

OVERVIEW OF CDM PLAN
This CDM Plan must be used by the LDC in submitting a CDM Plan to the IESO under the Energy Conservation Agreement between the LDC and the IESO The CDM Plan will consist of the information provided in this document and any additional information and supporting documents provided by the LDC to the IESO in support of this CDM Plan. Capitalized terms not otherwise defined herein have the meaning ascribed to them in the Energy Conservation Agreement as may be applicable.
Complete all fields within the CDM Plan that are applicable. Where additional space is required to complete a section of the CDM Plan, please append additional pages as required. The LDC should indicate that additional information has been attached in the related question field on the CDM Plan. Please refer to the CDM Plan Submission and Review Criteria Rules for further information.

A. General Information

1.	CDM Plan Submission Date: <i>(DD-Mon-YYYY)</i>	1-May-2015
	CDM Plan Version	2015_v4

2.	LDC INFORMATION									
	LDC 1	LDC 2	LDC 3	LDC 4	LDC 5	LCD 6	LCD 7	LCD 8	LCD 9	LCD 10
	LDC Name:	Welland Hydro-Electric System Corp.								
	Company Representative:									
	Name:	Jason Biesma								
	Title:	Customer Service and CDM Manager								
	Email Address:	jbiesma@wellandhydro.com								
	Phone Number (XXX-XXX-XXXX):	905-732-7776								

3.	Primary Contact for CDM Plan	
	Name:	Jason Biesma
	LDC Name:	Welland Hydro-Electric System Corp.
	Title:	Customer Service and CDM Manager
	Email Address:	jbiesma@wellandhydro.com
	Phone Number (XXX-XXX-XXXX):	905-732-7776

Estimated Start Date of CDM Plan: <i>(DD-Mon-YYYY)</i>	1-Oct-2015
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LDC CONFIRMATION FOR CDM PLAN	
Each LDC to this CDM Plan has executed the Energy Conservation Agreement.	Yes
A completed Cost-Effectiveness Tool is attached and forms part of the CDM Plan.	Yes
A completed Achievable Potential Tool is attached and forms part of the CDM Plan.	Yes
All customer segments in each LDC's service area are served by the Programs set out in this CDM Plan.	Yes
The CDM Plan includes all electricity savings attributable to all Programs and pilot programs that have in-service dates between Jan 1, 2015 and December 31, 2020.	Yes
The CDM Plan Budget for each LDC includes all eligible funding under the full cost recovery and pay-for-performance mechanisms for Programs under its CDM Plan.	Yes
Frequency of LDC Invoicing to IESO (subsequent changes to the frequency should be notified to us by email).	Monthly

COMPLETE FOR CDM PLAN AMENDMENTS ONLY		
Select the reason(s) for CDM Plan amendment, as per ECA.		
One time each calendar year of the term		
LDC wishes to request an adjustment to the CDM Plan Budget		
The amendments to a provision of the ECA or any Rules will have a material effect on the CDM Plan		
LDC's actual spending under CDM Plan has exceeded (or is reasonably expected to exceed) the portion of the CDM Plan Budget allocated to the current year of the term		
Under a joint CDM Plan, LDCs that are parties to a joint CDM Plan reallocate any portion of their respective CDM Plan Targets and CDM Plan Budgets <i>[Reallocation not subject to IESO approval]</i>		
IESO has triggered remedies under Article 5 of the ECA		
LDC seeking to change its selection of the type of funding that it wishes to receive for each Program in the CDM Plan [ECA, section 4.1]		
Other (Please specify reason)		

B. LDC Authorization

LDC DECLARATION	
Please complete the declaration for each LDC that is listed in this CDM Plan. A separate page with each LDC's signed declaration should be included as part of the CDM Plan submission.	

