted Mid-peak to Off-peak	: (kWh):			
	Demand Response Programs:				
	Dispatabable load (kW):				
	Dispatchable load (KVV).				
	reak nours alspatchea in year (houi	s).			
	Power Factor Correction Program	<u>s:</u>			
	Amount of KVar installed (KVar):				
	Distribution system power factor at b	beginning of year (%):			

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

	Peak load savings (kW):			
		lifecycle	in year	
	Energy savings (kWh):			
	Distributed Generation and Load I	Displacement Programs:		
	Amount of DG installed (kW):			
	Energy generated (kWh):			
	Peak energy generated (kWh):			
	Fuel type:			
	Other Programs (specify):			
	Metric (specify):			
D.	Actual Program Costs:		Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	<u>Reporting Year</u>	Cumulative Life to Date

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.

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

2

(complete this Appendix for each program)

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

Α.

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):	Moosuro 1		Massura 2 (if applicable)		Mossuro 3	(if appli	cablo)
	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	Medsure 1				Weasure 5	(ii appiid	cable)
	Number of Participants or units							
	delivered life to date							
В.	TRC Results:			Reporting Year		Life-to-date	TRC R	esults:
1	TRC Benefits (\$):							
2	TRC Costs (\$):							
	Utility p	program cost (excluding incentives):	\$	62.0	00	\$		62.00
	Incremental	l Measure Costs (Equipment Costs)						
		Total TRC costs:	\$	62.0	0	\$		62.00
	Net TRC (in year CDN \$):		-\$	62.0	0		-\$	62.00
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs)						
_								
C.	Results: (one or more category may	appiy)				Cumulati	<u>ve Resi</u>	<u>ults:</u>
	Conservation Programs:							
	Demand savings (kW):	Summer						
	3-()	Winter						
						Cumulative	Cumu	lative
		lifecycle		in year		Lifecycle	Annua	I Savings
	Energy saved (kWh):							
	Other resources saved :							
	Natural Gas (m3):							
	Other (specify):							
	Demand Management Programs:							
	Controlled load (kW)							
	Energy shifted On-neak to Mid-neak	(k\//b):						
	Energy shifted On-peak to Off-peak ((kW/h):						
	Energy shifted Mid-neak to Off-neak	(kW/h):						
	Energy on the wild peak to on peak	().						
	Demand Response Programs:							
	Dispatchable load (kW):							
	Peak hours dispatched in year (hours	s):						
	Power Factor Correction Programs	<u>s:</u>						
	Amount of KVar installed (KVar):							
	Distribution system power factor at b	eginning of year (%):						

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

	Peak load savings (kW):						
		lifecycle		in year			
	Energy savings (kWh):						
	Distributed Generation and Load	Displacement Programs:					
	Amount of DG installed (kW):						
	Energy generated (kWh):						
	Peak energy generated (kWh):						
	Fuel type:						
	Other Programs (specify):						
	Metric (specify):						
	morno (opcony).						
D.	Actual Program Costs:			Reporting Year		Cumulative Life to Date	
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	\$	Reporting Year -	\$	Cumulative Life to Date	
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	\$ \$	Reporting Year - 61.53	\$ \$	Cumulative Life to Date	53
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	\$ \$	Reporting Year - 61.53	\$ \$	Cumulative Life to Date - 61.4	53
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	\$ \$ \$	Reporting Year - 61.53 61.53	\$ \$ \$	Cumulative Life to Date - 61.4 61.4	53 53
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	\$ \$ \$	Reporting Year - 61.53 61.53	\$ \$ \$	Cumulative Life to Date - 61.3	53 53
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	\$ \$ \$	Reporting Year - 61.53 61.53	\$ \$ \$	Cumulative Life to Date - 61.4 61.4	53 53
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$ \$	Reporting Year - 61.53 61.53	\$ \$ \$	Cumulative Life to Date - 61.4 61.4	53 53
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	\$ \$ \$	Reporting Year - 61.53 61.53	\$ \$	Cumulative Life to Date - 61. 61.	53 53

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.

