



# Smart Meter Initiative

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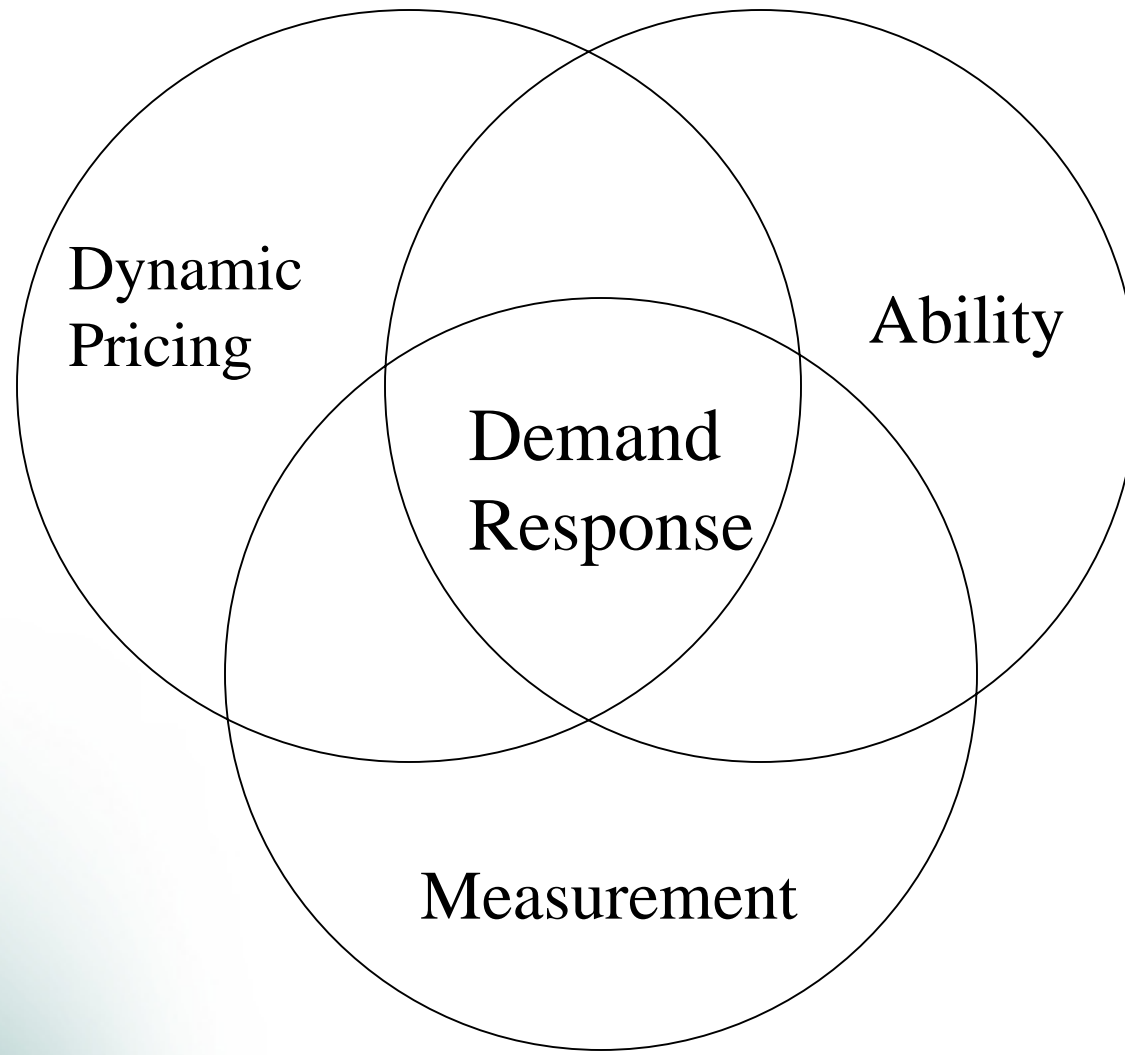
## Working Groups

ONTARIO ENERGY BOARD  
COMMISSION DE L'ÉNERGIE DE L'ONTARIO

# Objectives

- Government of Ontario
  - Conservation culture
  - Safety of supply
  - Realistic, stable commodity prices
- Ontario Energy Board
  - Respond to the Directive
  - Develop the plan
  - Linked to other Board initiatives:
    - Regulated Price Plan
    - Distributor Conservation and Demand Management
    - 2006 Electricity Distribution Rates