LDC	
<i>I represent that the information contained in this CDM Plan as it relates to the LDC is complete, true, and accurate in all respects. I acknowledge and agree to the following terms and conditions: (1) if this CDM Plan is approved by the IESO and accepted by each LDC to this CDM Plan, the CDM Plan together with any conditions to that approval is incorporated by reference into the Energy Conservation Agreement between the LDC and the IESO (2) the LDC will offer the Programs set out in Table 2 of this CDM Plan to customers in its service area; and (3) the LDC of will implement this CDM Plan in accordance with the CDM Plan Budget.</i>	
LDC's Legal Name:	Welland Hydro-Electric System Corp.
Company Representative:	Ross Peever - President and CEO
Signature	
	<i>I/We have the authority to bind the Corporation.</i>
Date (DD-Mon-YYYY)	30-Apr-2015

C. CDM Plan Summary

TABLE 1: SUMMARY OF CDM PORTFOLIO SAVINGS AND BUDGET												
		CDM PLAN TOTAL	LDC 1	LDC 2	LDC 3	LDC 4	LDC 5	LCD 6	LCD 7	LCD 8	LCD 9	LCD 10
a.	Allocated LDC CDM Plan Target (MWh) <i>Indicate total CDM Plan Target allocated to LDC(s)</i>	25,500	25,500.0									
b.	CDM Plan MWh Savings <i>Calculated as part of CDM Plan</i>	25,500	25,500	0	0	0	0	0	0	0	0	0
c.	Allocated LDC CDM Plan Budget (\$) <i>Indicate total budget allocated to LDC</i>	\$6,584,437	\$6,584,437.00									
d.	Total CDM Plan Budget (\$) <i>Calculated as part of CDM Plan</i>	\$6,584,434	\$6,584,434	0	0	0	0	0	0	0	0	0
f.	CDM Plan Cost Effectiveness <i>Indicate annual portfolio-level Cost Effectiveness for CDM Plan as determined by LDC(s) using output from Cost-Effectiveness Tool</i>		Total Resource Cost (TRC)			Program Administrator Cost (PAC)			Levelized Cost (\$/kWh)			
			Program Year	Benefits (\$)	Costs (\$)	Ratio	Benefits (\$)	Costs (\$)			Ratio	
		2015	5,090,760	2,118,170	2.4	4,318,444	175,914	24.5	\$0.003			
		2016	4,008,913	2,228,753	1.8	3,351,780	914,346	3.7	\$0.019			
		2017	4,509,977	2,385,631	1.9	3,738,796	930,081	4.0	\$0.018			
		2018	4,427,472	2,282,256	1.9	3,694,417	1,442,881	2.6	\$0.030			
		2019	4,466,750	2,235,636	2.0	3,728,572	1,412,534	2.6	\$0.029			
		2020	3,875,915	1,700,377	2.3	3,214,802	1,311,554	2.5	\$0.033			
		CDM Plan Total	\$26,379,786	\$12,950,822	2.0	\$22,046,811	\$6,187,310	3.6	\$0.021			
g	Plan Cost Effectiveness-Exceptions Rationale <i>Complete this section if proposed plan <u>does not</u> meet minimum Cost-Effectiveness Thresholds set out in CDM Plan Submission and Review Criteria Rules.</i>											

D. CDM Plan Detailed List of Programs, Election of Funding Mechanism, and Annual Milestones

NOTES	
1. CDM Plan	Complete Table 2 for all Programs for which will contribute towards the CDM Plan Target.
2. Program Name	Province-wide LDC Program names are found in the applicable Program Rules. Regional & local Program names should be consistent with those included in approved business cases (if applicable) and consistent throughout this CDM Plan.
3. Anticipated Annual Budget	Include annual budgets for each Program to be allocated against the CDM Plan Budget by funding mechanism. Note: LDC Eligible Expenses incurred in 2014 for programs delivered in 2015 (and not funded as part of the 2011-2014 Master CDM Program Agreement) should be included in 2015 Annual anticipated budget amounts.
4. Target Gap	Portion of the CDM Plan Target that the LDC reasonably expects, based on qualified independent third party analysis as accepted by the IESO could only be achieved with funding in addition to the CDM Plan Budget.

LDC 1: Welland Hydro-Electric System Corp.