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

2

(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)
	Efficient technology: Efficient technology: Number of participants or units delivered for reporting year: Measure life (years): Number of Participants or units delivered life to date TRC Results:				
	Number of Participants or units				
	delivered life to date				
B.	TRC Results:		Reporting Year	l ife-to-date	TRC Results:
	¹ TRC Benefits (\$):		<u>rioponing rour</u>		The Recursor
	² TRC Costs (\$):				
	Utility	program cost (excluding incentives):			
	Incrementa	I Measure Costs (Equipment Costs)			
		Total TRC costs:			
	Net TRC (in year CDN \$):				
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs)			
	Benefit to Cost Natio (TNO Benefits)				
C.	Results: (one or more category may	[,] apply)		<u>Cumulati</u>	ve Results:
	Conservation Programs:				
	Demand savings (kW):	Summer			
		Winter			
				Cumulative	Cumulative
		lifecycle	in year	Lifecycle	Annual Savings
	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):			
	Domand Posponso Programs:				
	Dispatchable load (kW):				
	Peak hours dispatched in year (hour	·c)·			
	, call nours alopatoriou in your (nour	<i></i>			
	Power Factor Correction Program	<u>s:</u>			
	Amount of KVar installed (KVar):				
	Distribution system power factor at b	eginning of year (%):			

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

	Peak load savings (kW):				
		lifecycle	in year		
	Energy savings (kWh):				
	Distributed Generation and Load	Displacement Programs:			
	Amount of DG installed (kW):				
	Energy generated (kWh):				
	Peak energy generated (kWh):				
	Fuel type:				
	Other Programs (specify):				
	Metric (specify):				
_					
D.	Actual Program Costs:		Reporting Year	Cumulative Life	to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	Reporting Year	Cumulative Life	to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	<u>Reporting Year</u>	Cumulative Life	<u>to Date</u> 3,714.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	<u>Reporting Year</u>	Cumulative Life \$ \$	<u>to Date</u> 3,714.00 -
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Reporting Year</u>	Cumulative Life \$ \$ \$	to Date 3,714.00 - 3,714.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Reporting Year</u>	Cumulative Life \$ \$ \$ \$	to Date 3,714.00 - 3,714.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	<u>Reporting Year</u>	Cumulative Life \$ \$ \$	to Date 3,714.00 - 3,714.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	<u>Reporting Year</u>	Cumulative Life \$ \$ \$	to Date 3,714.00 - 3,714.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	<u>Reporting Year</u>	Cumulative Life \$ \$ \$	to Date 3,714.00 - 3,714.00

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.

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

2

(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):			Marana	(f and f a b b b)
	Base case technology:	Measure 1	Measure 2 (if applicable)	Measure 3	(if applicable)
	Ease case technology: Efficient technology: Number of participants or units delivered for reporting year: Measure life (years):				
	delivered for reporting year:				
	Measure life (years):				
	Number of Participants or units				
	delivered life to date				
В.	TRC Results:		Reporting Year	Life-to-date	TRC Results:
	¹ TRC Benefits (\$):				
	² TRC Costs (\$):				
	Utility µ	program cost (excluding incentives):			
	Incrementa	l Measure Costs (Equipment Costs)			
		Total TRC costs:			
	Net TRC (in year CDN \$):				
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):			
<u> </u>	Results: (one or more category may	apply)		Cumulati	vo Rosults:
0.		SPP:37		Oumaiati	ve nesuns.
	Conservation Programs:				
	Demand savings (kW):	Summer			
		Winter			
				Cumulativa	Cumulativa
		lifequele	in yoor	Lifecycle	
	Energy saved (kWh):	mecycle	in year	Encoyolo	/ Initial Cavingo
	Other resources saved :				
	Natural Gas (m3):				
	Other (specify):				
	D				
	Demand Management Programs:				
	Enorgy shifted On peak to Mid peak	(k14/b):			
	Energy shifted On-peak to Off-peak	(KVVII). (kW/b):			
	Energy shifted Mid-peak to Off-peak	(kWh):			
		(
	Demand Response Programs:				
	Dispatchable load (kW):				
	Peak hours dispatched in year (hour	s <i>):</i>			
	Power Factor Correction Programs	<u>s:</u>			
	Amount of KVar installed (KVar):				
	Distribution system power factor at b	eginning of year (%):			
	Distribution system power factor at e	nd of year (%):			

	Peak load savings (kW):			
		lifecycle	in year	
	Energy savings (kWh):			
	Distributed Generation and Load	Displacement Programs:		
	Amount of DG installed (kW):	_		
	Energy generated (kWh):			
	Peak energy generated (kWh):			
	Fuel type:			
	Other Programs (specify):			
	Metric (specify):			
D.	Actual Program Costs:		Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	<u>Reporting Year</u>	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	Reporting Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	Reporting Year	Cumulative Life to Date

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.

