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REPORT

**Smart Metering Entity (SME)
Time-of-Use Mandate Progress Report
Through February 29, 2012**

Issue 19.0 - March 20, 2012

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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) and 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 Outlook
- MDM/R Enrolled Meter Counts by Distributor
- Distributor Testing Activities with the MDM/R (Three Month Outlook)
- MDM/R Enrolment Wave Calendar (2012)

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

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

- 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.
- The Distributor Testing Activities with the MDM/R (Three Month Outlook) projects those LDCs that will be in System Integration Testing, Qualification Testing and Cutover activities over the next three months from 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) continues to effectively support distributor enrolment and the implementation of TOU billing under the Board's TOU mandate.

The MDM/R production environment continued to experience stable and reliable operation in February.

The SME remains confident that with ongoing tuning 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.

2.2 Processing Performance

At the end of February, the MDM/R was supporting 70 LDCs in production with a total of 4.2 million enrolled smart meters. The MDM/R processed an average of 3.2 million meter reads daily with a single day peak of 3.46 million meters reporting on February 1, 2012.

In February, the MDM/R processed 100% of meter reads, meter master data updates and billing quantities within contracted service levels. The SME is working with several LDCs and their metering providers who often submit poor quality meter read data files to the MDM/R. Improving the quality of these submittals will help ensure the reliable operation of the MDM/R.

Note: LDCs continue to be asked to schedule their synchronization files in advance whenever they contain an initial ramp-up of more than 15,000 meters in order to avoid conflicting requests. This is necessary only for the initial ramp up of large numbers of smart meters and will not be needed once full production volumes have been reached.

2.3 Resourcing

The SME continues to make resources available to LDCs in support of their time-of-use implementation plans and transition to MDM/R Release 7.2 and the Measurement Canada 2011 Solution. There were no significant resource changes in February.

2.4 Training

The SME continues to adjust our training and workshop session offerings to meet the needs of the LDCs. Training sessions on the use of the MDM/R's graphical user interface (GUI) are conducted both on-site at our facilities and at LDC facilities. For training details, please refer to the training page and workshop calendar for the first six months of 2012 on the SME website (<http://www.smi-ieso.ca/training>). With the majority of LDCs in MDM/R production, the demand for GUI training has diminished.

With most of the remaining non-production distributors in various stages of preparations to integrate with the MDM/R we are confident that the SME can continue to provide support to LDCs in all stages of enrolment testing.

2.5 Additional Risks and Issues

Measurement Canada (MC)

As previously reported, all the changes required to the MDM/R to support the province's Measurement Canada 2011 Solution have been received and have been under test for several months. These changes, delivered as part of a new version of the software (Release 7.2) were made available for LDC testing last July. This provided a viable early platform against which LDCs could test the changes to their systems that support the MC 2011 solution and prepare themselves for its migration into production.

More recent and improved versions of the R7.2 software have steadily been made available for LDC testing as they have become available. Based on test results to date, the SME believes that R7.2 is very close to being ready for production. On March 14, the SME provided an updated release of software for LDC regression testing. The SME has advised those LDCs that have not completed their required R7.2 certification testing to move expeditiously on this effort. All previous R7.2 certification testing remains valid; no retesting by LDCs will be required.

Provided that further testing by LDCs and the SME is satisfactory, and no new critical defects are identified, the SME will be in a position to confirm a production promotion schedule shortly.

The SME continues to work closely with LDCs as the Measurement Canada solution rolls out and they prepare their systems. Workshops, drop-in sessions, and webinars have been delivered to support the LDCs preparations. Please refer to the SME website (<http://smi-ieso.ca/>) for materials related to the promotion of Release 7.2 and the Measurement Canada 2011 Solution.

Development and testing of additional MDM/R functionality to further fulfill Measurement Canada's requirements is well underway. The first element of the solution, that provides the equality adjustment of TOU billing quantities to register reads, has been delivered and tested, and is expected to be included with the implementation of Release 7.2 to production. Other elements of the solution are targeted for delivery in May 2012; implementation dates for these elements are yet to be determined.

Distributor Readiness – MDM/R Integration and Meter Enrolment

3.1 February Highlights

By the end of February there were 70 LDCs in production with 4.2 million meters enrolled in the MDM/R.

