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REPORT

**Smart Metering Entity (SME)
Time-of-Use Mandate Progress Report
Through May 31, 2013**

Issue 34.0 - June 21, 2013

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1. Introduction

1.1 Purpose

The purpose of this report is to provide a monthly update to the Ontario Energy Board on the Smart Metering Entity's readiness and performance and the progress in respect to distributor integration with the Meter Data Management and Repository (MDM/R). This report includes information and status updates on:

- The Smart Metering Entity (SME) and the MDM/R Readiness - Any issues relevant to the ability of the SME and the MDM/R to support MDM/R enrolment and TOU implementation, such as resourcing, software operation, and processing performance.
- Distributor (LDC¹) Readiness – Integrating with the MDM/R is a prerequisite to enable LDCs to execute their individual TOU rollout strategies and contribute to Ontario's provincial targets for total customers on time-of-use (TOU) rates. This report includes information regarding LDC progress against their project plans, testing activities and MDM/R enrolment activities both achieved and projected.

1.2 How to Use this Document

This report presents information and status updates on SME and MDM/R readiness (in Section 2), distributor readiness, and MDM/R enrolment progress (in Section 3). This report focuses on updates through the end of the indicated month. However, in the area of MDM/R readiness (Section 2), important updates that occurred between the end of the reporting month and the date the report is submitted to the OEB will also be reported. More information about the provincial Smart Metering Initiative, the MDM/R and the implementation of Time-of-Use rates is available on the websites of the Ministry of Energy (<http://www.mei.gov.on.ca/>), the Ontario Energy Board (<http://www.oeb.gov.on.ca/OEB/Industry>) and the IESO/SME (<http://www.smi-ieso.ca/>).

SME and MDM/R readiness will include updates on implementation and testing for new MDM/R software, processing performance, status of resourcing and training programs, and any other issues that may affect the implementation of mandatory TOU.

Distributor readiness and MDM/R enrolment progress will be communicated using a series of tables; some summarizing aggregate results and others detailing by individual LDC. The tables provided in the report are:

- MDM/R Cutover Targets
- MDM/R Enrolled Meter Counts by Distributor
- MDM/R Enrolment Wave Calendar (2013)

Each table is accompanied by a description of its contents and how to interpret it. The information contained in two of the tables is interrelated and these relationships are described below.

¹ LDCs in Ontario (meaning each Local Distribution Company or "distributor" as defined in the Ontario Energy Board Act, 1998)

- The MDM/R Enrolment Wave Calendar contains detailed schedules for the planned enrolment testing and cutover to production that each LDC has provided to the SME. The Wave Calendar includes updates received from LDCs verbally and through project plan submissions. If an LDC's self-certification for enrolment testing has been accepted by the SME, this is also indicated on the MDM/R Enrolment Wave Calendar. Verbally provided milestone information, while shown in the calendar, is not included in any of the other tables. The information in the MDM/R Enrolment Wave Calendar can be further refined based on the SME's assessment of an organisation's readiness. The basis for such refinements can include our interactions with the LDC's project team, along with observed levels of testing activity in the MDM/R testing environments.
- MDM/R Cutover Targets uses the actual number of LDCs enrolled in the MDM/R production environment and the number of meters that they have each enrolled at the end of each month. It projects forward the number of LDCs that will be enrolled in subsequent time periods based on the MDM/R Enrolment Wave Calendar.

2. SME and MDM/R Readiness – Relevant Issues

2.1 MDM/R Operation and Software Testing

The Smart Metering Entity (SME) has completed the enrolment of 71 of 72 distributors and their eligible meters under the Board's TOU mandate. The enrolment and transition of remaining customers to TOU billing is subject to the Board's regulatory and exemption processes.

The MDM/R production environment remains stable and reliable, and the SME continues to address LDC support and service requests in a timely manner.

The MDM/R continues to offer a stable, centralized system that effectively supports LDCs with their time-of-use billing. The SME is working with LDCs as they transition to the billing quantity interface that enables them to comply with Measurement Canada's requirements by including register readings on customer's time-of-use bills.

