



Power to Ontario. On Demand.

IESO SENIOR MANAGEMENT UPDATE

To: Stakeholder Advisory Committee
Date: October 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.

The IESO is confident that the MDM/R will accommodate the growing number of LDCs and meters that will be enrolled over the next 12 months, as the Province moves toward full implementation of time-of-use billing in accordance with the Smart Metering Initiative.

Smart Metering Entity Governance and SME License

IESO and the Electricity Distributors Association (EDA) have signed a Memorandum of Understanding (MOU) around SME governance; the timing of the various implementation stages of the SME governance model is pending regulatory approvals.

The Ontario Energy Board has extended IESO's interim SME license to March 2011.

The MDM/R Operations Working Group has been established to represent the interests of MDM/R service recipients and provide input and advice to the IESO in the operation of the MDM/R. The IESO appointed EDA nominated representatives from Hydro Ottawa, PowerStream, Chatham-Kent, Newmarket, Veridian, Hydro One and Horizon to form the MDM/R Operations Working Group. The participating LDCs are clients of all the prominent Advanced Metering Infrastructure (AMI) vendors used in the province, including Elster, Sensus, SmartSynch, Tantalus and Trilliant. The first meeting of the Group was hosted by PowerStream on October 13, 2010.

LDC Schedule and Status for Interfacing with the MDM/R

Eleven LDCs, representing 3 million customers, are enrolled in the production system. As of September 30, over 1.7 million of these eleven LDCs' meters have been enrolled in the MDM/R. By the end of September, 1.1 million customers in the Province were on

time of use billing. Most of the remaining LDCs are in various stages of preparations and enrolment with the MDM/R.

Many of the LDCs' planned activities have slipped from Q4 2010 to Q1 and Q2 2011, and the enrolment plans have been subject to significant changes. The IESO is working with LDCs to support their changing implementation plans.

LDC Support and Training Requirements

The IESO continues to make resources available to LDCs in support of their time of use implementation plans. The IESO added additional resources in September to support LDCs enrolling with the MDM/R and in operation. We continue to monitor LDC support and training requirements and make adjustments if necessary.

The fall training schedule was updated based on feedback received from a survey of LDCs (please refer to <http://www.smi-ieso.ca/training>). To date, 70 of 76 LDCs have attended at least one of the training and awareness sessions and 47 have attended at least 2 sessions.

In August, the IESO launched a new Smart Metering Entity web-site (www.smi-ieso.ca) to support LDC enrolment and operations needs.

In September, the IESO launched the Time-of-Use at Work Tool for Small Businesses (www.ieso.ca/smallbiz) to help business owners understand time-of-use (TOU) electricity rates and identify potential savings resulting from load-shifting and/or conservation efforts.

Measurement Canada

The Cumulative Register Read Working Group (CRRWG) and its Design Sub-Committee continued to work through the design of the MDM/R portion of the solution to the issues raised by Measurement Canada. These issues require the cumulative register reads to be on all time-of-use bills and the total energy consumption reported on the bill must equal the difference between the cumulative register reads at the beginning and end of the billing period.

After extensive consultations with the Ministry of Energy, LDCs, EDA and Measurement Canada, on September 15, 2010 the LDC members of the CRRWG agreed that the MDM/R Universal Solution conforms with Measurement Canada's requirements and is technically viable. On October 5, 2010 Measurement Canada confirmed that the proposed solution was satisfactory for addressing their concerns:

- the solution will work for all the AMI technologies deployed in the province;
- it will provide cumulative register reads to the LDCs for inclusion on customers' bills; and
- it will reconcile the total energy consumption from the hourly interval data or the three time-of-use buckets to be equal to the difference between the cumulative register reads at the beginning and end of the billing period.



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The IESO published the interface information necessary for LDCs to plan and develop changes to their own systems. The IESO also held a workshop on October 5 for over 100 representatives of LDCs and their agents on the new interface specifications.

The IESO understands that LDCs are assessing the required changes to their systems and processes to comply with Measurement Canada requirements.