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

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

(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):	Moosuro 1	Moosuro 2 (if opplies	blo)	Mooguro 2	(if applic	abla)
	Base case technology: Efficient technology: Number of participants or units	Measure 1		ibie)	weasure 5	(ii applic	able)
	Efficient technology:						
	Number of participants or units delivered for reporting year: Measure life (years): 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		l ife-to-date	TRC Re	sults.
1	TRC Benefits (\$):		<u>rteporting rear</u>			1110 110	<u>ouno.</u>
2	TRC Costs (\$):						
	Utility p	program cost (excluding incentives):	\$	76.00	\$		76.00
	Incrementa	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)			<u>Cumulati</u>	<u>ve Resu</u>	<u>ilts:</u>
	Conservation Programs:						
	Demand savings (kW):	Summer					
		Winter					
						<u> </u>	
					Cumulative	Cumul	ative
	Energy acyod (kl//b);	lifecycle	in year		Lilecycle	Annua	Savings
	Other resources saved '						
	Natural Gas (m3):						
	Other (specify):						
	Demand Management Programs:						
	Controlled load (KW)	(1.1.4.1.5.).					
	Energy shifted On-peak to Off peak	(KVVII). (kVVI):					
	Energy shifted Mid-peak to Off-peak	(k//h):					
	Energy shined wild peak to on peak	(((())))					
	Demand Response Programs:						
	Dispatchable load (kW):						
	Peak hours dispatched in year (hours	s):					
	Power Factor Correction Programs	<u>s:</u>					
	Amount of KVar installed (KVar):						
	Distribution system power factor at b	eginning of year (%):					
	Distribution system power factor at e	nd of year (%):					

	Peak load savings (kW):				
		lifecycle	in year		
	Energy savings (kWh):				
	Distributed Generation and Load I Amount of DG installed (kW): Energy generated (kWh): Peak energy generated (kWh):	Displacement Programs:			
	Fuel type:				
	Other Programs (specify):				
	Metric (specify):				
D.	Actual Program Costs:		Reporting Year	Cumulative	Life to Date
	Utility direct costs (\$):	Incremental capital:			
		Incremental O&M:	\$ 75.60	\$	75.60
		Incentive:			
		Total:	\$ 75.60	\$	75.60
	Utility indirect costs (\$):	Incremental capital:	()	0
		Incremental O&M:	()	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 incluidng TRC values.

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

2

(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:				
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:
¹ TRC Benefits (\$):				
² TRC Costs (\$):				
Utility	program cost (excluding incentives):			
Incrementa	l Measure Costs (Equipment Costs)			
	Total TRC costs:			
Net TRC (in year CDN \$):				
Benefit to Cost Ratio (TRC Benefits/	TRC Costs):			
C. <u>Results:</u> (one or more category may	y apply)		<u>Cumulati</u>	ive Results:
Concernation Brogramo				
Conservation Frograms.	Summor			
Demanu savings (KW).	Winter			
	Winter			
			Cumulative	Cumulative
	lifecycle	in year	Lifecycle	Annual Savings
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 (hour	s):			
Bower Eactor Correction Brosser	e.			
Amount of KVar installed (KVar)	<u>.</u>			
Distribution system power factor at b	eginning of year (%):			

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

	Peak load savings (kW):				
		lifecycle	in year		
	Energy savings (kWh):				
	Distributed Generation and Load	Displacement Programs:			
	Amount of DG installed (kW):				
	Energy generated (kWh):				
	Peak energy generated (kWh):				
	Fuel type:				
	Other Programs (specify):				
	Metric (specify):				
	methe (opeeny).				
D.	Actual Program Costs:		Reporting Year	Cumulative Life	to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	Reporting Year	Cumulative Life	to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	<u>Reporting Year</u>	Cumulative Life	<u>to Date</u> 1,289.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	Reporting Year	Cumulative Life	<u>to Date</u> 1,289.00 -
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporting Year	Cumulative Life	to Date 1,289.00 - 1,289.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Reporting Year</u>	Cumulative Life \$ \$ \$	to Date 1,289.00 - 1,289.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	<u>Reporting Year</u>	Cumulative Life \$ \$ \$	to Date 1,289.00 - 1,289.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	Reporting Year	Cumulative Life	to Date 1,289.00 - 1,289.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	Reporting Year	Cumulative Life	to Date 1,289.00 - 1,289.00

Ε. 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.