Enrolment activities in February included:

- **Cutover:** 4 LDCs, Cambridge and North Dumfries Hydro, Canadian Niagara Power, Grimsby Power and Westario Power
- **Enrolment Testing in Progress:** Festival Hydro, Peterborough Distribution.

Note: At the end of February, there were two LDCs that had not connected to and started testing with the MDM/R.

3.2 MDM/R Cutover Targets

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. Monthly breakdowns are provided for the current quarter only.

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.

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.

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.

As of February 29, 2012	MDM/R Cutover Targets		
	Production LDCs	RPP Eligible Customers	Enrolled in MDMR
Actuals - Based on Production LDCs data			
Pre- Q2 2010	9	2,963,927	2,744,678
Q3 2010	2	156,378	156,378
Q4 2010	4	120,610	120,257
Q1 2011	13	282,913	283,700
Q2 2011	15	294,644	293,518
Q3 2011	16	569,334	452,616
Q4 2011	5	38,885	37,883
Q1 2012			
January 2012	2	81,734	81,537
February 2012	4	111,521	88,966
Actual Totals for LDCs in Production	70	4,619,946	4,259,533
Projected - Based on enrolment plans submitted to the SME			
Q2 2012	2	54,373	
Projected Totals for Committed LDCs	2	54,373	
Totals (Actual and Projected)	72	4,674,319	4,259,533
Not Committed - LDCs have not provided enrolment plans			
Schedules not yet determined	2	95,751	
Totals including non-committed LDCs	74	4,770,070	4,259,533
% Complete of total RPP Eligible Customers Enrolled in the MDM/R		89.3%	
<p>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.</p> <p>(2) "Enrolled in MDMR" represents the number of "RPP Eligible Customers" whose smart meters are currently enrolled in the MDM/R.</p>			

3.3 MDM/R Enrolled Meter Counts by Distributor

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.

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 their 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.

As of February 29, 2012	MDM/R Enrolled Meter Counts by Distributor				
Distributor	Total Meters Enrolled through 31-Jan	Total Meters Enrolled through 29-Feb	Increased Meter Enrolment this Month	Total RPP Eligible Customers	% Complete for Production LDCs
Atikokan Hydro	1,686	1,686	0	1,686	100.0%
Bluewater	0	35,405	35,405	35,409	100.0%
Brant County Power*	9,529	9,637	108	9,637	100.0%
Brantford Power*	37,468	37,545	77	37,545	100.0%
Burlington Hydro*	63,932	64,417	485	64,417	100.0%
Cambridge	0	50,794	50,794	50,794	100.0%
Centre Wellington	6,428	6,459	31	6,459	100.0%
Chapleau*	1,273	1,271	-2	1,271	100.0%
Chatham-Kent*	39,705	32,096	-7,609	32,096	100.0%
CNPI	0	27,998	27,998	28,218	99.2%
COLLUS Power	15,751	15,787	36	15,787	100.0%
E.L.K. Energy	10,716	10,726	10	10,823	99.1%
Embrun	1,942	1,943	1	1,835	105.9%
Enersource	47,213	77,752	30,539	192,068	40.5%
Erie Thames*	17,957	17,966	9	17,966	100.0%
Espanola	3,286	3,286	0	3,286	100.0%
Essex Power*	27,857	28,095	238	28,095	100.0%
Fort Frances	3,732	3,732	0	3,732	100.0%
Greater Sudbury	46,060	46,132	72	46,325	99.6%
Grimsby Power	0	10,174	10,174	10,266	99.1%
Guelph Hydro	48,104	48,227	123	48,044	100.4%
Haldimand County	20,912	20,919	7	20,920	100.0%
Halton Hills*	20,643	20,742	99	20,742	100.0%
Hearst Power	2,690	2,690	0	2,504	107.4%
Horizon Utilities	229,348	229,645	297	233,828	98.2%
Hydro 2000	1,197	1,197	0	1,197	100.0%
Hydro Hawkesbury*	5,350	5,393	43	5,393	100.0%
Hydro One	1,082,301	1,082,301	0	1,201,929	90.0%
Hydro One Brampton*	135,352	135,636	284	135,636	100.0%
Hydro Ottawa	295,016	296,880	1,864	302,364	98.2%
Innisfil Hydro	14,652	14,679	27	14,781	99.3%
Kenora Hydro*	5,507	5,531	24	5,531	100.0%
Kingston Hydro	26,358	26,365	7	26,521	99.4%
Kitchener-Wilmot	87,142	87,297	155	87,298	100.0%
Lakefront Utilities	9,545	9,556	11	9,556	100.0%
Lakeland Power*	9,583	9,588	5	9,588	100.0%
London Hydro	139,225	139,595	370	140,499	99.4%
Middlesex Power*	7,958	7,958	0	7,958	100.0%