TABLE 2. PROGRAM AND MILESTONE SCHEDULE																									
Funding Mechanism	Approved Province Wide Programs	Approved Local, Regional, or Pilot Programs	Proposed Pilots or Programs	Program Start Date (DD-Mon-YYYY)	Customer Segments Targeted by Program								Program Implementation Schedule (Annual Anticipated Budget & Incremental Annual Milestones by Program)												
													2015		2016		2017		2018		2019		2020		Total 2015 - 2020
					Residential	Low-income	Small business	Commercial (inc. Multi-F	Agricultural	Institutional	Industrial	Anticipated Annual Budget (\$)	Energy Savings (MWh)	Anticipated Annual Budget (\$)	Energy Savings (MWh)	Anticipated Annual Budget (\$)	Energy Savings (MWh)	Anticipated Annual Budget (\$)	Energy Savings (MWh)	Anticipated Annual Budget (\$)	Energy Savings (MWh)	Anticipated Annual Budget (\$)	Energy Savings (MWh)	Total CDM Plan Budget (\$)	Total Persisting Energy Savings in 2020 (MWh)
Full Cost Recovery Programs	Heating and Cooling Retrofit			1-Oct-2015	Yes		Yes	Yes	Yes	Yes	Yes	\$9,807	16.0	\$88,338	66.0	\$84,400	66.0	\$58,100	15.0	\$58,100	15.0	\$356,845	194.0		
				1-Oct-2015			Yes	Yes	Yes	Yes	Yes	\$130,157	718.0	\$573,050	2,836.0	\$571,195	2,836.0	\$571,195	2,836.0	\$557,175	2,836.0	\$2,973,967	14,898.0		
	New Construction Program			1-Oct-2015	Yes							\$125	0.0	\$2,125	2.0	\$1,750	2.0	\$1,750	2.0	\$1,000	0.0	\$1,000	0.0	\$7,750	6.0
	Home Assistance Program			1-Oct-2015		Yes						\$3,325	2.0	\$16,325	5.0	\$14,756	5.0	\$13,281	4.0	\$11,806	3.0	\$9,329	2.0	\$68,822	21.0
	High Performance New Construction			1-Oct-2015			Yes	Yes	Yes	Yes	Yes	\$1,000	0.0	\$48,436	114.0	\$45,436	114.0	\$42,936	114.0	\$42,936	114.0	\$42,936	114.0	\$223,680	570.0
	Audit Funding Program			1-Oct-2015			Yes	Yes	Yes	Yes		\$2,082	19.0	\$13,577	76.0	\$11,327	76.0	\$11,327	76.0	\$11,327	76.0	\$11,327	76.0	\$60,967	303.0
	Coupon Program			1-Oct-2015	Yes							\$2,108	9.0	\$8,431	36.0	\$8,431	36.0	\$8,431	36.0	\$8,431	36.0	\$8,431	36.0	\$44,263	189.0
			Whole Home - 18 Month Pilot	1-Jan-2016	Yes							\$0	0.0		236.0		171.0	\$0	0.0	\$0	0.0	\$0	0.0		407.0
			Whole Home - Proposed Program	1-Jul-2017	Yes							\$0	0.0	\$0	0.0		361.0		361.0		361.0		361.0		1,438.0
	Energy Manager Program			1-Oct-2015				Yes	Yes	Yes	Yes	\$25,310	50.0	\$101,238	200.0	\$101,238	200.0	\$101,238	200.0	\$101,238	200.0	\$101,238	200.0	\$531,500	1,047.0
			Unassigned Commercial Target	1-Jan-2018			Yes	Yes	Yes	Yes	Yes	\$0	0.0	\$0	0.0	\$0	0.0		191.0		191.0		191.0		573.0
	Process and Systems Upgrades Program			1-Oct-2015				Yes	Yes	Yes	Yes	\$2,000	0.0	\$81,113	483.0	\$75,113	483.0	\$75,113	483.0	\$75,113	483.0	\$11,000	0.0	\$319,452	1,932.0
	Existing Building Commissioning			1-Oct-2015				Yes	Yes	Yes	Yes														0.0
	Monitoring and Targeting Program			1-Oct-2015				Yes	Yes	Yes	Yes														0.0
										</															

E. Proposed Local and Regional Pilot CDM Programs

Notes		
Complete the following Table(s) for each proposed local and regional Program or Pilot Program in the CDM Plan for which a business case has NOT previously been approved by the IESO. Please refer to the Program Development and Rule Revision Guideline and the Business Case Template for full details on requirements and submission of a business case for approval of a local or regional Program. For the process for receiving funding for a Pilot Program, refer to the LDC Program Innovation Guideline.		

