AMPCO Table # 1

Comparison of THESL's OPA & Board Approved CDM Programs

	TOTAL	Industrial	Commercial	Consumer	OPA CDM Programs	THESL Target Provincial Target % of Prov Target
	MWh Budget	MWh MWh Budget	MWh MWh Budget	MWh Budget		Peak Savings MW 286.77 1,330.04 21.6%
Exhibit J, Tab 10, Schedule 1,Page	221 1,140,798 \$50,194,721	58 141,790 \$4,006,373	123 765,871 \$32,199,168	40 233,137 \$13,989,180		Consumption Savings GWh 1,303.99 5,999.97 21.7%
	77% 88%	20% 11% 8%	43% 59% 64%	14% 18% 28%	%	
	\$227,125	\$69,075	\$261,782	\$349,730	\$/MW	
	\$44	\$28	\$42	\$60	\$/MWh	
	TOTAL	Industrial	Commercial	Consumer	S/MWh CDM Programs	
Exhibit J, Tab 10, Schedule 3,Page 2	MWh Budget	MWh MWh Budget	MWh MWh Budget	MWh Budget	1	
Exhibit I, Tab 9, Schedule 25	24.42 127,290 50,652,853	0.11 6,037		13.5 10,700 \$26,802,207	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Exhibit J, Tab 2, Schedule 7	9% 10%	2%	45%	53%	%	
	\$2,074,236	; ; ;	7 to 1 to	\$1,985,349	\$/MW	
	\$398			\$2,505	\$/MWh	
	245 1,268,088				Projected THESL Savings Total	
Exhibit I, Tab 2, Schedule 6	41.35 MW 35,902 MWh				Shortfall	

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BOARD-APPROVED CDM PROGRAM

COMMERCIAL PROGRAM

4 Initiative Number: 6

5 Initiative Name: Double Return Plus ("DRP")

6 Initiative Frequency: Year round

7 Target Customer Type(s): Commercial and industrial interval metered customers with

average peak load of 200 kW or above.

Years of Operation for the Initiative: 2011 to 2014, subject to annual reviews and
 approvals.

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1. Initiative Description

The Double Return Plus Initiative ("DRP") targets approximately 900 interval-metered commercial and industrial ("C/I") customers with an average monthly peak load in excess of 200 kW. The objective of this Initiative is to reduce the customers' peak demand, which, in turn, is expected to reduce the total system peak demand by up to 20 MW. This Initiative has an expected program cost of \$4.1 million (\$200/kW) inclusive of incentives.

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The Double Return Plus Initiative has two components: a peak demand reduction and an energy efficiency component. This Initiative encourages the customers to reduce their summer peak demand relative to their summer demand in the previous year by at least 5%. The energy efficiency savings will be achieved through the installation of a load management system. The proposed Initiative will fund of the cost of a load management system, up to a maximum of This Initiative will enable customers to control and reduce their summer peak demand as well as achieve sustainable energy savings.

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- The performance incentive payments will be set equal to double the amount of reduction
- in delivery charges on the customer's bill resulting from achieving a reduction in their
- peak load. While the participants are encouraged to optimize their reduction in their peak
- demand, incentives are only applied to savings that range from a minimum of 5% to a
- 5 maximum of 10% reduction. For every dollar the customer saves in reduced delivery
- 6 charges, the program will provide two dollars in incentive payments.
- 8 In addition to performance incentives, this Initiative will offer a range of behind-the
- 9 meter services including online technical services, on-site visits, energy efficiency and
- demand response workshops, and employee engagement kits.
- The program will primarily be delivered directly by Hydro One with the help of a number
 - of third party vendors to assist with the promotion and delivery of the technical services
- to the customers.