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

2

(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					
	Efficient technology:					
	Number of participants or units					
	delivered for reporting year:					
	Measure life (years):					
	Number of Participants or units					
	delivered life to date					
В.	TRC Results:			Reporting Year	Life-to-date	TRC Results:
1	TRC Benefits (\$):		\$	2,012,075.00	\$-	\$2,012,075.00
2	TRC Costs (\$):					
	Utility p	program cost (excluding incentives):	\$	254,054.39	\$-	\$ 258,195.39
	Incrementa	I Measure Costs (Equipment Costs)				
		Total TRC costs:	\$	254,054.39	\$-	\$ 258,195.39
	Net TRC (in year CDN \$):		\$	1.758.020.61		\$1.753.879.61
			-	· · ·		
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):				
C.	Results: (one or more category may	apply)			<u>Cumulativ</u>	ve Results:
	Conservation Programs:					
	Demand savings (kW):	Summer				
	Domana carnige (nrr).	Winter				
		Winter				
					Cumulative	Cumulative
		lifecycle		in vear	Lifecvcle	Annual Savings
	Enorgy sayod (kl/h):	13 416 000		3 120 000	13 416 000	3 120 000
	Other resources saved :	13,410,000		3,120,000	13,410,000	3,120,000
	Naturai 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	(kW/b):				
	Energy shifted Mid-peak to Off-peak	(kWh):				
	Energy shined wid-peak to On-peak	(((())))				
	Demand Response Programs:					
	Dispatchable load (kW):					
	Peak hours dispatched in year (hour	s):				
	Power Factor Correction Programs	s:				
	Amount of KVar installed (KVar)					
	Distribution system nower factor at h	eainning of year (%):				
	Distribution system power factor at a	$\frac{\partial f}{\partial t} = \frac{\partial f}{\partial t} \frac{\partial f}{\partial t} + \frac{\partial f}{\partial t} \frac{\partial f}{\partial t} = \frac{\partial f}{\partial t} \frac{\partial f}{\partial t} + \frac{\partial f}{\partial t} \frac{\partial f}{\partial t} + \frac{\partial f}{\partial t} \frac{\partial f}{\partial t} + \frac{\partial f}{\partial t$				
	Distribution system power factor at e	nu u year (%).				

	Peak load savings (kW):					
		lifecycle	in	year		
	Energy savings (kWh):					
	Distributed Generation and Load	Displacement Programs:				
	Amount of DG installed (kW):					
	Energy generated (kWh):					
	Peak energy generated (kWh):					
	Fuel type:					
	Other Programs (specify):					
	Metric (specify):					
	moune (opeeny).					
D.	Actual Program Costs:		Report	ting Year	Cumulative Lif	e to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	<u>Report</u>	ting Year	Cumulative Lif	e to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	<u>Report</u> \$	t <mark>ing Year</mark> 254,054.39	Cumulative Lif	<u>e to Date</u> 258,195.39
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	Report \$ \$	ting Year 254,054.39 -	Cumulative Lif	<u>e to Date</u> 258,195.39 -
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Report \$ \$ \$	ting Year 254,054.39 - 254,054.39	Cumulative Lif \$ \$ \$ \$	e to Date 258,195.39 - 258,195.39
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Report</u> \$ \$ \$	ting Year 254,054.39 - 254,054.39	Cumulative Lif	e to Date 258,195.39 - 258,195.39
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	Report \$ \$ \$	ting Year 254,054.39 - 254,054.39	Cumulative Lif	e to Date 258,195.39 - 258,195.39
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	Report \$ \$ \$	ting Year 254,054.39 - 254,054.39	Cumulative Lif \$ \$ \$	e to Date 258,195.39 - 258,195.39
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	Report \$ \$ \$	ting Year 254,054.39 - 254,054.39	Cumulative Lif	e to Date 258,195.39 - 258,195.39

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.

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

2

Appendix C - Program and Portfolio Totals

Report Year:

2006

<u>1. Residential Programs</u>

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.

	TR	C Benefits					Benefit/Cost	Report Year Total	l ifecycle (kWh)	Total Peak Demand (kW)		Report Year
		(PV)	TR	C Costs (PV)	\$ N	et TRC Benefits	Ratio	kWh Saved	Savings	Saved	Ex	penditures (\$)
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					
*Totals App. B - Residential	\$	5,717,486	\$	7,848,899	-\$	2,131,413	0.73	19,170,528	193,619,110	836	\$	1,731,690
Residential Indirect Costs not attributable to any specific program												
Total Residential TRC Costs			\$	7,848,899								
**Totals TRC - Residential	\$	5,717,486	\$	7,848,899	-\$	2,131,413	0.73					

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.

