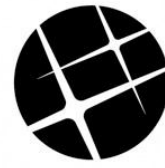


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REPORT

**Smart Metering Entity (SME)
Time-of-Use Mandate Progress Report
Through August 31, 2012**

Issue 25.0 - September 24, 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 continues to experience stable and reliable operation. Several problems were remediated in August. There remain a few minor problems that are being expeditiously addressed. LDCs are transitioning to the new billing quantity interface that enables them to comply with Measurement Canada’s requirements to include register readings on customers’ time-of-use bills.

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 August, the MDM/R was supporting 71 LDCs in production with a total of 4.51 million enrolled smart meters, and the MDM/R processed an average of 3.9 million meter reads daily.

In August, the MDM/R processed all meter reads, meter master data updates, and billing quantities within service level time lines.

To help ensure reliable operation of the MDM/R, the SME is continuing to work with LDCs and our vendors to reduce the impact on the MDM/R associated with the poor quality and the delayed submissions of Meter Read data from a few LDCs and their metering providers. Malformed, delayed and redundant data submissions place increasing resource demands on the SME and the MDM/R, sometimes causing modest delays in the timely delivery of information back to the LDCs. Examples of these situations include:

- Future dated meter reads
- Meter reads with large time gaps between the beginning and ending interval data
- Duplicate submittals of the same meter read data files
- Missing or delayed meter reads for a significant percentage of an LDC’s population
- Submitting identical billing requests multiple times, and
- Submitting all billing requests as “off cycle”.

We have also observed LDCs using the MDM/R web-services facility for bulk retrieval of meter reads. The existing facility was designed and sized primarily to support retrieval of meter reads for ratepayers and agents. To support this increased use, and LDC requirements for bulk retrieval of meter reads, the SME is exploring options with our vendors for enhancing the performance of the existing facility and developing a new functionality for bulk ad-hoc meter reads retrieval that doesn’t use web services.

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 August.

2.4 Training

The SME continues to adjust our training and workshop session offerings to meet the needs of the LDCs. We have posted Issue 1.0 of the MDM/R Operations Manuals (Incident and Problem Management, Change Management, Business Continuity) to the SME website. In September the SME will hold information sessions to ensure LDCs gain an understanding of their roles and responsibilities in relation to the processes established thru these manuals. The schedule dates and venues for these sessions have been posted on the SME website. Please refer to the training page and workshop calendar on the SME website (<http://www.smi-ieso.ca/training>).

The SME will also be deploying significant enhancements to the supporting tools and procedures for use by LDCs, the SME and IBM in integrated operation and support of the MDM/R on September 21, 2012. Workshops were conducted in early September to inform LDCs of these changes.

2.5 Additional Risks and Issues

Measurement Canada (MC)

With the deployment of Release 7.2 to the MDM/R production environment in mid April, the MDM/R functionality needed to support LDCs incorporation of cumulative register readings on customer TOU bills was put in place.

It remains the LDC's responsibility to make the necessary changes to their own systems and business processes and conduct their own tests before they actually include cumulative register reads on the customer TOU bills.

At the end of August 50 LDCs have transitioned to the interface to enable them to receive register reads for billing to support their compliance with Measurement Canada requirements. Based on requested transition schedules submitted by the LDCs, we expect to have 58 LDCs enabled to receive register reads for billing by the end of September with one additional LDC's transition scheduled for November. Ten LDCs have yet to provide their transition schedules to the IESO. Four LDCs are currently not involved in getting register reads from the MDM/R for billing.

The software providing additional MDM/R functionality to further fulfill Measurement Canada's requirements (known as the "Measurement Canada 2012 Solution Part 2") has been developed and delivered for SME testing. We will establish an implementation schedule following initial testing and in coordination with other priorities.

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. The number of reported issues has diminished as LDCs have completed a full billing cycle under the new software.

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

3.1 August Highlights

By the end of August there were 71 LDCs in production with 4.51 million meters enrolled in the MDM/R. Two LDCs have not connected to and started testing with the MDM/R. One LDC has provided a preliminary integration date with the MDM/R in the fourth quarter of 2012, and the other LDC will begin integration testing with the MDM/R in the third and fourth quarters of 2013 with a targeted cutover to production in the first quarter of 2014.

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. 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.

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.

August 31, 2012	MDM/R Cutover Targets		
	Production LDCs	RPP Eligible Customers	Enrolled in MDMR
Actuals - Based on Production LDCs data			
Pre- Q2 2010	9	2,999,456	2,793,106
Q3 2010	2	158,516	158,516
Q4 2010	4	122,038	122,038
Q1 2011	13	284,814	285,518
Q2 2011	14	290,765	290,906
Q3 2011	16	579,712	573,448
Q4 2011	5	39,122	38,064
Q1 2012	6	194,398	195,084
Q2 2012	2	54,746	51,319
July 2012			
August 2012			
September 2012			
Actual Totals for LDCs in Production	71	4,723,567	4,507,999
Projected - Based on enrolment plans submitted to the SME			
Q3 2012	0	0	
Projected Totals for Committed	0	0	
Totals (Actual and Projected)	71	4,723,567	4,507,999
Not Committed - LDCs have not provided enrolment plans			
Schedules not yet determined	2	95,920	
Totals including non-committed LDCs	73	4,819,487	4,507,999
% Complete of total RPP Eligible Customers Enrolled in the MDM/R		93.5%	
<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 Distributor²