2.2 Processing Performance

At the end of May, the MDM/R was supporting 71 LDCs with a total of 4.6 million enrolled smart meters. In May, the MDM/R processed an average of 8.5% more interval data daily, due to the poor quality of data submitted by some LDCs and their respective AMI agents, which resulted in temporary data estimations as well as the reprocessing of duplicate data submissions.

In May, the MDM/R processed 100% of meter reads, 100% of meter master data updates, and 99.9% of billing quantities within contracted service level time lines.

The SME continues to proactively work with LDCs and their metering providers directly to manage the quality and timing of meter read data submissions to the MDM/R.

2.3 Resourcing

The SME continues to make resources available to LDCs in support of their time-of-use implementation plans and transition to the interface and measurement profiles required for LDCs to receive and present register reads on electricity bills. There were no significant resource changes in May.

2.4 Training

Advanced Graphical User Interface training sessions for LDCs are scheduled between June and December 2013. This interface training program for LDCs has been developed to provide LDCs with a variety of scenarios for investigation and exploration stemming from meter read data submission, synchronization and billing exceptions. For the complete 2013 training schedule, please consult the SME website.

2.5 Additional Risks and Issues

SME INITIATIVES

Transitioning of LDCs to Enable their Receipt of Cumulative Register Reads from the MDM/R for Inclusion on TOU Bills to Customers

LDCs are responsible for the inclusion of cumulative register reads on customer's TOU bills by making necessary changes to their own systems, business processes, and by conducting their own tests before transitioning.

By the end of May, 69 LDCs have transitioned to the MDM/R interface enabling them to receive register reads for billing and support their compliance with Measurement Canada requirements. The SME is working with the last production LDC to obtain and confirm a transition schedule, one LDC is currently in enrollment, and the other has been provided an exemption by the OEB.

Measurement Canada 2012 Phase 2

The MC 2012 Phase 2 solution provides additional quality indicators for estimated and calculated register reads and the ability to designate externally submitted register reads as estimated. It also allows LDCs to use the MDM/R for billing based on hourly and periodic consumption in order to further support Measurement Canada requirements.

Phase 2 of the Measurement Canada 2012 solution includes the following components :

- Calculative reads equality adjustment (periodic and hourly) and related measurement profiles;
- Additional quality indicators for externally estimated and calculated register reads using estimated intervals; and
- Extension of the Trilliant meter readings interface for estimated register reads.

This software is expected to be made available for LDC testing in early 2014 and be deployed to production in the first or second quarter of 2014; following the refresh of the MDM/R computing infrastructure and testing by LDCs.

MDM/R Data Access

The provincial Meter Data Management and Repository (MDM/R) was procured and implemented in support of the Ministry of Energy's specifications established in 2006. Specifications were focused on the implementation of time-of-use billing, support for LDC metering operations and requirements to provide data access to LDCs and authorized third parties, such as Retailers and the OPA.

The SME is engaged in providing support to the Ministry's initiatives for improving access to electricity data stored in the MDM/R and deriving additional value from that data. Some of those initiatives include:

- The Ministry's 'Green Button Initiative' launched on November 21, 2012 with the objective to provide electricity consumers with greater access to information about their energy consumption, and encourage the creation of new innovative tools for consumers to help conserve energy and save on electricity costs.
- The Ministry's MDM/R Road Map initiative launched in March 2013 to identify opportunities to derive additional value from the investments already made in the Province's smart metering infrastructure and the MDM/R.

- In accordance with a Ministry Directive, on February 11, 2013, the OEB's Supplemental Report on Smart Grid stated that "The Smart Metering Entity (SME) must investigate opportunities for providing access to depersonalized, generic data to third parties for planning, research, and customer benchmarking purposes (e.g., allowing customers to compare their consumption with that of their neighbours)."

Many LDCs are accessing the data in ways that were not originally anticipated which further increases the level of access requests. The volume of these requests continues to increase to support the needs of authorized interested parties and those customers authorizing multiple third party service providers access to their data.

The SME initiated a project to define the requirements, architecture and plans for the development of a data access platform to support the current and anticipated data request volumes, along with the evolving needs for data access.

