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REPORT

**Smart Metering Entity (SME)
Time-of-Use Mandate Progress Report
Through June 30, 2012**

Issue 23.0 - July 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 continues to experience stable and reliable operation since the promotion of EnergyIP Release 7.2 (April 13 – 15) to production. Several problems were remediated in June, and 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 June, the MDM/R was supporting 71 LDCs² in production with a total of 4.48 million enrolled smart meters. The MDM/R processed an average of 3.85 million meter reads daily with a single day peak of 3.86 million meters reporting on June 30, 2012.

In June, the MDM/R processed 100% of meter reads, meter master data updates and billing quantities. All processing was within service level time lines except for:

- Multiple instances where some LDCs' billing requests responses were delayed for a short period due to the implementation of Release 7.2. A solution was deployed to production June 23, 2012 which has increased billing request processing performance.

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.

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 The number of LDCs has been amended to reflect the amalgamation of Chatham Kent Hydro Inc. and Middlesex Power Distribution Company into the new entity, Entegrus Inc.

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 June.

2.4 Training

The SME continues to adjust our training and workshop session offerings to meet the needs of the LDCs. We are planning a training session for LDCs on the MDM/R Operations Manuals (Incident and Problem Management, Change Management, Business Continuity). The schedule dates and venues for this session will be posted on the SME website by the end of July. Please refer to the training page and workshop calendar on the SME website (<http://www.smi-ieso.ca/training>).

2.5 Additional Risks and Issues

Measurement Canada (MC)

The MDM/R functionality known as the Measurement Canada 2011 and Measurement Canada 2012 Part 1 solutions were deployed as part of Release 7.2 the weekend of April 13 to 15. The software delivering 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, which will begin shortly. We will establish an implementation schedule following initial testing and in coordination with other priorities.

LDCs have started to transition to the new billing quantity interface that will deliver register readings for inclusion on customer TOU bills. The SME has asked each production LDC to provide a schedule of when they want the necessary modifications to be made in the MDM/R to enable their transition. Once this is complete, it is each LDC's responsibility to implement its own strategy and plan for migrating their customers to TOU bills that include register readings.

At the end of June, 35 LDCs had transitioned to the new billing interface to enable them to receive register reads for billing. Based on information submitted by LDCs, we expect to have over 70% of the LDCs enabled to receive register reads for billing by the end of August 2012.

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.

Delays in billing quantity request processing

An issue was identified where a number of billing quantity requests requiring exception handling were not being processed prior to the end of their scheduled execution window. A final solution to this problem was tested and deployed to the Production environment on June 23, 2012. Since its deployment there have been no reported recurrences of this issue.

File Transfer Services communication issue

For a brief period File Transfer Services were intermittent due to a telecommunication infrastructure provider problem. The MDM/R was switched to an alternate telecommunication infrastructure provider while services were restored with little impact to LDCs.

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

3.1 June Highlights

By the end of June there were 71 LDCs in production with 4.48 million meters enrolled in the MDM/R.

There were no LDC enrolment activities in June.

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

3.2 MDM/R Cutover Targets³

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.

³ 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.

June 30, 2012	MDM/R Cutover Targets		
	Production LDCs	RPP Eligible Customers	Enrolled in MDMR
Actuals - Based on Production LDCs data			
Pre- Q2 2010	9	2,989,233	2,772,593
Q3 2010	2	157,670	157,670
Q4 2010	4	121,738	121,738
Q1 2011	13	284,369	285,064
Q2 2011	14	289,527	289,623
Q3 2011	16	578,875	571,510
Q4 2011	5	39,072	37,628
Q1 2012	6	193,807	194,644
Q2 2012			
April 2012	1	19,337	19,337
May 2012	1	35,100	31,732
June 2012	0	0	0
Actual Totals for LDCs in Production	71	4,708,728	4,481,539
Projected - Based on enrolment plans submitted to the SME			
Q2 2012	0	0	
Projected Totals for Committed	0	0	
Totals (Actual and Projected)	71	4,708,728	4,481,539
Not Committed - LDCs have not provided enrolment plans			
Schedules not yet determined	2	95,476	
Totals including non-committed LDCs	73	4,804,204	4,481,539
% Complete of total RPP Eligible Customers Enrolled in the MDM/R		93.3%	
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.