As of February 29, 2012	MDM/R Enrolled Meter Counts by Distributor				
Distributor	Total Meters Enrolled through 31-Jan	Total Meters Enrolled through 29-Feb	Increased Meter Enrolment this Month	Total RPP Eligible Customers	% Complete for Production LDCs
Midland Power*	6,839	6,842	3	6,842	100.0%
Milton Hydro*	28,883	29,016	133	29,016	100.0%
NewmarketTay*	32,925	32,633	-292	32,633	100.0%
Niagara Peninsula	48,205	47,977	-228	49,741	96.5%
Niagara-on-the-Lake	7,916	7,933	17	7,939	99.9%
Norfolk Power	17,795	17,949	154	18,853	95.2%
North Bay Hydro	22,491	22,509	18	23,619	95.3%
Northern Ontario Wires	5,908	5,918	10	5,991	98.8%
Oakville Hydro	63,734	63,734	0	62,807	101.5%
Orangeville Hydro	11,110	11,113	3	11,113	100.0%
Orillia Power*	12,850	12,869	19	12,869	100.0%
Oshawa PUC*	52,259	52,307	48	52,307	100.0%
Ottawa River	10,321	10,363	42	10,399	99.7%
Parry Sound*	3,333	3,330	-3	3,330	100.0%
PowerStream*	315,615	316,956	1,341	316,956	100.0%
PUC Distribution	32,675	32,672	-3	32,636	100.1%
Renfrew Hydro	3,872	3,872	0	3,872	100.0%
Rideau St. Lawrence	5,775	5,775	0	5,775	100.0%
Sioux Lookout*	2,696	2,698	2	2,698	100.0%
St. Thomas*	16,295	16,323	28	16,323	100.0%
Thunder Bay*	49,483	49,530	47	49,530	100.0%
Tillsonburg	6,341	6,358	17	6,683	95.1%
Toronto Hydro	612,241	612,241	0	702,195	87.2%
Veridian*	112,672	112,910	238	112,910	100.0%
Wasaga	12,288	12,290	2	12,293	100.0%
Waterloo North	51,996	52,004	8	52,032	99.9%
Welland Hydro.	21,991	22,002	11	21,786	101.0%
Wellington North	3,599	3,591	-8	3,591	100.0%
West Coast Huron	3,652	3,659	7	3,659	100.0%
Westario Power	0	0	0	22,243	0.0%
Whitby Hydro	39,702	39,928	226	40,170	99.4%
Woodstock Hydro*	15,102	15,131	29	15,131	100.0%
Total Meter Counts	4,105,982	4,259,533	153,551	4,619,946	92.2%
*Numbers as of February 2012 are directly from MDM/R data. 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.					

3.4 Distributor Testing Activities with the MDM/R (Three Month Outlook)

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

The projected activities for the next three months now include:

- Two distributors are scheduled for enrolment testing in March, one in April.
- One distributor is scheduled to cut over to production in March and one in May.

As of February 29, 2012	<i>Distributor Testing Activities with the MDM/R (Three Month Outlook)</i>		
	Mar-12	Apr-12	May-12
In Enrolment Testing - SIT	Peterborough		
In Enrolment Testing - QT	Festival Hydro Peterborough	Peterborough	
Cutover	Festival Hydro		Peterborough

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 February 29, 2012

S SIT - normally 2 weeks
 Q QT - normally 4 weeks
 C Cut-Over - normally 2 weeks

Reason for Latest Change	Jan 30	Feb 6	Feb 13	Feb 20	Feb 27	Mar 5	Mar 12	Mar 19	Mar 26	Apr 2	Apr 9	Apr 16	Apr 23	Apr 30	May 7	May 14	May 21	May 28	June 4	June 11	June 18	June 25
Reason Code: 1: IESO Change 2: LDC Plan change 3: LDC Not Ready 4: LDC Wave Failure 5: Update pending	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

RPP Eligible Customers	LDC Name	Jan 30	Feb 6	Feb 13	Feb 20	Feb 27	Mar 5	Mar 12	Mar 19	Mar 26	Apr 2	Apr 9	Apr 16	Apr 23	Apr 30	May 7	May 14	May 21	May 28	June 4	June 11	June 18	June 25
84,186	ENWIN Powerlines Ltd.																						
35,038	Peterborough Distribution Inc.	Q	Q	C	C																		
11,565	Algoma Power Inc. (scheduled for CIS amalgamation with CNPI)						S	S	Q	Q	Q	Q	Q										
19,335	Festival Hydro Inc.																						

