



Power to Ontario. On Demand.

IESO SENIOR MANAGEMENT UPDATE

To: Stakeholder Advisory Committee
Date: August 19, 2010
Subject: Meter Data Management & Repository (MDM/R) and Time-of-Use Rate Briefing Note

Information Item

Provincial MDM/R Production System Status and Operations

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. It continues to operate reliably with the functions required to support the TOU rollout and increased LDC activity. The MDM/R is operating under contracted service levels, and is monitored and tuned so that it will continue to support current and future levels of LDC activity.

LDC Schedule and Status for Interfacing with the MDM/R

Ten LDCs, representing 2.9 million customers, are enrolled in the production system. As of July 31, over 1.2 million of these ten LDCs' meters have been enrolled in the MDM/R. By the end of June, 785K customers were on time of use billing. Most of the remaining LDCs are in various stages of preparations and enrolment with the MDM/R.

OEB Determination to Mandate Implementation of Time of Use Billing

The OEB issued its determination to mandate TOU implementation on August 4th. The IESO indicated that the MDM/R system and the SME do not pose any impediments to LDC enrolment and TOU implementation in its July 20th response to the OEB, after the OEB requested clarification on certain concerns raised in the determination comments. The IESO indicated:

- It had expanded the SME team since 2009, particularly those that work with LDCs on MDM/R testing and enrolment
- IBM added infrastructure during the same period to accommodate the TOU acceleration, increased its staff and engaged technical experts from across the company to review the system
- Recent simulations of the MDM/R's capacity indicate that, subject only to the timely receipt of meter read data of appropriate quality, a processing rate of 500 meters/second, or 1.8 million meters/hour, is achievable; such throughput would deliver the final volumes of processed data by the intended times.

The Board will require the SME to regularly report on LDC integration progress and confirm the ongoing readiness and performance of the MDM/R.

LDC Support and Training Requirements

To support the Board's Determination and the anticipated increased levels of LDC support requirements, the IESO has the following resources available:

- Registration and enrollment staff to guide LDCs from the start of registration through unit testing, enrollment testing and cutover to production operations. Each LDC is assigned an enrollment manager who will be their primary contact and advocate through their registration and enrollment process;
- Training, workshop and awareness sessions are conducted regularly and additional sessions can be arranged based on LDC needs;
 - About 12 LDCs have attended the road shows and technical sessions this year. Although we have cancelled sessions due to insufficient registrations, we are responding to and providing one on one support to LDCs as required.
 - Held three LDC MDM/R panel sessions featuring Hydro One and Veridian
 - GUI training and project planning sessions continue to be held monthly.
- Introductory materials including guides and templates;
- Standards and technical reference material;
- SME website (www.smi-ieso.ca), with new SME website scheduled to launch this month to provide enhanced training and awareness support;
- Small business online tool ("Time-of-Use at Work") is schedule to launch this month;
- Ten Smart Meter Lane generated ~7,790 page views in July and is integrated in 32 LDC websites; and,
- "Toward Time-of-Use" SME newsletter is now issued to more than 660 industry contacts.

Measurement Canada

In June the Cumulative Register Read Working Group (CRRWG) presented its proposed solution to Measurement Canada (MC) for including register reads on the customer's bill and reconciling consumption data to the difference between the register reads. MC rejected the proposal because the period of the consumption data used for billing didn't always exactly align with the times of the register reads.

A subcommittee of the CRRWG has been formed to undertake the work and schedule required to formulate the next solution proposal. Nominations came from EDA. Member organizations are: Chatham-Kent, Hydro One, Hydro Ottawa, London Hydro, PowerStream, Thunder Bay and Veridian.

The IESO has been holding design discussions with eMeter since early July to develop a solution that will assist the LDCs in meeting the MC requirements.



Power to Ontario. On Demand.

The CRRWG has been updated on progress of the design discussions with eMeter, and began working through the revised requirements of the new solution.

eMeter's presentation of the high level design of solution potential way forward to the working group on August 11th was well received. Members of the working group indicated the new solution appeared to support meeting the Measurement Canada requirements. Further work on the high level design will continue into mid September, culminating with a presentation to Measurement Canada on the complete new solution in late September.