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 August 31, 2012	MDM/R Enrolled Meter Counts by Distributor				
Distributor	Total Meters Enrolled through 31-Jul	Total Meters Enrolled through 31-Aug	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*	35,487	35,502	15	35,502	100.0%
Brant County Power *	9,756	9,786	30	9,786	100.0%
Brantford Power *	37,722	37,765	43	37,765	100.0%
Burlington Hydro *	64,760	64,784	24	64,784	100.0%
Cambridge	51,783	51,892	109	51,195	101.4%
Centre Wellington*	6,540	6,541	1	6,541	100.0%
Chapleau*	1,274	1,274	0	1,274	100.0%
CNPI*	28,388	28,404	16	28,404	100.0%
COLLUS Power *	15,957	15,981	24	15,981	100.0%
E.L.K. Energy	10,887	10,892	5	10,886	100.1%
Embrun *	1,945	1,946	1	1,946	100.0%
Enersource	187,085	187,800	715	192,690	97.5%
Entegrus*	40,150	40,166	16	40,166	100.0%
Erie Thames*	18,028	18,030	2	18,030	100.0%
Espanola*	3,300	3,300	0	3,300	100.0%
Essex Power*	28,182	28,182	0	28,182	100.0%
Festival Hydro*	19,366	19,520	154	19,520	100.0%
Fort Frances*	3,735	3,735	0	3,735	100.0%
Greater Sudbury	46,530	46,582	52	46,593	100.0%
Grimsby Power*	10,336	10,357	21	10,357	100.0%
Guelph Hydro*	50,210	50,263	53	50,263	100.0%
Haldimand County *	21,038	21,054	16	21,054	100.0%
Halton Hills*	20,800	20,805	5	20,805	100.0%
Hearst Power*	2,698	2,709	11	2,709	100.0%
Horizon Utilities *	233,828	233,828	0	233,828	100.0%
Hydro 2000 *	1,201	1,201	0	1,201	100.0%
Hydro Hawkesbury *	6,537	6,537	0	6,537	100.0%
Hydro One	1,090,855	1,105,746	14,891	1,210,740	91.3%
Hydro One Brampton*	137,315	137,711	396	137,711	100.0%
Hydro Ottawa	300,809	301,308	499	304,450	99.0%

Innisfil Hydro*	14,847	14,886	39	14,886	100.0%
Kenora Hydro*	5,549	5,551	2	5,551	100.0%
Kingston Hydro*	27,081	27,087	6	27,087	100.0%
Kitchener-Wilmot*	87,830	87,910	80	87,910	100.0%
Lakefront Utilities*	9,773	9,773	0	9,773	100.0%
Lakeland Power*	9,640	9,660	20	9,660	100.0%
London Hydro*	147,029	147,236	207	147,236	100.0%
Midland Power*	6,862	6,866	4	6,866	100.0%
Milton Hydro*	29,819	30,015	196	30,015	100.0%
NewmarketTay*	33,244	33,344	100	33,344	100.0%
Niagara Peninsula	48,557	48,587	30	49,967	97.2%
Niagara-on-the-Lake*	7,992	8,019	27	8,019	100.0%
Norfolk Power	19,005	19,035	30	18,894	100.7%
North Bay Hydro	22,568	22,569	1	23,627	95.5%
Northern Ontario Wires *	5,991	5,991	0	5,991	100.0%
Oakville Hydro	63,745	63,812	67	63,108	101.1%
Orangeville Hydro*	11,214	11,239	25	11,239	100.0%
Orillia Power *	12,985	12,986	1	12,986	100.0%
Oshawa PUC *	52,687	52,687	0	52,687	100.0%
Ottawa River*	10,457	10,466	9	10,466	100.0%
Parry Sound *	3,366	3,375	9	3,375	100.0%
Peterborough	31,740	31,799	59	35,226	90.3%
PowerStream *	318,968	322,300	3,332	322,300	100.0%
PUC Distribution *	32,855	32,872	17	32,872	100.0%
Renfrew Hydro *	4,160	4,163	3	4,163	100.0%
Rideau St. Lawrence*	5,805	5,807	2	5,807	100.0%
Sioux Lookout *	2,716	2,720	4	2,720	100.0%
St. Thomas*	16,399	16,413	14	16,413	100.0%
Thunder Bay*	49,587	49,598	11	49,598	100.0%
Tillsonburg*	6,683	6,683	0	6,683	100.0%
Toronto Hydro	612,241	612,241	0	710,455	86.2%
Veridian *	113,946	114,158	212	114,158	100.0%
Wasaga*	12,371	12,403	32	12,403	100.0%
Waterloo North *	52,879	53,008	129	53,008	100.0%
Welland Hydro*	22,081	22,097	16	22,097	100.0%
Wellington North *	3,618	3,621	3	3,621	100.0%
West Coast Huron *	3,780	3,782	2	3,782	100.0%
Westario Power*	22,343	22,347	4	22,347	100.0%
Whitby Hydro*	40,315	40,406	91	40,406	100.0%
Woodstock Hydro *	15,182	15,200	18	15,200	100.0%
Total Meter Counts	4,486,098	4,507,999	21,901	4,723,567	95.4%
*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 amalgamation of CNP and Algoma is expected at the end of October 2012.³