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2. Non-Duplicative Features of the Initiative

- 17 The unique elements of the Initiative are:
- Non-Dispatchable versus Dispatchable Demand Response: The Double Return
- Plus Initiative is not duplicative of the OPA Demand Response Programs because it is
- based on non-dispatchable load control and it also aims at reducing energy
- consumption. By contrast, the OPA Province-wide Demand Response programs are
- based on dispatchable load control and, as a result, have minimal energy savings.
- Non-dispatchable load control means that it is left to the customer's discretion
- whether they wish to reduce their peak demand and the time at which they reduce
- demand given the customers business needs and production cycles. Dispatchable
- load control, on the other hand, means that the customer must respond to the IESO's
- request that they curtail a contracted amount of their load or face penalties (e.g.,
- under Demand Response 3) for not doing so. Further, the OPA had already approved
- the Double Return program as a Custom Program distinct from the OPA's Demand

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- Response 1/Demand Response 3 programs, and all three programs coexisted in the marketplace in 2008 and 2009.
- Bring demand response and energy efficiency together: The Initiative equips the 3 customer with the information and tools to meet demand reduction as well as energy savings, all in one initiative. Hydro One will hire third party vendor(s) so that 5 participants will have access to a range of technical and information services that would help them better understand their energy usage and assist them in identifying 7 areas where they can reduce their energy consumption and shift or shave their peak 8 load. Several tools including workshops, online assistance, and written information 9 material would be used to assist customers to reach this goal. The Initiative will also 10 offer free expert on-site visits to identify specific opportunities in customers' facilities I 1 focusing on loads associated with industrial processes, motors, lighting, compressed 12 Bringing together demand response and energy air, and electro-technologies. 13 efficiency is a unique feature compared to OPA-contracted Demand Response 14 initiatives available in the market 15
 - No cost low cost opportunities: Double Return Plus helps identify savings potential at limited and/or no cost to the customer. For example, a change in the customer's behaviour will come at no cost, whereas an installation of a control device would come at low cost. The focus on operational and behavioural changes brings about a culture of conservation in the business markets.

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3. Background

The initial Double Return Initiative was designed by Hydro One and offered under
Market Adjusted Rate of Return (MARR) funding in 2006/2007. This Initiative was very
successful and became popular among Hydro One customers as well as other
stakeholders. Further, the OPA approved the Double Return program as a Custom
Initiative in 2008/2009 where the program coexisted with the OPA's Demand Response
1/Demand Response 3 programs. The proposed Double Return Plus is a new generation
of the original Initiative with enhanced features for the 2011-2014 period.

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2 4. Initiative Elements

- 3 While the key success factor in the original Double Return program has been the
- 4 simplicity of its design, the new Double Return Plus initiative includes three additional
- 5 components:

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- Reply Card: A requirement to submit a "Reply Card" by participating customers.
- 7 The Reply Card ensures that the customer is interested and committed to the
- 8 Initiative.
- Action Plan: A requirement to complete a multiple choice two-paged "Action Plan"
- The Action Plan identifies the steps which the customer plans to take to meet the
- minimum peak load reduction (of at least 5% of the average summer June-August
- peak load as compared to the previous year) to qualify for the financial incentive.
- Load Management System: The availability of financial incentives to enable
- participants to purchase a Load Management System to perform load balancing
- through energy management programming to achieve savings. The financial
- incentives will cover the cost of the system, up to a maximum of

18 Other Initiative offerings include:

- Incentives: Double Return Plus incentives will be set to equal double the amount of
- reduction in delivery charges on the customer's bill resulting from achieving 5% -
- 21 10% reduction in the summer peak load as compared to the previous year. Double
- Return Plus incentives will also provide funds up to of the cost of the Load
- 23 Balancing/Management System up to per system.
- Behind-the-meter services: this Initiative will offer on-going technical services
- 25 including:
- o customized online information
- o expert site visits/assistance
- o Double Return Plus energy workshops
- o employee engagement kits

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5. Purpose of the Initiative

The Double Return Plus Initiative will offer the key elements required to assist the

medium to large C&I sectors in the successful pursuit of continuous and deeper energy

savings beyond the traditional C/I CDM programs that focus only on technology or

5 equipment replacement.

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6. Projected reduction in Peak Electricity Demand (MW)

8 This Initiative is projected to achieve 21 MW peak reduction by the end of 2014. For

9 Double Return Plus a portion of the peak reduction will have one year persistence

attributable to behavioural changes, and the remaining peak reduction will have multi-

year persistency attributable to the application of the load management system.

