

Monitoring Report Smart Meter Deployment and TOU Pricing – April 2012

June 14, 2012

This report summarizes the activities by licensed distribution companies with respect to the implementation of smart meters and time-of-use (TOU) pricing for Regulated Price Plan (RPP) consumers during the period April 1, 2012 through April 30, 2012.

- As of April 30, 2012 there were 4,758,472 installed smart meters, 4,360,354 meters enrolled with the MDM/R (6,034 added in April) and 4,095,614 customers on TOU billing (158,942 added in April).
- That is, as of April 30, 2012 99% of RPP eligible consumers have a smart meter installed, 91% have a smart meter that is enrolled with the MDM/R and 85% are on TOU pricing.
- In its monthly report, the SME states that it is confident “the MDM/R will continue to offer a stable system and effectively support LDCs time-of-use implementation plans and ramp up of meters to full provincial volumes.”

Background

On August 4, 2010 the Board issued a determination that set mandatory dates by which distributors must complete the implementation of time-of-use (TOU) billing. The Board’s determination requires that a distributor commence TOU billing of consumers with the first billing cycle following the mandatory date, this recognizes that distributors may implement TOU billing as a practical matter with the first bill to a consumer after the mandatory date. There are three important activities that a distributor must undertake to implement TOU pricing. These three activities are meter installation, smart meter enrolment with the MDM/R (Meter Data Management Repository), and activation of TOU pricing no later than the first billing cycle following a distributor’s mandatory TOU date.

In order to monitor progress towards meeting the requirements of the determination, the Board is requiring distributors to submit monthly progress reports. Further, the Board is also requiring the Smart Meter Entity (SME) to submit monthly reports regarding its status and readiness in supporting the implementation of TOU billing.

The remainder of this report provides a summary of the activities undertaken by licensed distribution companies and the SME reflecting the mandatory TOU implementation requirements as April 30, 2012.

Distributor Summary

- As of April 30, 2012 there were 4,758,472 installed smart meters, 4,360,354 meters enrolled with the MDM/R and 4,095,614 customers on TOU billing.
- As of April 30, 2012, 65 distributors (up from 64 in March 2012) were billing some or all of their customers TOU prices. A list of these distributors is below. 45 distributors have completed TOU implementation and are no longer submitting monthly progress reports.
- Due to the upgrade of the MDM/R to R7.2 the following distributors reported to the Board that they missed their TOU dates of December 2011, January or February 2012: Bluewater Power Distribution, Cambridge and North Dumfries Hydro Inc., Canadian Niagara Power, Eastern Ontario Power Inc., Greater Sudbury Hydro, Grimsby Power Inc., Port Colborne Hydro Inc., Peterborough Distribution Inc., Rideau St. Lawrence Distribution and Westario Power Inc.
 - Since these distributors are prepared internally for TOU implementation and were delayed solely due to factors beyond their control the Board does not require them to file applications for extensions.
 - As will be discussed below, R7.2 was deployed at the beginning of April. Bluewater Power Distribution has since commenced TOU billing; Board staff is monitoring Cambridge and North Dumfries Hydro Inc., Canadian Niagara Power, Eastern Ontario Power Inc., Greater Sudbury Hydro, Grimsby Power Inc., Port Colborne Hydro Inc., Peterborough Distribution Inc., Rideau St. Lawrence Distribution and Westario Power Inc..
- A total of 31 distributors (representing 935,576 customers) have received an extension from the Board on their mandatory TOU date.
- A total of 11 distributors received partial exemptions for limited numbers of their RPP eligible customers based on technical and/or operational reasons.
- Of the 42 distributors granted full or partial extensions by the Board, 21 have now completed the transition to TOU. A list of these distributors is below.

Smart Meter Entity (SME) Summary

In its monthly report, the SME states that it “remains confident that with ongoing tuning, planned infrastructure improvements and collaborative support of LDCs, the MDM/R will continue to offer a stable system and effectively support LDCs time-of-use implementation plans and ramp up of meters to full provincial volumes.”

- With regards to the Measurement Canada 2011 Solution, EnergyIP Release 7.2 was promoted to the MDM/R production environment April 13-15, 2012.
 - The SME states “(w)ith the stabilization period complete, LDCs have started to transition to the new billing quantity interface that will deliver register readings for inclusion on customer TOU bills . . . (t)o date, 26 LDCs are in the process of making the MDM/R transition that will enable them to receive register readings for billing.”
- Board staff is closely monitoring progress through regular communication with the SME.