TABLE 3a. PROPOSED LOCAL AND REGIONAL CDM PROGRAMS / PILOTS			
a. Program Name	Whole Home	Use same "Program name" included in other worksheets	
b. Program Type	Proposed Pilot		
b. Estimated Business Case Submission Date (DD-Mon-YYYY)	1-Sep-2015		
c. Customer Segment(s) Served by Programs	Residential		
d. Participating LDCs (if applicable)	Other		
e. Overview of Proposed Program or Pilot	Our proposed program concept, if approved, would be the first and only whole home initiative available in Ontario. The program would provide residential consumers with choice, flexibility, and a "one-stop shop" when it comes to conservation. At a high level, our program concept is an updated and enhanced version of the highly successful Federal and Provincial government's now-expired ecoENERGY Home Retrofit initiative. In our opinion, the ecoENERGY initiative was perfect for residential consumers as it encompassed almost every measure around one's home that involved, or affected, energy usage. Similar to the ecoENERGY initiative, our concept would incent participants for undertaking		
	Provide overview of key objectives and elements of proposed program or pilot.		

TABLE 3c. PROPOSED LOCAL AND REGIONAL CDM PROGRAMS / PILOTS			
a. Program Name		Use same "Program name" included in other worksheets	
b. Program Type			
b. Estimated Business Case Submission Date (DD-Mon-YYYY)			
c. Customer Segment(s) Served by Programs			
d. Participating LDCs (if applicable)			
e. Overview of Proposed Program or Pilot			
	Provide overview of key objectives and elements of proposed program or pilot.		

TABLE 3e. PROPOSED LOCAL AND REGIONAL CDM PROGRAMS / PILOTS			
a. Program Name		Use same "Program name" included in other worksheets	
b. Program Type			
b. Estimated Business Case Submission Date (DD-Mon-YYYY)			
c. Customer Segment(s) Served by Programs			
d. Participating LDCs (if applicable)			
e. Overview of Proposed Program or Pilot			
	Provide overview of key objectives and elements of proposed program or pilot.		

TABLE 3g. PROPOSED LOCAL AND REGIONAL CDM PROGRAMS / PILOTS			
a. Program Name		Use same "Program name" included in other worksheets	
b. Program Type			
b. Estimated Business Case Submission Date (DD-Mon-YYYY)			
c. Customer Segment(s) Served by Programs			
d. Participating LDCs (if applicable)			
e. Overview of Proposed Program or Pilot			
	Provide overview of key objectives and elements of proposed program or pilot.		

TABLE 3b. PROPOSED LOCAL AND REGIONAL CDM PROGRAMS / PILOTS			
a. Program Name		Use same "Program name" included in other worksheets	
b. Program Type			
b. Estimated Business Case Submission Date (DD-Mon-YYYY)			
c. Customer Segment(s) Served by Programs			
d. Participating LDCs (if applicable)			
e. Overview of Proposed Program or Pilot			
	Provide overview of key objectives and elements of proposed program or pilot.		

TABLE 3d. PROPOSED LOCAL AND REGIONAL CDM PROGRAMS / PILOTS			
a. Program Name		Use same "Program name" included in other worksheets	
b. Program Type			
b. Estimated Business Case Submission Date (DD-Mon-YYYY)			
c. Customer Segment(s) Served by Programs			
d. Participating LDCs (if applicable)			
e. Overview of Proposed Program or Pilot			
	Provide overview of key objectives and elements of proposed program or pilot.		

TABLE 3f. PROPOSED LOCAL AND REGIONAL CDM PROGRAMS / PILOTS			
a. Program Name		Use same "Program name" included in other worksheets	
b. Program Type			
b. Estimated Business Case Submission Date (DD-Mon-YYYY)			
c. Customer Segment(s) Served by Programs			
d. Participating LDCs (if applicable)			
e. Overview of Proposed Program or Pilot			
	Provide overview of key objectives and elements of proposed program or pilot.		