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	Total .	Peak Red	luction (MW) 201	1-2014
	2011	2012	2013	2014	Total Coincident Peak Demand Reduction by end of 2014 (MW)
Double Return Plus (MW)	7.9	12.5	16.5	21.0	21

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7. Total Projected Reduction in Electricity Consumption (MWh)

15 This Initiative is projected to achieve 52 GWh cumulative energy reduction by 2014.

Energy reduction attributable to the portion of Double Return Plus for peak shaving will

have one-year persistence, while the load balancing component will enhance persistency

of results achieved in the Initiative.

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	${f T}$	otal Energy	Reduction ()	1Wh) 2011-20	14
					Lofal Emergy Reduction
	2011	2012	2013	2014	Cimulative 2014 2014
Double	3.0.010/5.05.03.05.00				
Return					
Plus					
(MWh)	9,250	12,200	14,450	16,100	52,000

8. Projected Budget

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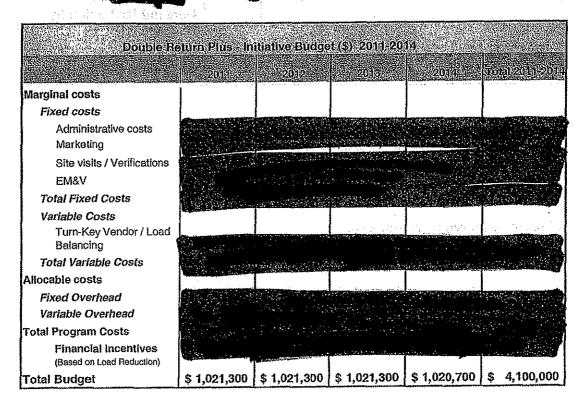
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The total cost estimate for the Initiative is approximately \$4.1million (inclusive of incentives), and the incentives include a financial contribution towards a load management system (covering of the cost of the system up to a maximum of as well as performance incentives for achieved results for a total of approximately (roughly per summer season).



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Note: The total budget shown above is projected to be allocated between commercial and industrial

3 participants on a 40/60 basis, respectively.

9. Cost Effectiveness Test Results

• TRC ratio: 11.3

7 • PAC ratio: 7.4

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10. Draft Evaluation Plan

Hydro One will ensure that the Double Return Plus Initiative will be evaluated in 10 accordance with the OPA's EM&V Protocol for any custom measures not included in the 11 OPA's Measures and Assumption List. A Draft Evaluation Plan is attached based on the 12 most current version available on the OPA's website as of Oct. 15, 2010. The Initiative 13 Final Evaluation plan will be prepared by an independent third party. The selection of 14 the evaluation criteria and detailed elements of the Evaluation Plan will be determined by 15 the independent third party. Measurement and verification of Initiative peak demand 16 savings (kW) and electricity savings (kWh) results will be conducted by a third party 17 review contractor selected through an RFP process from the OPA's "Third Party Vendor 18 of Record" list once the Initiative is approved. 19

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The following is a DRAFT EVALUATION PLAN TEMPLATE:

Table 2: Summary of THESL CDM Programs - EDR-funded and OPA-funded (\$000s)