Distributor Progress in Implementation

	Previous Total	Added This Period	Current Total	Percent of RPP Eligible Consumers as of April 30, 2012
Smart Meters Installed	4,762,459	-3,987 ¹	4,758,472	99%
Smart Meters Enrolled with MDM/R	4,354,320	6,034	4,360,354	91%
Customers on TOU Billing	3,936,672	158,942	4,095,614	85%

Distributor Progress in MDM/R Enrolment

	Previous Total	Added this Period	Current Total
LDCs in Enrolment Testing	2	-1	1
LDCs in Production (completed enrolment testing)	70	0	70

¹ The number of smart meters installed appears to have declined in April because Middlesex Power Distribution Corporation's installed meters were inadvertently 'double counted' in March. This was due to the merging of Middlesex Power Distribution's reports with Chatham-Kent Hydro Inc. (together now called 'Entegrus Powerlines Inc').

Distributors in the Process of Transitioning Customers to TOU Billing

	Distributor	RPP-Eligible Customers	Customers on TOU Billing	% of Customers on TOU Billing
1	Bluewater Power Distribution Corporation	35,417	10	0.03%
2	E.L.K. Energy Inc.	10,834	10,176	93.93%
3	Enersource Hydro Mississauga Inc.	192,337	124,159	64.55%
4	Guelph Hydro Electric Systems Inc.	48,044	45,877	95.49%
5	Hydro One Networks Inc.	1,203,401	1,056,671	87.81%
6	Hydro Ottawa Limited	303,018	272,384	89.89%
7	Lakefront Utilities Inc.	9,592	9,543	99.49%
8	London Hydro Inc.	145,894	145,894	100.00%
9	Niagara Peninsula Energy Inc.	49,871	43,085	86.39%
10	Norfolk Power Distribution Inc.	18,858	16,518	87.59%
11	North Bay Hydro Distribution Limited	23,627	21,965	92.97%
12	Oakville Hydro Electricity Distribution Inc.	62,981	59,162	93.94%
13	PUC Distribution Inc.	32,623	32,407	99.34%
14	Peterborough Distribution Incorporated	35,084	182	0.52%
15	Toronto Hydro-Electric System Limited	701,329	652,428	93.03%
16	Wasaga Distribution Inc.	12,332	12,018	97.45%
17	Welland Hydro-Electric System Corp.	21,778	21,620	99.27%
18	West Coast Huron Energy Inc.	3,666	3,656	99.73%

**Distributors who have Completed Transition to TOU Billing
& are no longer Required to Submit Monthly Reports**

	Distributor	Customers on TOU Billing
1	Atikokan Hydro Inc.	1,666
2	Brant County Power Inc.	9,104
3	Brantford Power Inc.	35,835
4	Burlington Hydro Inc.	63,932
5	COLLUS Power Corporation	15,682
6	Centre Wellington Hydro Ltd.	6,516
7	Chapleau Public Utilities Corporation	1,272
8	Cooperative Hydro Embrun Inc.	1,835
9	Entegrus Powerlines Inc. ²	39,705
10	Erie Thames Powerlines Corporation	17,861
11	Espanola Regional Hydro Distribution Corporation	3,235
12	Essex Powerlines Corporation	27,857
13	Fort Frances Power Corporation	3,732
14	Haldimand County Hydro Inc.	20,846
15	Halton Hills Hydro Inc.	20,643
16	Hearst Power Distribution Company Limited	2,390
17	Horizon Utilities Corporation	229,298
18	Hydro 2000 Inc.	1,197
19	Hydro Hawkesbury Inc.	5,350
20	Hydro One Brampton Networks Inc.	133,642
21	Innisfil Hydro Distribution Systems Limited	14,415
22	Kenora Hydro Electric Corporation Ltd.	5,507
23	Kingston Hydro Corporation	26,365
24	Kitchener-Wilmot Hydro Inc.	87,349
25	Lakeland Power Distribution Ltd.	9,583
26	Midland Power Utility Corporation	6,833
27	Milton Hydro	27,971

² Middlesex Power Distribution and Chatham-Kent Hydro Inc. merged and are now called Entegrus Powerlines Inc.

	Distributor	Customers on TOU Billing
28	Newmarket - Tay Power Distribution Ltd.	32,288
29	Niagara-on-the-Lake Hydro Inc.	7,949
30	Northern Ontario Wires Inc.	5,908
31	Orangeville Hydro Limited	11,111
32	Orillia Power Distribution Corporation	12,814
33	Oshawa PUC Networks Inc.	52,259
34	Ottawa River Power Corporation	10,345
35	Parry Sound Power Corporation	3,315
36	PowerStream Inc.	313,581
37	Renfrew Hydro Inc.	3,872
38	Sioux Lookout Hydro Inc.	2,583
39	St. Thomas Energy Inc.	16,238
40	Thunder Bay Hydro Electricity Distribution Inc.	49,155
41	Tillsonburg Hydro Inc.	6,321
42	Veridian Connections Inc.	111,011
43	Waterloo North Hydro Inc.	51,125
44	Wellington North Power Inc.	3,546
45	Whitby Hydro Electric Corporation	39,825
46	Woodstock Hydro Services Inc.	14,992

