

Monitoring Report Smart Meter Deployment and TOU Pricing – May 2012

August 1, 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 May 1, 2012 through May 31, 2012.

- As of May 31, 2012 there were 4,761,100 installed smart meters, 4,406,781 meters enrolled with the MDM/R (46,421 added in May) and 4,180,297 customers on TOU billing (84,683 added in May).
- That is, as of May 31, 2012 99% of RPP eligible consumers have a smart meter installed, 92% have a smart meter that is enrolled with the MDM/R and 87% are on TOU pricing.
- In its monthly report, the SME states that it “continues to effectively support distributor enrolment and the implementation of TOU billing under the Board’s TOU mandate.”

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 May 31, 2012.

Distributor Summary

- As of May 31, 2012 there were 4,761,100 installed smart meters, 4,406,781 meters enrolled with the MDM/R and 4,180,297 customers on TOU billing
- As of May 31, 2012, 70 distributors (up from 65 in April 2012) were billing some or all of their customers TOU prices. A list of these distributors is below. 51 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 were prepared internally for TOU implementation and were delayed solely due to factors beyond their control they were not required to file applications for extensions.
 - As will be discussed below, R7.2 was deployed at the beginning of April. Bluewater Power Distribution, Canadian Niagara Power, Port Colborne Hydro Inc., Rideau St. Lawrence Distribution have since commenced TOU billing; Board staff is monitoring Cambridge and North Dumfries Hydro Inc., Eastern Ontario Power Inc., Greater Sudbury Hydro, Grimsby Power Inc., Peterborough Distribution Inc.¹, and Westario Power Inc..
- In a letter to Board staff, EnWin Utilities Ltd. indicated it “will not be in a position to select a replacement CIS, implement that CIS and roll-out TOU by December 1, 2012. What is not yet clear is the date by which EnWin will be in a position to roll-out TOU commodity rates to all of its ratepayers. That date is dependent upon the outcome of the CIS procurement process, which has not yet concluded. Once the replacement CIS is selected and the implementation timeline is known, EnWin intends to prepare and file an application for a further temporary exemption from Mandatory TOU with all due haste and, in any event, in advance of the expiry of its current exemption.”

¹ Peterborough Distribution does have some customers on TOU but this is from a pilot project pre-dating mandatory implementation and these customers are not being billed through the MDM/R as required; Peterborough Distribution has not yet begun implementing TOU billing via MDM/R for its customers.

- 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, 25 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 that as of May 31, 2012 “27 LDCs have transitioned to the interface to enable them to receive register reads for billing. Based on information submitted by LDCs, we expect to have over 50 LDCs enabled to receive register reads for billing by the end of July 2012.”
 - Further, they note “as LDCs operate their business processes with Release 7.2 and the new billing interface, the IESO is helping LDCs with their transition by responding to issues that they raise. We expect the number of reported issues to diminish once LDCs complete a full billing cycle under the new software.”
- 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 May 31, 2012
Smart Meters Installed	4,758,472	2,628	4,761,100	99%
Smart Meters Enrolled with MDM/R	4,360,354	46,421	4,406,781	92%
Customers on TOU Billing	4,095,614	84,683	4,180,297	87%

Distributor Progress in MDM/R Enrolment

	Previous Total	Added this Period	Current Total
LDCs in Enrolment Testing	1	-1 ²	0
LDCs in Production (completed enrolment testing)	70	1	71

² -1 is indicated here because one LDC completed enrolment testing but no new LDC commenced testing meaning there is one less LDC in testing than in the previous period.

