

Whitby Hydro Electric Corp.

CDM/GEA 2011-2014 Strategy Filing

November 1, 2010

Whitby Hydro Electric Corp.

CDM Strategy Filing

November 1, 2010

1. **Distributor's Name:** Whitby Hydro Electric Corp. (License # ED-2002-0571) is filing this Strategy with the Ontario Energy Board (OEB) in accordance with the OEB's September 16, 2010 Issuance of the Conservation and Demand Management Code for Electricity Distributors (EB-2010-0215). The Strategy outlines how Whitby Hydro Electric Corp. will meet the electricity demand and consumption targets set out in its license.
2. **Total Reduction in Peak Provincial Electricity Demand (MW) Target:** 11 MW per the proposed CDM Targets for Electricity Distributors issued by the OEB on June 22, 2010. Please note that this is a preliminary figure currently under review by the OEB.
3. **Total Reduction in Electricity Consumption (kWh) Target:** 39,000,000 kWh per the proposed CDM Targets for Electricity Distributors issued by the OEB on June 22, 2010. Please note that this is a preliminary figure currently under review by the OEB.
4. **CDM Strategy**

4.1. High Level Description of CDM Strategy

Whitby Hydro utilized the OPA's Resource Planning Tool to forecast their reductions in Peak Provincial Electricity Demand and Electricity Consumption. The streamlined version of the Resource Planning Tool was used to forecast results for the Consumer, Commercial and Institutional and Industrial programs as recommended by the OPA. OEB 2009 Yearbook class customer counts were used to determine Whitby Hydro's percent of the OPA's provincial forecasted program participation for the years 2011-2014.

Whitby Hydro also took into consideration their service territory's residential profile and past CDM program results when reviewing the results of the Resource Planning Tool.

This strategy does not take into consideration the significant portion of the target that the OPA expects to result from smart meter and time-of-use rate implementation. The OPA advised that the CDM targets assigned to all electricity distributors should include approximately 308MW of savings related to smart meters and time-of-use rates.

The following tables summarize our annual incremental savings, annual resource savings and cumulative savings by year which at this time is our preliminary review of the expected annual milestones of both peak demand and energy consumption through the delivery of the OPA-contracted Province-Wide programs.

Annual Incremental Savings	2011	2012	2013	2014
Peak Demand Reduction – MW	2.31	2.80	3.11	3.34
Electricity Consumption Reduction - MWh	4,043	4,874	5,024	5,310

Annual Resource Savings	2011	2012	2013	2014
Peak Demand Reduction – MW	2.31	4.57	6.78	9.18
Electricity Consumption Reduction - MWh	4,043	8,837	13,088	17,582

Cumulative Savings	2011	2012	2013	2014
Electricity Consumption Reduction - MWh	4,043	12,880	25,968	43,550

5. OPA Contracted Province-Wide CDM Programs

5.1. Program Descriptions

Consumer Programs

Name	Years	Description	Target Customers
Instant Rebates	2011-14	In-store discounts on energy efficient products	Residential
Midstream Electronics Incentive	2011-14	Retail promotion of energy efficient televisions	Residential
Midstream Pools Incentive	2011-14	Retail promotion of "right sized" pool equipment	Residential
HVAC Rebates	2011-14	On-line rebates on high efficiency replacement of heating/cooling systems	Residential
Appliance Retirement	2011-14	Free pick-up/decommissioning of old, working inefficient appliances	Residential
Exchange Events	2011-14	Room air conditioner and dehumidifier exchange events at retailers	Residential
Residential New Construction	2011-14	Incentives for builders to construct efficient, smart, and integrated new homes	Residential
Residential Demand Response	2011-14	Free, installed direct load control devices and in-home display systems/capability. Non-DR offers: subsidized in-home display systems/capabilities	Residential
TOTAL	2011-14	4,430 KW	22,727 MWh

Whitby Hydro's plan is based upon the assumption that there will be sufficient funding available to run and operate the Consumer programs. Because there is no funding formula announced yet from the OPA, the above listing of programs and total expected reductions are very preliminary. Adjustments to this plan may be required when funding dollars are known. No budget projections have been included.

Commercial and Institutional Programs

Name	Years	Description	Target Customers
ERIP	2011-14	The Electricity Retrofit Incentive Program is an incentive program designed to encourage high-efficiency electricity retrofits to existing structures.	Commercial Institutional
Power Savings Blitz	2011-14	Existing building retrofit projects for small business customers in the General service <50kW	Commercial Institutional
Small Commercial Demand Response	2011-14	Free, installed direct load control devices and in-home display systems/capability. Non-DR offers: subsidized in-home display systems/capabilities	Commercial Institutional
DR1	2011-14	An initiative where distribution-connected electricity customers voluntary provide DR capabilities to reduce peak demand and increase system reliability	Commercial Institutional
DR3	2011-14	An initiative where distribution-connected electricity customers to provide DR capability to mandatorily reduce peak demand and increase system reliability	Commercial Institutional

TOTAL	2011-14	4,400 KW	19,181 MWh
--------------	---------	----------	------------

Whitby Hydro's plan is based upon the assumption that there will be sufficient funding available to run and operate the Commercial and Institutional programs. Because there is no funding formula announced yet from the OPA, the above listing of programs and total expected reductions are very preliminary. Adjustments to this plan may be required when funding dollars are known. No budget projections have been included.

Industrial Programs

Name	Years	Description	Target Customers
ERIP	2011-14	The Electricity Retrofit Incentive Program is an incentive program designed to encourage high-efficiency electricity retrofits to existing structures.	Industrial
DR	2011-14	An initiative where distribution-connected electricity customers voluntary provide DR capabilities to reduce peak demand and increase system reliability	Industrial
DR3	2011-14	An initiative where distribution-connected electricity customers to provide DR capability to mandatorily reduce peak demand and increase system reliability	Industrial
TOTAL	2011-14	350 KW	1,642 MWh

Whitby Hydro's plan is based upon the assumption that there will be sufficient funding available to run and operate the Industrial programs. Because there is no funding formula announced yet from the OPA, the above listing of programs and total expected reductions are very preliminary. Adjustments to this plan may be required when funding dollars are known. No budget projections have been included.

6. Potential Board-Approved CDM Programs

6.1. At this time Whitby Hydro Electric Corp. does not have any Board-Approved programs planned. In order to meet its targets Whitby Hydro may develop and submit, as required potential Board-Approved programs, one of which would be relating to Time-Of-Use savings.

7. Program Mix

7.1. Section 5 above shows that programs will be delivered to all customer types in Whitby Hydro's service area, including residential, commercial, industrial, and institutional customers.

Whitby Hydro intends to participate in the Low Income Programs once additional information has been made available on the low income program options and funding. Since there have been no low income programs announced by the OPA, Whitby Hydro cannot provide any information, nor target levels at this time.

8. CDM Programs Co-ordination

8.1. Whitby Hydro is working closely with other LDCs of similar size or geographical closeness in the administration, marketing and implementation of the current OPA Contracted Province-Wide programs being offered. Through this continued collaboration Whitby Hydro expects to achieve efficiencies of delivery and cost savings in the future.

Whitby Hydro will work with local Social Service Agencies, local municipal governments, natural gas distributors and other electrical distributors to deliver low income programs.