As of June 30, 2012	MDM/R Enrolled Meter Counts by Distributor				
Distributor	Total Meters Enrolled through 31-May	Total Meters Enrolled through 30-Jun	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	35,462	35,474	12	35,446	100.1%
Brant County Power *	9,731	9,737	6	9,737	100.0%
Brantford Power *	37,649	37,693	44	37,693	100.0%
Burlington Hydro *	64,635	64,708	73	64,708	100.0%
Cambridge	51,641	51,683	42	51,033	101.3%
Centre Wellington*	6,521	6,521	0	6,521	100.0%
Chapleau*	1,274	1,274	0	1,274	100.0%
CNPI	28,343	28,361	18	28,232	100.5%
COLLUS Power *	15,861	15,884	23	15,884	100.0%
E.L.K. Energy	10,845	10,878	33	10,875	100.0%
Embrun *	1,944	1,945	1	1,945	100.0%
Enersource	185,566	186,556	990	192,492	96.9%
Entegrus*	40,100	40,132	32	40,132	100.0%
Erie Thames*	18,010	18,026	16	18,026	100.0%
Espanola*	3,298	3,298	0	3,298	100.0%
Essex Power*	28,182	28,182	0	28,182	100.0%
Festival Hydro*	19,299	19,337	38	19,337	100.0%
Fort Frances*	3,732	3,733	1	3,733	100.0%
Greater Sudbury	46,433	46,493	60	46,533	99.9%
Grimsby Power*	10,314	10,319	5	10,319	100.0%
Guelph Hydro*	48,282	49,533	1,251	49,533	100.0%
Haldimand County *	21,014	21,021	7	21,021	100.0%
Halton Hills*	20,785	20,793	8	20,793	100.0%
Hearst Power*	2,698	2,698	0	2,698	100.0%
Horizon Utilities *	233,828	233,828	0	233,828	100.0%
Hydro 2000 *	1,199	1,199	0	1,199	100.0%
Hydro Hawkesbury *	5,401	6,537	1,136	6,537	100.0%
Hydro One	1,090,645	1,090,771	126	1,207,285	90.3%
Hydro One Brampton*	136,400	136,877	477	136,877	100.0%
Hydro Ottawa	299,715	300,256	541	303,851	98.8%

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Innisfil Hydro*	14,792	14,820	28	14,820	100.0%
Kenora Hydro*	5,540	5,545	5	5,545	100.0%
Kingston Hydro*	27,010	27,052	42	27,052	100.0%
Kitchener-Wilmot*	87,653	87,724	71	87,724	100.0%
Lakefront Utilities*	9,752	9,761	9	9,761	100.0%
Lakeland Power*	9,605	9,615	10	9,615	100.0%
London Hydro*	146,628	146,923	295	146,923	100.0%
Midland Power*	6,850	6,853	3	6,853	100.0%
Milton Hydro*	29,449	29,819	370	29,819	100.0%
NewmarketTay*	32,974	33,156	182	33,156	100.0%
Niagara Peninsula	48,456	48,547	91	49,930	97.2%
Niagara-on-the-Lake*	7,962	7,985	23	7,985	100.0%
Norfolk Power	18,941	18,970	29	18,874	100.5%
North Bay Hydro	22,552	22,554	2	23,627	95.5%
Northern Ontario Wires *	5,991	5,991	0	5,991	100.0%
Oakville Hydro	63,685	63,707	22	63,012	101.1%
Orangeville Hydro*	11,186	11,206	20	11,206	100.0%
Orillia Power *	12,930	12,973	43	12,973	100.0%
Oshawa PUC *	52,687	52,687	0	52,687	100.0%
Ottawa River*	10,420	10,449	29	10,449	100.0%
Parry Sound *	3,337	3,364	27	3,364	100.0%
Peterborough	23,708	31,732	8,024	35,100	90.4%
PowerStream *	318,214	318,609	395	318,609	100.0%
PUC Distribution *	32,800	32,821	21	32,821	100.0%
Renfrew Hydro *	4,155	4,156	1	4,156	100.0%
Rideau St. Lawrence	5,785	5,409	-376	5,780	93.6%
Sioux Lookout *	2,704	2,709	5	2,709	100.0%
St. Thomas*	16,367	16,380	13	16,380	100.0%
Thunder Bay*	49,550	49,561	11	49,561	100.0%
Tillsonburg*	6,683	6,683	0	6,683	100.0%
Toronto Hydro	612,241	612,241	0	708,772	86.4%
Veridian *	113,696	113,781	85	113,781	100.0%
Wasaga	12,334	12,346	12	12,395	99.6%
Waterloo North *	52,666	52,753	87	52,753	100.0%
Welland Hydro*	22,058	22,067	9	22,067	100.0%
Wellington North *	3,617	3,618	1	3,618	100.0%
West Coast Huron *	3,775	3,778	3	3,778	100.0%
Westario Power	22,302	22,314	12	22,244	100.3%
Whitby Hydro*	40,240	40,275	35	40,275	100.0%
Woodstock Hydro *	15,168	15,172	4	15,172	100.0%
Total Meter Counts	4,466,956	4,481,539	14,583	4,708,728	95.2%
*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.					
Notes: Entegrus includes 2 merged LDCs formerly known as Chatham Kent Hydro Inc. and Middlesex Power Distribution Company.					

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.