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

1,686	Atikokan Hydro Inc.
35,409	Bluewater Power Distribution Corp.
9,637	Brant County Power Inc
37,545	Brantford Power Inc.
64,417	Burlington Hydro Inc.
50,794	Cambridge & North Dumfries Hydro Inc.
6,459	Centre Wellington Hydro Ltd.
1,271	Chapleau Public Utilities Corp.
32,096	Chatham-Kent Hydro Inc.
15,607	CNP - Fort Erie
9,082	CNP - Port Colborne Hydro Inc
3,529	CNP - EOP
15,787	Collus Power Corp
1,835	Cooperative Hydro Embrun Inc.
10,823	E.L.K. Energy Inc.
192,068	Enersource Hydro Mississauga Inc.
17,966	Erie Thames Powerlines Corp. (amalgamated with Clinton Power and West Perth Power on June 1, 2011)
3,286	Espanola Regional Hydro Distribution Corp.
28,095	Essex Power Lines Corp.
3,732	Fort Frances Power Corp.
48,044	Guelph Hydro Electric Systems Inc.
46,325	Greater Sudbury Hydro Inc.
10,266	Grimsby Power Inc.
20,920	Haldimand County Hydro
20,742	Halton Hills
2,504	Hearst Power Distribution Company Ltd
233,828	Horizon Utilities Corporation
1,197	Hydro 2000 Inc.
5,393	Hydro Hawkesbury Inc.
1,201,929	Hydro One
135,636	Hydro One Brampton Networks Inc.
302,364	Hydro Ottawa Limited
14,781	Innisfil Hydro Distribution Systems Ltd.
5,531	Kenora Hydro Electric Corp Ltd
87,298	Kitchener-Wilmot Hydro Inc.
26,521	Kingston Hydro Corporation
9,556	Lakefront Utilities Inc.
9,588	Lakeland Power Distribution Ltd.
140,499	London Hydro
7,958	Middlesex Power Distribution Corp. (bought Newbury(185) and Dutton (622))
6,842	Midland Power Utility Corp
29,016	Milton Hydro
32,633	Newmarket Hydro Ltd./Tay Hydro
7,939	Niagara-on-the-Lake Hydro Inc.
49,741	Niagara Peninsula Energy Inc. (includes Peninsula West @ 14,351)
5,991	Northern Ontario Wires Inc.
23,619	North Bay Hydro Distribution Ltd
18,853	Norfolk Power Distribution Inc.
62,807	Oakville Hydro Electricity Distribution Inc.
11,113	Orangeville Hydro Ltd. (includes Grand Valley (659))
12,869	Orillia Power Distribution Corp.
52,307	Oshawa PUC Networks Inc.
10,399	Ottawa River Power Corp.
3,330	Parry Sound Power Corp.
316,956	PowerStream Inc
32,636	PUC Distribution Inc.
3,872	Renfrew Hydro Inc.
5,775	Rideau St. Lawrence Distribution Inc.
2,698	Sioux Lookout Hydro
16,323	St. Thomas Energy Inc.
49,530	Thunder Bay Electricity Distribution Inc.
6,683	Tillsonburg Hydro Inc.
702,195	Toronto Hydro Electric Services Ltd.
112,910	Veridian Connections
12,293	Wasaga Distribution Inc.
52,032	Waterloo North Hydro Inc.
21,786	Welland Hydro-Electric System Corp.
3,591	Wellington North Power Inc.
22,243	Westario Power Inc.
3,659	West Coast Huron Energy Inc.
40,170	Whitby Hydro Energy Services Corp.
15,131	Woodstock Hydro Services Inc.
4,619,946	Production total customer count
4,770,070	All LDC total customer count