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	35,437	3,801	10.73%
2	Canadian Niagara Power Inc.	15,602	10	0.06%
3	E.L.K. Energy Inc.	10,840	10,161	93.74%
4	Enersource Hydro Mississauga Inc.	192,399	165,314	85.92%
5	Festival Hydro Inc.	19,335	19,148	99.03%
6	Grimsby Power Incorporated	10,312	9,311	90.29%
7	Guelph Hydro Electric Systems Inc.	48,044	47,725	99.34%
8	Hydro One Networks Inc.	1,205,381	1,057,147	87.70%
9	Hydro Ottawa Limited	303,514	274,688	90.50%
10	Lakefront Utilities Inc.	9,595	9,563	99.67%
11	Niagara Peninsula Energy Inc.	49,882	43,067	86.34%
12	Norfolk Power Distribution Inc.	18,868	17,358	92.00%
13	North Bay Hydro Distribution Limited	23,627	21,984	93.05%
14	Oakville Hydro Electricity Distribution Inc.	63,002	59,221	94.00%
15	Peterborough Distribution Incorporated	35,098	182	0.52%
16	Port Colborne Hydro Inc.	9,060	2	0.02%
17	Rideau St. Lawrence Distribution Inc.	5,775	3,866	66.94%
18	Toronto Hydro-Electric System Limited	702,236	654,252	93.17%
19	Wasaga Distribution Inc.	12,376	12,061	97.45%

**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.	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	London Hydro Inc.	145,894
27	Midland Power Utility Corporation	6,833
28	Milton Hydro	27,971

	Distributor	Customers on TOU Billing
29	Newmarket - Tay Power Distribution Ltd.	32,288
30	Niagara-on-the-Lake Hydro Inc.	7,949
31	Northern Ontario Wires Inc.	5,908
32	Orangeville Hydro Limited	11,111
33	Orillia Power Distribution Corporation	12,814
34	Oshawa PUC Networks Inc.	52,259
35	Ottawa River Power Corporation	10,345
36	PUC Distribution Inc.	32,407
37	Parry Sound Power Corporation	3,315
38	PowerStream Inc.	313,581
39	Renfrew Hydro Inc.	3,872
40	Sioux Lookout Hydro Inc.	2,583
41	St. Thomas Energy Inc.	16,238
42	Thunder Bay Hydro Electricity Distribution Inc.	49,155
43	Tillsonburg Hydro Inc.	6,321
44	Veridian Connections Inc.	111,011
45	Waterloo North Hydro Inc.	51,125
46	Welland Hydro-Electric System Corp.	21,620
47	Wellington North Power Inc.	3,546
48	West Coast Huron Energy Inc.	3,656
49	Whitby Hydro Electric Corporation	39,825
50	Woodstock Hydro Services Inc.	14,992
51	Woodstock Hydro Services Inc.	14,992

Approved Applications for Extensions (full and partial)

Transition to TOU in Progress

Distributor	Original Mandatory TOU Date	New Mandatory TOU Date	Number of RPP Eligible Customers Affected ³
Algoma Power Inc.*	Jun-11	Jul-12	11,551
Bluewater Power Distribution	Oct-11	Jan-12	35,259
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) ⁴	Jun-11	May-12	1,750
	Jun-11	Aug-12	2,482
Hydro One Networks Inc. (partial)	Jun-11	Est. late 2012	150,000
Oakville Hydro Electricity Distribution (partial)	Jul-11	Mar-12	4,586
Port Colborne Hydro Inc.*	Dec-11	Jan-12	9,060
Wasaga Distribution Inc.	Jun-11	Nov-11	12,020
Westario Power Inc.*	Sep-11	Dec-11	21,747

³ This column reflects the number of RRP eligible customers affected *at the time the application was submitted* to the Board. Due to customer growth/fluctuation over time, this figure may differ slightly from each LDCs *current* number of RPP eligible customers noted elsewhere in this report.

* 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.

⁴ 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.

Approved Applications for Extensions (full and partial)

Transition to TOU Complete

Distributor	Original Mandatory TOU Date	New Mandatory TOU Date	Number of RPP Eligible Customers Affected
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
London Hydro Inc.	Jun-11	May-12	140,499
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
PUC Distribution Inc.	Oct-11	Mar-12	1,181
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

** 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).

Distributor	Original Mandatory TOU Date	New Mandatory TOU Date	Number of RPP Eligible Customers Affected
Waterloo North Hydro Inc.	Jun-11	Jan-12	2,957
Welland Hydro-Electric System Corp.	Sep-11	Jan-12	21,776
Wellington North Power Inc.	Jun-11	Jan-12	3,572
West Coast Huron Energy Inc.	Aug-11	Jan-12	3,822