Ontario Smart Metering System Implementation Program (SMSIP)

SAC Information Item

Toronto, Ontario
April 4, 2007
The Smart Metering System – Ontario Government’s Conceptual Model

Source: Ontario Ministry of Energy
SMSIP – IESO’s Role

• July 26, 2006: the Ministry of Energy announced the IESO as the Smart Metering System Implementation Program Coordinator
• This role was formalized through regulations made on September 22, 2006
• The role includes:
  1. Direct responsibility for the procurement of the Meter Data Management/Repository (MDM/R) function
  2. Coordination and reporting of the various program activities between affected parties
  3. Surrogate Smart Metering Entity (SME) at go-live
SMSIP - Progress to Date

MDM/R Focus

• MDM/R Specification Documents
• Development of RFP for turnkey MDM/R contract
• RFP response evaluation
• Negotiation and completion of MDM/R contract

• MDM/R Detailed Design Document and Technical Interface Specifications
• Draft VEE Standard for the Ontario Smart Metering System
SMSIP - Program Responsibilities

- System contract management (IESO)
- Design Authority (IESO)
- LDC Liaison (IESO)
- Program Coordination (IESO)
- Product Development (OPA & IESO Line)
- Commercial Arrangements (Ministry)
- Communication (Ministry)
- Initial Operation (IESO SME)
- Rate Design and Setting (OEB)
Impacts on IESO

Financial
• Costs accounted separately from rest of IESO
• Full cost recovery from rate structure to be defined by MoE
• Deferral account will operate during SME tenure

Project Resources
• Team of 9
  – 3 Regular staff (2 backfilled by temps in line)
  – 1 Temporary staff
  – 5 Consultants

Operation
• Outsourced
Questions ?
MDM/R Overview

- MDM/R is a storage and data management system for Smart Meters that conform to the Ontario Functional Specification for an Advanced Metering Infrastructure – Ontario Regulation 425/06, July 14, 2006
- Provides Synchronization with LDC’s Systems to receive and process Meter Read data
- Receives and Validates the Meter Read data from Advanced Metering Control Computers
- Provides Estimating capabilities to address invalid or missing data
- Provides Editing capabilities for use by the LDCs
- Produces Billing Quantity data
- Provides Web Services to LDCs
- Provides IVR capability