No activity is expected over the next three months.

As of June 30, 2012	<i>Distributor Testing Activities with the MDM/R (Three Month Outlook)</i>		
	Jul-12	Aug-12	Sep-12
In Enrolment Testing - SIT			
In Enrolment Testing - QT			
Cutover			

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 June 30, 2012

Q QT - normally 4 weeks
C Cut/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
Reason Code:																				
1. IESO Change																				
2. LDC Plan change																				
3. LDC Not Ready																				
4. LDC Wave Failure																				
5. Update pending																				
	June 4	June 11	June 18	June 25	July 2	July 9	July 16	July 23	July 30	August 6	August 13	August 20	August 27							

RPP Eligible Customers	LDC Name																				
83,909	ENWIN Powerlines Ltd.																				
11,567	Algoma Power Inc. (scheduled for CIS amalgamation with CNPI)																				
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.																				
35,446	Bluewater Power Distribution Corp.																				
9,737	Brant County Power Inc.																				
37,693	Brantford Power Inc.																				
64,708	Burlington Hydro Inc.																				
51,033	Cambridge & North Dumfries Hydro Inc.																				
6,521	Centre Wellington Hydro Ltd.																				
1,274	Chapleau Public Utilities Corp.																				
15,635	CNP - Fort Erie																				
9,075	CNP - Port Colborne Hydro Inc																				
3,522	CNP - EOP																				
15,884	Collus Power Corp																				
1,945	Cooperative Hydro Embrun Inc.																				
10,875	E.L.K. Energy Inc.																				
192,492	Enersource Hydro Mississauga Inc.																				
40,132	Entegrus																				
18,026	Erie Thames Powerlines Corp. (amalgamated with Clinton Power and West Perth Power on June 1, 2011)																				
3,298	Espanola Regional Hydro Distribution Corp.																				
28,182	Essex Power Lines Corp.																				
19,337	Festival Hydro Inc.																				
3,733	Fort Frances Power Corp.																				
49,533	Guelph Hydro Electric Systems Inc.																				
46,533	Greater Sudbury Hydro Inc.																				
10,319	Grimsby Power Inc.																				
21,021	Haldimand County Hydro																				
20,793	Halton Hills																				
2,698	Hearst Power Distribution Company Ltd																				
233,828	Horizon Utilities Corporation																				
1,199	Hydro 2000 Inc.*																				
6,537	Hydro Hawkesbury Inc.																				
1,207,285	Hydro One																				
136,877	Hydro One Brampton Networks Inc.																				
303,851	Hydro Ottawa Limited																				
14,820	Innisfil Hydro Distribution Systems Ltd.																				
5,545	Kenora Hydro Electric Corp Ltd																				
27,052	Kingston Hydro Corporation																				
87,724	Kitchener-Wilmot Hydro Inc.																				
9,761	Lakefront Utilities Inc.																				
9,615	Lakeland Power Distribution Ltd.																				
146,923	London Hydro																				
6,853	Midland Power Utility Corp																				
29,819	Milton Hydro																				
33,156	Newmarket Hydro Ltd./Tay Hydro																				
49,930	Niagara Peninsula Energy Inc. (includes Peninsula West @ 14,351)																				
7,985	Niagara-on-the-Lake Hydro Inc.																				
18,874	Norfolk Power Distribution Inc.																				
23,627	North Bay Hydro Distribution Ltd																				
5,991	Northern Ontario Wires Inc.																				
63,012	Oakville Hydro Electricity Distribution Inc.																				
11,206	Orangeville Hydro Ltd. (includes Grand Valley (659))																				
12,973	Orillia Power Distribution Corp.																				
52,687	Oshawa PUC Networks Inc.																				
10,449	Ottawa River Power Corp.																				
3,364	Parry Sound Power Corp.																				
35,100	Peterborough Distribution Inc.																				
318,609	PowerStream Inc																				
32,821	PUC Distribution Inc.																				
4,156	Renfrew Hydro Inc.																				
5,780	Rideau St. Lawrence Distribution Inc.																				
2,709	Sioux Lookout Hydro																				
16,380	St. Thomas Energy Inc.																				
49,561	Thunder Bay Electricity Distribution Inc.																				
6,683	Tillsonburg Hydro Inc.																				
708,772	Toronto Hydro Electric Services Ltd.																				
113,781	Veridian Connections																				
12,395	Wasaga Distribution Inc.																				
52,753	Waterloo North Hydro Inc.																				
22,067	Welland Hydro-Electric System Corp.																				
3,618	Wellington North Power Inc.																				
3,778	West Coast Huron Energy Inc.																				
22,244	Westario Power Inc.																				
40,275	Whitby Hydro Energy Services Corp.																				
15,172	Woodstock Hydro Services Inc.																				
4,708,728	Production total customer count																				
4,804,204	All LDC total customer count																				