



Power to Ontario. On Demand.

IESO SENIOR MANAGEMENT UPDATE

To: Stakeholder Advisory Committee
Date: August 4, 2011
Subject: Meter Data Management & Repository (MDM/R) and Time-of-Use Billing Briefing Note

Information Item

Smart Metering Initiative Progress

The IESO continues to effectively support distributor enrolment and the implementation of time-of-use billing under the Ontario Energy Board's TOU mandate. The Meter Data Management and Repository (MDM/R) system is actively processing smart meter data and producing time-of-use (TOU) billing quantities for customer invoices:

- The MDM/R is supporting 51 LDCs, 3.6M meters in production, and processing reads from over 2.8M meters on a daily basis. By the end of June over 2.8M customers were on time-of-use billing.
- Based on progress to date and LDCs submitted plans, we expect that the MDM/R will be supporting most of the LDCs with over 4M meters enrolled by the end of the year.

The IESO is actively engaged with the distributors to facilitate their enrolment process and to help them meet their mandated TOU dates. Through the reallocation of staff and tuning of internal procedures over the last few months, the IESO was able to support 11 LDCs who all completed their enrolment testing and cutover to the production MDM/R environment in May.

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.

MDM/R Performance

The MDM/R continues to operate reliably and efficiently, and did so in April through July except for one unscheduled outage on April 26. This outage was a result of a firmware issue associated with the data storage system, which has been corrected. Following corrective measures, system processing was resumed on April 27 and the MDM/R was restored to normal service levels on April 29.

We continue to monitor, project and adjust our resourcing to be able to support more LDCs and their processing volumes. The IESO remains confident that with ongoing tuning, planned infrastructure improvements, and collaborative support of LDCs, that

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.

Smart Metering Entity (SME) Governance

The IESO had meetings with the EDA SME Transition Committee in April and July to provide an update on the Smart Metering Initiative, MDM/R and discuss SME governance matters.

The MDM/R Operations Working Group, representing the LDCs in and soon to be in production with the MDM/R, has met on eight occasions and is providing valuable input in the operation of the MDM/R.

Audit of MDM/R Operations

PricewaterhouseCoopers (PwC) has begun their field work for the audit period April 1, 2011 to September 30, 2011.

Measurement Canada

The IESO has regularly communicated progress and status updates, including target deployment schedules to the LDCs, Ministry of Energy, the OEB and Measurement Canada. In summary, all required system changes for the Measurement Canada 2011 Solution have now been received and have been under test for several months. Key elements of the most recent deployment schedule are highlighted below:

- The initial portions of core EnergyIP product functionality required for the Measurement Canada 2011 Solution were delivered at the end of January with EnergyIP Release 7.2 and the remaining functionality came in March and May.
- Early testing facility was made available to LDCs to enable testing of the new Standard XML Billing Interface.
- IESO and LDC testing identified a number of defects which are currently being addressed. The need to wait for the service packs has caused the back of the schedule to be revised. Although LDCs are able to begin testing the full breadth of the Measurement Canada 2011 Solution earlier than originally planned, some LDCs that anticipated a partial solution implementation in production by mid-August that included the new Standard XML Billing Interface, will now have to wait several months for its availability.
- The revised approach projects availability into production to occur during the usual freeze on IT changes in December and early January. We have therefore revised the targeted deployment of the full R7.2 and MC 2011 Solution from November 2011 to mid/late January 2012.

The combined Release 7.2 and Measurement Canada 2011 Solution was promoted to the Sandbox environment for LDC testing on July 12. Despite the identified defects that must be fixed before production use, this provides a viable test platform. We encourage LDCs to begin testing as early as possible to be adequately prepared when this release is promoted to production.



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The IESO will continue to work closely with the LDCs as the solution rolls out and they prepare their systems. Workshops were held on July 13 and July 27 to provide LDCs, their agents and consultants detailed insight into the new rules and business implications for operation under EnergyIP Release 7.2 and the Measurement Canada 2011 Solution.

The IESO and eMeter have begun discussions focused on the possibility of an earlier delivery of one or more elements of the Measurement Canada 2012 Solution.