	TF	RC Benefits (PV)	TRC	Costs (PV)	\$ N	et TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Demand (kW) Saved	C Ex	Gross C&DM
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					
*Totals App. B - Commercial	\$	425,905	\$	366,055	\$	59,850	1.16	475,406	3,260,134	90	\$	59,182

D ()(

Commercial Indirect Costs not attributable to any specific program	 			
Total TRC Costs		\$ 366,055		
**Totals TRC - Commercial	\$ 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.

										Total Peak	Report Yea	ar
	TR	C Benefits			• • •		Benefit/Cost	Report Year Total	Lifecycle (kWh)	Demand (kW)	Gross C&D	M
	_	(PV)	TRO	C Costs (PV)	\$ Ne	et TRC Benefits	Ratio	kWh Saved	Savings	Saved	Expenditures	s (\$)
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					
*Totals App. B - Institutional	\$	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												
Total TRC Costs	_		\$	1,850,711								
**Totals TRC - Institutional	\$	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				



5. Agricultural Programs

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

Note: To ensure the integrity of the	e formulas, please	insert the addition	hal rows in the middle	e of the list bel	ow.			
	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				
*Totals App. B - Agricultural	\$-	\$-	\$-	0.00	0	0	0	\$-
Agricultural Indirect Costs not attributable to any specific program								
Total TRC Costs		\$-						
**Totals TRC - Agricultural	\$ -	\$-	\$ -	0.00				

6. LDC System Programs

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

	TRC Benefits			Benefit/Cost	Report Year Total	Lifecycle (kWh)	Total Peak Demand (kW)	Report Year Gross C&DM
	(PV)	TRC Costs (PV)	\$ Net TRC Benefits	Ratio	kWh Saved	Savings	Saved	Expenditures (\$)
Distributor Shunt Program	\$-	\$-	\$-	0.00	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				
*Totals App. B - LDC System	\$-	\$-	\$ -	0.00	0	0	0	\$-
LDC System Indirect Costs not attributable to any specific program								
Total TRC Costs		\$ -						
**Totals TRC - LDC System	\$ -	\$ -	\$-	0.00				

7. Smart Meters Program

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

Report Year Gross C&DM Expenditures (\$)

s (\$)

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			Benefit/Cost	Report Year Total	l ifecycle (kWh)	Total Peak	Report Year
	(PV)	TRC Costs (PV)	\$ Net TRC Benefits	Ratio	kWh Saved	Savings	Saved	Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$-	0.00				
Name of Program C			\$-	0.00				
Name of Program D			\$-	0.00				
Name of Program E			\$-	0.00				
Name of Program F			\$-	0.00				
Name of Program G			\$-	0.00				
Name of Program H			\$-	0.00				
Name of Program I			\$-	0.00				
Name of Program J			\$-	0.00				
*Totals App. B - Other #1	\$-	\$-	\$-	0.00	0	0	0	\$-
Other #1 Indirect Costs not attributable to any specific program								
Total TRC Costs		\$-						
**Totals TRC - Other #1	\$-	\$ -	\$-	0.00				

9. Other #2 Programs List each Appendix B in the cells below; Insert additional rows as required. Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TDC Demofite			Demofit/Coot	Domost Voor Totol		Total Peak	Report Year
	(PV)	TRC Costs (PV)	\$ Net TRC Benefits	Ratio	kWh Saved	Savings	Saved	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				
*Totals App. B - Other #2	\$-	\$-	\$-	0.00	0	0	0	\$-
Other #2 Indirect Costs not attributable to any specific program								
Total TRC Costs		\$-						
**Totals TRC - Other #2	\$ -	\$ -	\$ -	0.00				

LDC's CDM PORTFOLIO TOTALS

	TR	RC Benefits (PV) TRC		TRC Costs (PV)		et TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings		Total Peak Demand (kW) Saved		Report Year Gross C&DM Expenditures (\$)	
*TOTALS FOR ALL APPENDIX B	\$	9,486,389	\$	10,065,665	-\$	579,277	0.94	23,671,338	221,031,668	\$	1,386	\$	1,799,705	
Any <u>other</u> Indirect Costs not attributable to any specific program			\$	9,244										
TOTAL ALL LDC COSTS			\$	10,074,909										
**LDC' PORTFOLIO TRC	\$	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.