0 8,502 0 8,502 0 8,502 0 8,502 0 3,075 0 739 0 739 0 437 0 437 0 437 0 437 0 0 0	63,719,00 63,719,00 63,719,00 13,316,00 5,210,00 13,333,00 13,333,00 N/A N/A N/A	7,610 N/A N/A 260 210 210 3,330 N/A 3,800 N/A 0	2,667 833 6,432 1,771 338 2,110 8,542 338 2,110 8,542 1,333 417 3,216 417 3,216 1,631 1,631 1,631 1,983	491 491 491 0 0 491 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	731 66 797 6,726 917 917 508 1,312 2,364 2,364 880	1,326 1,326 1,326 21 21 21 21 189 252 252 273 284 857	OEB OEB al OPA	OPA Programs Total Residential Load Control CDM Program Governance OEB Programs Total Grand Total Mass Market Social Housing Business Incentive Programs Total OPA Programs Total Program Support OPA Programs Total Residential Load Control CDM Program Governance OEB Programs Total	2009
	63,719,00 63,719,00 63,719,00 13,315,00 5,210,00 13,333,00 N/A 31,860,00	7 7 7 2 3	4 3 4 8 2 1 6 2		731 86 797 6,726 6,726 917 917 508 1,312 2,364 811 811	1,326 272 8,22 1,326 21 21 21 21 189 2,52 2,52 2,53 2,53 2,53		GPA Programs Tota Residential Load Control CDM Program Governance OEB Programs Tota Grand Total Mass Market Social Housing Business Incerdive Program Program Support OPA Programs Tota Residential Load Control Residential Load Control Residential Load Control	2009
	63,719,00 63,719,00 63,719,00 13,315,00 5,210,00 13,333,00 NJA 31,860,00	7 2 2			731 86 797 6,726 917 508 1,312 2,364 811	272 822 1,326 21 21 21 21 189 252		Residential Load Control CDM Program Governance CDM Program Governance OEB Programs Tota Grand Total Mass Market Social Housing Business Incentive Program Support OPA Programs Total Program Support OPA Programs Total	2009
	63,719,00 63,719,00 63,719,00 13,316,00 5,210,00 13,333,00 N/A 31,860,00	7 2 2	2,667 833 6,432 1,777 338 2,110 8,542 938 528 1,333 4,17 3,216	49 49 49	731 66 797 6,726 917 508 1,312 2,364 2,364	272 822 1,326 21 21 21 21 189 252		Residential Load Court of CDM Program Governance CDM Program Governance OEB Programs Tota Grand Total Mass Market Social Housing Business Incertive Program Total Program Support OPA Programs Total	2009
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	63,719,00 N/A 63,719,00 13,316,00 5,210,00		2,667 833 6,432 1,771 338 2,110 8,542 938	49 49	731 86 797 6,726	272 822 1,326 21 21		GPA Programs Tota Residential Load Control CDM Program Governance OEB Programs Tota Grand Total Mass Market Social Housing	2009
	63,719,00 N/A 63,719,00		2,687 833 6,432 1,771 338 2,110 8,542	49 49	731 86 797 6,726 917	272 822 1,326	 	GPA Programs Tota Residential Load Control CDM Program Governance OEB Programs Tota Grand Total Mass Market	2009
	63,719,00 N/A 63,719,00	N/A 7,610 N/A 0 7,610	2,867 833 6,432 1,771 338 2,110 8,542		731 86 797 6,726	272 822 1,326		GPA Programs Tota Residential Load Contol CDMProgram Governance OEB Programs Tota Grand Total	2009
	63,719,00 N/A 63,719,00	N/A 7,610 N/A 0 7,610	2,667 833 6,432 1,771 338 2,110 8,542		731 86 797 6,726	272 822 1,326		OPA Programs Tota Residential Load Control CDM Program Governance OEB Programs Tota Grand Total	2009
	63,719,00 N/A	7,610 7,610 N/A N/A	2,687 833 6,432 1,777 338 2,110		731 66 797	272 822	-	OPA Programs Tota Residential Load Control CDM Program Governance OEB Programs Tota	2009
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	6	7,610	2,667 833 6,432				1	OPA Programs Total	3
	1467	N/A	2,667 833	0	5 928	504		6	
	2.33		2,667	0	455	378	OPA	Program Support	
	26,667,000	6,670		0	2,525	42	OPA	Business Incentive Program	
	10,420,000	420	1,057	0	1,015	42	OPA	Social Housing	
6,150	26,633,000	530	1,875	0	1,833	42	OPA	Mass Market	
52,685	63,719,000	57,610	8,357	385	6,680	1,292		Grand Total	
		50,000	1,925	385	752	788		OEB Programs Total	
	NA	N/A	326	0	2	261	0EB	CDMProgram Governance	
44	0	50,000	1,599	385	887	527	0EB	Residential Load Control	
									2002
8,502	63,719,000	7,610	6, 432	0	5,928	504		OPA Programs Total	
NA		NYA	833	0	48	378	0PA	Program Support	,
875	26,667,000	6,670	2,667	0	2,625	42	OPA	Business Incentive Program	
1,477	10,420,000	420	1,057	0	1,015	42	OPA	Social Housing	
6,150	26,633,000	530	1,875	0	1,833	42	OPA	Mass Market	
Benefits Benefit/Cost	ley Kati	₩.			Other	Labor 1	Source	-	

Note 1: Note 2: TRC Test results reflect all the costs for the 2008-2010 Residential Load Control operation and the 50MW demand response capacity installed prior to 2008 Residential Load Control program costs for 2008-2010 are reflected in the 2008 TRC Test results