The SME continues to work with the Ministry, LDCs, OEB, OPA, the Privacy Commissioner of Ontario, and other stakeholders as needed, to ensure that synergies and cost efficiencies are realized as other projects are initiated within those organizations that intersect with this project.

3. Distributor Readiness – MDM/R Integration and Meter Enrolment

3.1 May Highlights

By the end of May there were 71 LDCs in production with 4.6 million meters enrolled in the MDM/R. The remaining LDC is currently engaged in Unit Testing, and onsite training was completed on June 11, 2013. This LDC is on target with their submitted project plan and will begin integration testing with the MDM/R in the third and fourth quarters of 2013 with cutover to production expected in the fourth quarter of 2013.

3.2 MDM/R Cutover Targets²

The MDM/R Cutover Targets table provides both actual and projected numbers of LDCs that have been or are to be cutover to MDM/R production operations in each calendar quarter.

For information on which specific LDCs are included in the *Production LDCs* column for each time period refer to the MDM/R Enrolment Wave Calendar.

The *RPP Eligible Customers* column contains the aggregate total for all the LDCs included in the *Production LDCs* column. LDC filings with the OEB include their total RPP eligible customers and these figures form the basis for the aggregated figures reported in this table.

The *Enrolled in MDMR* column contains the aggregate total number of smart meters for those LDCs that are included in the *Production LDCs* column. It is included in this table to track the ramp-up of enrolled meters after the LDCs complete their cutover to MDM/R production operations. The source of these figures is the LDC filings with the OEB.

The % complete figure at the bottom of the table indicates the percentage of the total RPP eligible customers enrolled in the MDM/R as of the reporting date.

² As of January 2012, distributors who have implemented TOU for over 98% of their RPP eligible customers are no longer required to report monthly the number of meters enrolled in the MDM/R to the OEB. For a distributor that has met its TOU targets and is no longer reporting to the OEB, their number of meters enrolled will be based on data taken directly from the MDM/R. Additionally, for these LDCs:

- If the number of meters enrolled in the MDM/R exceeds their last OEB reported number of RPP eligible customers we will equate their number of RPP eligible customers to the MDM/R meters enrolled count.
- If the number of meters enrolled in the MDM/R is less than their last OEB reported number of RPP eligible customers, we will retain the RPP eligible customers last reported to the OEB.

May 31, 2013	MDM/R Cutover Targets		
	Production LDCs	RPP Eligible Customers	Enrolled in MDMR
Actuals - Based on Production LDCs data			
Pre- Q2 2010	9	3,016,378	2,823,663
Q3 2010	2	162,167	162,167
Q4 2010	4	123,535	123,535
Q1 2011	13	286,982	287,622
Q2 2011	14	293,049	293,049
Q3 2011	16	584,135	579,700
Q4 2011	5	39,261	38,230
Q1 2012	6	208,018	208,018
Q2 2012	2	55,269	55,269
Q3 2012	-	-	-
Q4 2012	-	-	-
Q1 2013	-	-	-
Q2 2013			
Q3 2013			
Actual Totals for LDCs in Production	71	4,768,794	4,571,253
Projected - Based on enrolment plans submitted to the SME			
Q4 2013	1	84,331	
Projected Totals for Committed LDCs	72	84,331	
Totals (Actual and Projected)	72	4,853,125	4,571,253
% Complete of total RPP Eligible Customers Enrolled in the MDM/R		95.9%	
Notes:			
(1) "RPP Eligible customers" are the total customers reported to the OEB that will ultimately be put on TOU rates and whose smart meters will be enrolled in the MDM/R.			
(2) "Enrolled in MDMR" represents the number of "RPP Eligible Customers" whose smart meters are currently enrolled in the MDM/R.			

3.3 MDM/R Enrolled Meter Counts by Distributor³

The MDM/R Enrolled Meter Counts by Distributor table shows each MDM/R production LDC's progress in enrolling smart meters over the previous month. The total meters enrolled in the previous and the current reporting months are provided, along with the net increase or decrease over the period. Note that in some cases there may be a small decrease in the number of meters enrolled from month to month. This reflects the routine day-to-day activities within an LDC's operation that involve the removals and deactivations of meters.