As of August 31, 2012	<i>Distributor Testing Activities with the MDM/R (Three Month Outlook)</i>		
	Sep-12	Oct-12	Nov-12
In Enrolment Testing - SIT			
In Enrolment Testing - QT			
Cutover		CNP / Algoma amalgamation	

³ Algoma's meters will be enrolled in the MDM/R as part of CNP which is already in MDM/R production; therefore, no enrolment testing is required of Algoma.

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.

SME TOU Mandate Progress Report as of August 31, 2012

MDM/R Enrolment Wave Calendar

As of August 31, 2012

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
Reason Code																
1: IESO Change																
2: LDC Plan change																
3: LDC Not Ready																
4: LDC Wave Failure																
5: Update pending	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12	19
	August	August	August	September	September	September	September	October	October	October	October	October	November	November	November	November

RPP Eligible Customers	LDC Name															
84,339	ENWIN Powerlines Ltd.															
11,581	Algoma Power Inc. (scheduled for CIS amalgamation with CNPI)												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

1,686	Atikokan Hydro Inc.
35,502	Bluewater Power Distribution Corp.
9,786	Brant County Power Inc
37,765	Brantford Power Inc.
64,784	Burlington Hydro Inc.
51,195	Cambridge & North Dumfries Hydro Inc.
6,541	Centre Wellington Hydro Ltd.
1,274	Chapleau Public Utilities Corp.
15,807	CNP - Fort Erie
9,075	CNP - Port Colborne Hydro Inc
3,522	CNP - EOP
15,981	Collus Power Corp
1,946	Cooperative Hydro Embrun Inc.
10,886	E.L.K. Energy Inc.
192,690	Enersource Hydro Mississauga Inc.
40,166	Entegrus
18,030	Erie Thames Powerlines Corp. (amalgamated with Clinton Power and West Perth Power on June 1, 2011)
3,300	Espanola Regional Hydro Distribution Corp.
28,182	Essex Power Lines Corp.
19,520	Festival Hydro Inc.
3,735	Fort Frances Power Corp.
46,593	Greater Sudbury Hydro Inc.
10,357	Grimsby Power Inc.
50,263	Guelph Hydro Electric Systems Inc.
21,054	Haldimand County Hydro
20,805	Halton Hills
2,709	Hearst Power Distribution Company Ltd
233,828	Horizon Utilities Corporation
1,201	Hydro 2000 Inc.*
6,537	Hydro Hawkesbury Inc.
1,210,740	Hydro One
137,711	Hydro One Brampton Networks Inc.
304,450	Hydro Ottawa Limited
14,886	Innisfil Hydro Distribution Systems Ltd.
5,551	Kenora Hydro Electric Corp Ltd
27,087	Kingston Hydro Corporation
87,910	Kitchener-Wilmot Hydro Inc.
9,773	Lakefront Utilities Inc.
9,660	Lakeland Power Distribution Ltd.
147,236	London Hydro
6,866	Midland Power Utility Corp
30,015	Milton Hydro
33,344	Newmarket Hydro Ltd./Tay Hydro
49,967	Niagara Peninsula Energy Inc. (includes Peninsula West @ 14,351)
8,019	Niagara-on-the-Lake Hydro Inc.
18,894	Norfolk Power Distribution Inc.
23,627	North Bay Hydro Distribution Ltd
5,991	Northern Ontario Wires Inc.
63,108	Oakville Hydro Electricity Distribution Inc.
11,239	Orangeville Hydro Ltd. (includes Grand Valley (659))
12,986	Orillia Power Distribution Corp.
52,687	Oshawa PUC Networks Inc.
10,466	Ottawa River Power Corp.
3,375	Parry Sound Power Corp.
35,226	Peterborough Distribution Inc.
322,300	PowerStream Inc
32,872	PUC Distribution Inc.
4,163	Renfrew Hydro Inc.
5,807	Rideau St. Lawrence Distribution Inc.
2,720	Sioux Lookout Hydro
16,413	St. Thomas Energy Inc.
49,598	Thunder Bay Electricity Distribution Inc.
6,683	Tilsonburg Hydro Inc.
710,455	Toronto Hydro Electric Services Ltd.
114,158	Veridian Connections
12,403	Wasaga Distribution Inc.
53,008	Waterloo North Hydro Inc.
22,097	Welland Hydro-Electric System Corp.
3,621	Wellington North Power Inc.
3,782	West Coast Huron Energy Inc.
22,347	Westario Power Inc.
40,406	Whitby Hydro Energy Services Corp.
15,200	Woodstock Hydro Services Inc.
4,723,567	Production total customer count
4,819,487	All LDC total customer count