Approved Applications for Extensions (full and partial)

	Distributor	Original Mandatory TOU Date	New Mandatory TOU Date	Number of RPP Eligible Customers Affected
Transition to TOU in Progress	Algoma Power Inc.*	Jun-11	Jul-12	11,551
	Cambridge and North Dumfries Hydro	Oct-11	Feb-12	50,295
	Canadian Niagara Power Inc. *	Dec-11	Jan-12	15,517
	Eastern Ontario Power Inc.*	Feb-12	Feb-12	3,494
	EnWin Utilities Ltd.	Jun-11	Dec-12	83,727
	Enersource Hydro Mississauga Inc.	Jun-11	May-12	188,787
	Festival Hydro Inc.	Sep-11	May-12	19,335
	Greater Sudbury Hydro Inc.	Jun-11	Dec-11	46,040
	Grimsby Power Inc.*	Sep-11	Dec-11	10,052
	Guelph Hydro Electric Systems Inc. (partial) ³	Jun-11	May-12	1,750
		Jun-11	Aug-12	2,482
	Hydro One Networks Inc. (partial)	Jun-11	Est. late 2012	150,000
	London Hydro Inc.	Jun-11	May-12	140,499
	Oakville Hydro Electricity Distribution (partial)	Jul-11	Mar-12	4,586
	Port Colborne Hydro Inc.*	Dec-11	Jan-12	9,060
	PUC Distribution Inc.	Oct-11	Mar-12	1,181
	Wasaga Distribution Inc.	Jun-11	Nov-11	12,020
	Westario Power Inc.*	Sep-11	Dec-11	21,747
	Welland Hydro-Electric System Corp.	Sep-11	Jan-12	21,776
West Coast Huron Energy Inc.	Aug-11	Jan-12	3,822	

* Algoma Power Inc., Canadian Niagara Power: Fort Erie, Eastern Ontario Power, and Port Colborne are all owned by FortisOntario. These distributors are working in association with Grimsby and Westario Power and jointly filed an application for extension.

³ In separate applications Guelph Hydro requested and was granted partial extensions for two different groups of customers each group having different reasons for needing an extension.

	Distributor	Original Mandatory TOU Date	New Mandatory TOU Date	Number of RPP Eligible Customers Affected
Transition to TOU Complete	Bluewater Power Distribution	Oct-11	Jan-12	35,259
	Brantford Power Inc.	Jul-11	Nov-11	37,286
	Burlington Hydro Inc.	Jul-11	Jan-12	63,424
	COLLUS Power Corp.	Jul-11	Dec-11	15,465
	Cooperative Hydro Embrun Inc.**	Jun-11	Jan-12	1,780
	Essex Powerlines Corp.	Jun-11	Dec-11	27,850
	Espanola Regional Hydro Distribution Corp. (partial)	Oct-11	Mar-12	99
	Haldimand County Hydro Inc. (partial)	Sep-11	Jan-12	456
	Hydro 2000 Inc.**	Oct-11	Jan-12	1,187
	Kitchener-Wilmot Hydro Inc. (partial)	Jun-11	Jan-12	6,600
	Kingston Hydro Corp.	Jun-11	Oct-11	26,557
	Newmarket-Tay Power Distribution (partial)	Jun-11	Nov-11	2,584
	Orangeville Hydro Ltd.	Jun-11	Sep-11	11,031
	Orillia Power Distribution Corp. (partial)	Jun-11	Nov-11	800
	Ottawa River Power Corp.**	Oct-11	Jan-12	10,301
	Renfrew Hydro Inc.**	Jun-11	Oct-11	3,748
	Tillsonburg Hydro Inc.	Jun-11	Jan-12	6,643
	Thunder Bay Hydro Electricity	Jun-11	Aug-11	49,014
	Veridian Connections Inc. (partial)	Jun-11	Dec-11	7,821
	Waterloo North Hydro Inc.	Jun-11	Jan-12	2,957
Wellington North Power Inc.	Jun-11	Jan-12	3,572	

** Cooperative Hydro Embrun, Hydro 2000, Ottawa River Power and Renfrew Hydro are working together to implementing TOU billing and filed a joint application for an extension. This was Cooperative Hydro Embrun's second extension application. Cooperative Hydro Embrun had previously applied for, and was granted, an extension from their original date of June 2011 to October 2011 (to align with Ottawa River Power's original TOU date).