The source of the data in the *Total Meters Enrolled* and the *Total RPP Eligible Customers* columns come from data filed by the LDCs with the OEB. The *% Complete* column indicates what percentages of the Total RPP Eligible Customers are enrolled in MDM/R production as of the end of the reporting period. *This number may exceed 100% due to a difference in timing between the data used for this report and the OEB submission of the Total RPP Eligible Customers to the SME.*

As of May 31, 2013	MDM/R Enrolled Meter Counts by Distributor				
Distributor	Total Meters Enrolled through 30-Apr	Total Meters Enrolled through 31-May	Increased Meter Enrolment this Month	Total RPP Eligible Customers	% Complete for Production LDCs
Atikokan Hydro*	1,671	1,671	0	1,671	100.0%
Bluewater*	35,599	35,624	25	35,624	100.0%
Brant County Power*	9,899	9,915	16	9,915	100.0%
Brantford Power*	38,063	38,104	41	38,104	100.0%
Burlington Hydro*	64,959	64,986	27	64,986	100.0%
Cambridge*	52,022	52,064	42	52,064	100.0%
Centre Wellington*	6,586	6,616	30	6,616	100.0%
Chapleau*	1,276	1,276	0	1,276	100.0%
CNPI*	40,130	40,144	14	40,144	100.0%
COLLUS Power*	16,097	16,115	18	16,115	100.0%
E.L.K. Energy	10,978	10,955	-23	10,945	100.1%
Embrun*	1,949	1,949	0	1,949	100.0%
Enersource	189,372	189,393	21	194,311	97.5%
Entegrus*	40,313	40,333	20	40,333	100.0%
Erie Thames*	18,133	18,145	12	18,145	100.0%
Espanola*	3,313	3,313	0	3,313	100.0%
Essex Power*	28,310	28,333	23	28,333	100.0%
Festival Hydro*	19,850	19,865	15	19,865	100.0%
Fort Frances*	3,739	3,739	0	3,739	100.0%
Greater Sudbury*	47,171	47,197	26	47,197	100.0%
Grimsby Power*	10,414	10,423	9	10,423	100.0%
Guelph Hydro*	50,745	50,826	81	50,826	100.0%
Haldimand County*	21,151	21,161	10	21,161	100.0%
Halton Hills*	21,053	21,092	39	21,092	100.0%
Hearst Power*	2,709	2,709	0	2,709	100.0%
Horizon Utilities*	234,749	235,168	419	235,168	100.0%
Hydro 2000*	1,207	1,208	1	1,208	100.0%
Hydro Hawkesbury*	6,537	6,537	0	6,537	100.0%
Hydro One ¹	1,119,701	1,119,801	100	1,208,801	92.6%
Hydro One Brampton*	140,693	141,075	382	141,075	100.0%
Hydro Ottawa*	307,783	308,118	335	308,118	100.0%