TABLE 3h. PROPOSED LOCAL AND REGIONAL CDM PROGRAMS / PILOTS			
a. Program Name		Use same "Program name" included in other worksheets	
b. Program Type			
b. Estimated Business Case Submission Date (DD-Mon-YYYY)			
c. Customer Segment(s) Served by Programs			
d. Participating LDCs (if applicable)			
e. Overview of Proposed Program or Pilot			
	Provide overview of key objectives and elements of proposed program or pilot.		

F. Detailed Information on Collaboration and Regional Planning

ADDITIONAL DETAILED INFORMATION	
Regional LDC(s) Collaboration <i>Description of how the LDC(s) will collaborate with other LDCs. If collaboration will not occur, description of why it will not occur.</i>	Welland Hydro-Electric System Corp. has been collaborating with other LDCs on many activities since 2010 in order to find efficiencies and ensure rate payer funding is being used responsibly. We will continue to do so under the new framework. Some of the continuing collaboration activities include shared marketing, shared services through various third party service providers, joint CDM events, and possible inclusion in future phases of our proposed Whole Home pilot.
Gas Collaboration <i>Description of how the LDC(s) will collaborate with other gas utility programs delivered in service area (if applicable). If collaboration will not occur, description of why it will not occur.</i>	Possible collaboration with Enbridge Gas (for gas savings) and our Municipality (for water savings) through the proposed Whole Home pilot.
CDM Contribution to Regional Planning <i>Description of how the CDM Plan considers the electricity needs and investments identified in other plans or planned initiatives, completed or underway within the LDC(s)' service area or region. This may include Integrated Regional Resource Plans or Municipal Community Energy Plans.</i>	At the time of this plan's submission, we have not been approached to be part of any sort of Integrated Regional Resource Plan (IRRP) for the Niagara Region. However, if we eventually do become involved in an IRRP for the Niagara Region, we acknowledge that we will strive to align our CDM plan and any commitments required as part of an IRRP for the Niagara Region. Staff members that potentially could be made available to support the development of an IRRP for the Niagara Region are Jason Biesma and/or Sylvia Koren.

G. Additional Documentation for CDM Plan (If applicable)

ADDITIONAL INFORMATION AND DOCUMENTATION	
Programs <i>Opportunity to provide any additional information on assumptions used for budgets and/or savings for approved 2015-2020 province-wide programs</i>	
Approved Local and/or Regional Programs and Pilot Programs <i>Opportunity to provide any additional information on assumptions used for budgets and/or savings for approved 2015-2020 local or regional programs or pilot programs</i>	
Proposed Local and/or Regional Programs and Pilot Programs <i>Opportunity to provide additional information on assumptions used for forecast budgets and/or savings for proposed programs or pilot programs</i>	
Programs from 2011-2014/2015 CDM Framework <i>Opportunity to provide any additional information on assumptions used for budgets and/or savings from existing 2011-2014/2015 CDM Programs</i>	
Programs funded through Pay-for-Performance <i>Opportunity to provide any additional information on assumptions used for budgets and/or savings for Pay for Performance Programs</i>	
Other <i>Additional assumptions used in the CDM Plan</i>	

Summary of Changes to CDM Template

Version No.	Date	Tab	Change Summary
2	20-Jan-15	A. General Information	Inclusion of "Company Name" for Primary Contact
			Inclusion of frequency of invoicing (monthly vs. quarterly)
			Update date format to eliminate confusion
			Change reference to OPA
			Additional LDCs for joint plan
		B. LDC Authorization	Update date format to eliminate confusion
		D. CDM Plan Milestone LDC 1-10	Additional line items for FRC program names
			Additional LDCs for joint plan
			Update on the program names
			Update date format to eliminate confusion
			Update column headers: - "Province Wide Program Name" - "Proposed Regional or Local CDM Program or Pilot Program Name"
			Change reference to OPA
			Update Header and Footer
		E.. Proposed Program&Pilots	Additional boxes for proposed programs
			Update date format to eliminate confusion
		O. Detailed Information	Clarity if it is primary LDC or all LDCs in a joint CDM Plan.