Innisfil Hydro*	15,108	15,149	41	15,149	100.0%
Kenora Hydro*	5,575	5,577	2	5,577	100.0%
Kingston Hydro*	27,209	27,219	10	27,219	100.0%
Kitchener-Wilmot*	88,575	88,663	88	88,663	100.0%
Lakefront Utilities*	9,876	9,901	25	9,901	100.0%
Lakeland Power*	9,719	9,724	5	9,724	100.0%
London Hydro*	148,472	148,600	128	148,600	100.0%
Midland Power*	6,894	6,895	1	6,895	100.0%
Milton Hydro*	31,676	31,889	213	31,889	100.0%
NewmarketTay*	33,770	33,888	118	33,888	100.0%
Niagara Peninsula	50,455	50,449	-6	49,976	100.9%
Niagara-on-the-Lake*	8,128	8,128	0	8,128	100.0%
Norfolk Power*	19,195	19,228	33	19,228	100.0%
North Bay Hydro	22,650	22,654	4	23,685	95.6%
Northern Ontario Wires*	5,991	5,991	0	5,991	100.0%
Oakville Hydro	64,049	64,173	124	63,533	101.0%
Orangeville Hydro*	11,355	11,373	18	11,373	100.0%
Orillia Power*	13,099	13,129	30	13,129	100.0%
Oshawa PUC*	53,203	53,309	106	53,309	100.0%
Ottawa River*	10,549	10,565	16	10,565	100.0%
Parry Sound*	3,389	3,392	3	3,392	100.0%
Peterborough*	35,367	35,404	37	35,404	100.0%
PowerStream*	326,345	326,720	375	326,720	100.0%
PUC Distribution*	32,992	32,998	6	32,998	100.0%
Renfrew Hydro*	4,183	4,188	5	4,188	100.0%
Rideau St. Lawrence*	5,801	5,803	2	5,803	100.0%
Sioux Lookout*	2,737	2,737	0	2,737	100.0%
St. Thomas*	16,569	16,612	43	16,612	100.0%
Thunder Bay*	49,850	49,854	4	49,854	100.0%
Tillsonburg*	6,683	6,683	0	6,683	100.0%
Toronto Hydro	612,241	612,241	0	715,956	85.5%
Veridian*	115,290	115,505	215	115,505	100.0%
Wasaga*	12,542	12,555	13	12,555	100.0%
Waterloo North*	53,716	53,819	103	53,819	100.0%
Welland Hydro*	22,212	22,227	15	22,227	100.0%
Wellington North*	3,644	3,645	1	3,645	100.0%
West Coast Huron*	3,813	3,814	1	3,814	100.0%
Westario Power*	22,535	22,566	31	22,566	100.0%
Whitby Hydro*	40,756	40,786	30	40,786	100.0%
Woodstock Hydro*	15,323	15,345	22	15,345	100.0%
Total Meter Counts	4,567,708	4,571,253	3,545	4,768,794	95.9%
*This LDC has implemented TOU for more than 98% of their customers and has been given an exemption by the OEB from having to report monthly enrolment numbers.					
†Hydro One has been granted an exemption by the OEB from having to report monthly enrolment numbers as a result of TOU implementation for some of their hard-to-reach customers.					

3.4 Distributor Enrolment Testing Activities with the MDM/R

The System Integration Testing, Qualification Testing and Cutover timelines identified are sourced from the details in the Enrolment Wave Calendar. Unit testing timelines are provided by each LDC in their MDM/R project plan.

No enrolment testing activity is expected until the third quarter of 2013.

3.5 MDM/R Enrolment Wave Calendar

The MDM/R Enrolment Wave Calendar is an integrated plan illustrating the three formal enrolment testing milestones of SIT, QT, and Cutover for all non-production LDCs. The background colour for each LDC's name indicates the source of the information used in the calendar:

- Green indicates that the LDC has submitted a project plan, completed Unit testing and the SME has accepted the LDC's Self-Certification for Enrolment Testing.
- Blue indicates that the SME has reviewed and accepted the LDC's project plan.
- Yellow either indicates that the SME has not received a project plan but has received verbal confirmation of the LDC's three enrolment testing milestones or that the LDC has verbally indicated that it will re-submit a new plan. This information is not used for projecting LDC cutover dates in any of the other charts in this report.
- Red indicates that the LDC has not shared their plan with the SME.
- White indicates a production LDC that has completed Cutover.
- Orange indicates that the LDC is scheduled for amalgamation.

The RPP eligible customer counts come from data filed by the LDCs with the OEB. As LDC plans change, the reason code will indicate one of five possible reasons:

1. The change may have been initiated by the SME due to resource or system constraints.
2. The LDC may have re-submitted a new plan.
3. The LDC may have missed timelines for their project tasks and therefore was not ready to proceed in accordance with their plan.
4. The LDC may have entered enrolment testing but subsequently had to withdraw because they were unable to successfully complete the tests.
5. The LDC's previous plan has changed but they have not re-submitted a new plan.

When an LDC's schedule is changed, the milestones for the previous schedule remain on the calendar but are greyed out.

Finally, each section on the timeline represents a one-week period starting on a Monday.

MDM/R Enrolment Wave Calendar

As of May 31, 2013

S SIT - normally 2 weeks
 Q QT - normally 4 weeks
 C Cutover - normally 2 weeks

Reason for Latest Change	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			
Reason Code:																									
1: IESO Change																									
2: LDC Plan change																									
3: LDC Not Ready																									
4: LDC Wave Failure																									
5: Update pending																									
	February	March	April	May	June	July	August	September 2	September 9	September 16	September 23	September 30	October 7	October 14	October 21	October 28	November 4	November 11	November 18	November 25	December 2	December 9	December 16	December 23	December 30

RPP Eligible Customers	LDC Name																								
84,331	ENWIN Powerlines Ltd.							S	S	S	Q	Q	Q	Q			C	C	C						

- Red = No project plan submitted
- Yellow = Verbal indication of major milestones
- Blue = Project plan submitted
- Green = Enrolment self-certification accepted
- White = Production LDC
- Orange = Scheduled for amalgamation

MDMR Production LDCs	
1,671	Atikokan Hydro Inc.
35,624	Bluewater Power Distribution Corp.
9,915	Brant County Power Inc
38,104	Brantford Power Inc.
64,986	Burlington Hydro Inc.
52,064	Cambridge & North Dumfries Hydro Inc.
6,616	Centre Wellington Hydro Ltd.
1,276	Chapleau Public Utilities Corp.
27,547	CNP - Fort Erie
9,075	CNP - Port Colborne Hydro Inc
3,522	CNP - EOP
16,115	Collus Power Corp
1,949	Cooperative Hydro Embrun Inc.
10,945	E.L.K. Energy Inc.
194,311	Energysource Hydro Mississauga Inc.
40,333	Entegrus
18,145	Erie Thames Powerlines Corp.
3,313	Espanola Regional Hydro Distribution Corp.
28,333	Essex Power Lines Corp.
19,865	Festival Hydro Inc.
3,739	Fort Frances Power Corp.
47,197	Greater Sudbury Hydro Inc.
10,423	Grimsby Power Inc.
50,826	Guelph Hydro Electric Systems Inc.
21,161	Haldimand County Hydro
21,092	Halton Hills
2,709	Hearst Power Distribution Company Ltd
235,168	Horizon Utilities Corporation
1,208	Hydro 2000 Inc.
6,537	Hydro Hawkesbury Inc.
1,208,801	Hydro One
141,075	Hydro One Brampton Networks Inc.
308,118	Hydro Ottawa Limited
15,149	Innisfil Hydro Distribution Systems Ltd.
5,577	Kenora Hydro Electric Corp Ltd
27,219	Kingston Hydro Corporation
88,663	Kitchener-Wilmot Hydro Inc.
9,901	Lakefront Utilities Inc.
9,724	Lakeland Power Distribution Ltd.
148,600	London Hydro
6,895	Midland Power Utility Corp
31,889	Milton Hydro
33,888	Newmarket Hydro Ltd./Tay Hydro
49,976	Niagara Peninsula Energy Inc.
8,128	Niagara-on-the-Lake Hydro Inc.
19,228	Norfolk Power Distribution Inc.
23,685	North Bay Hydro Distribution Ltd
5,991	Northern Ontario Wires Inc.
63,533	Oakville Hydro Electricity Distribution Inc.
11,373	Orangeville Hydro Ltd.
13,129	Orillia Power Distribution Corp.
53,309	Oshawa PUC Networks Inc.
10,565	Ottawa River Power Corp.
3,392	Parry Sound Power Corp.
35,404	Peterborough Distribution Inc.
326,720	PowerStream Inc
32,998	PUC Distribution Inc.
4,188	Renfrew Hydro Inc.
5,803	Rideau St. Lawrence Distribution Inc.
2,737	Sioux Lookout Hydro
16,612	St. Thomas Energy Inc.
49,854	Thunder Bay Electricity Distribution Inc.
6,683	Tillsonburg Hydro Inc.
715,956	Toronto Hydro Electric Services Ltd.
115,505	Veridian Connections
12,555	Wasaga Distribution Inc.
53,819	Waterloo North Hydro Inc.
22,227	Welland Hydro-Electric System Corp.
3,645	Wellington North Power Inc.
3,814	West Coast Huron Energy Inc.
22,566	Westario Power Inc.
40,786	Whitby Hydro Energy Services Corp.
15,345	Woodstock Hydro Services Inc.
4,768,794	Production total customer count
4,853,125	All LDC total customer count