# Demand Response

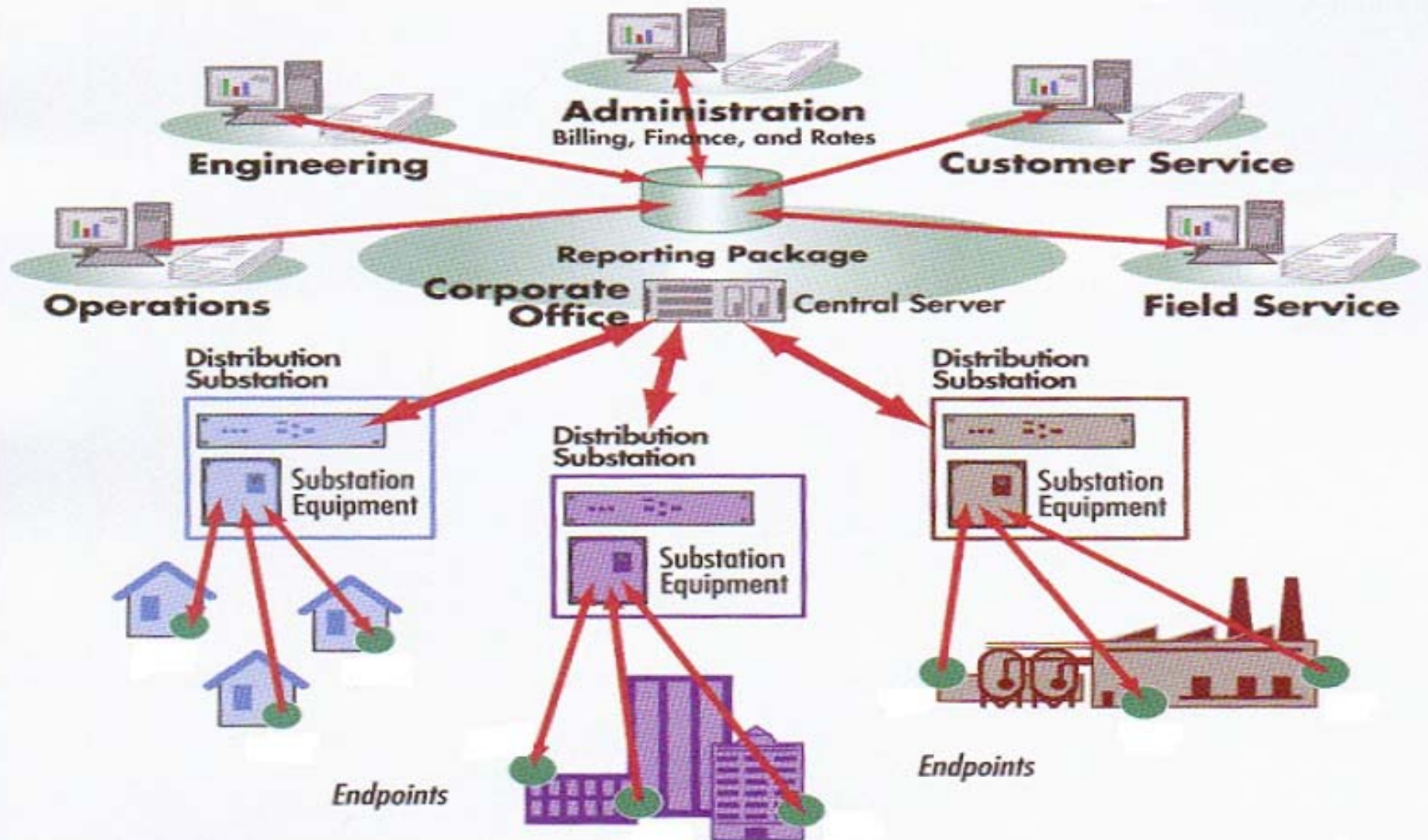


# What is a Smart Meter?

- Meter that adds timing to usage information
  - Interval or Time-of-Use
- Communication network for data
  - Automatic Meter Reading
- Feedback to consumer and delivery system
  - Billing, Daily, Real-Time, Display
- Control
  - Cycling, limiting, curtailment



# Example of Network Configuration



# Minister's Directive

- Plan to meet the targets
- 800,000 by 2007
- All customers by 2010



# Minister's Directive

- Implementation plan provided for Minister's approval by Feb 15
- Address:
  - Competitiveness in provision and supply
  - Installation priorities
    - Over 50 kW
    - New homes
  - Cost recovery
    - Distributor operational savings

# Directive Technical Requirements

- Meters
  - Measure and indicate prescribed periods
  - Adaptable to foreseeable rates without removal
- Reading
  - Must be capable of remote meter reading
  - Would like multiple meters
- Data storage
  - Must be compatible for billing and reporting
- Data provision
  - Must be capable of daily consumer feedback
  - Would like RT feedback and access to 3<sup>rd</sup> party
  - Bi-direction communication unless reason not



# Minister's Directive

- Address need / effectiveness of non-commodity time-of-use rate structures to support implementation
- Barriers and mitigation
- Other



# Ontario Energy Board Process

- **Phase I - Interested stakeholders**
  - Submissions on staff discussion paper
  - Will be sent information on process
- **Phase II - Working Groups**
  - 5 to 10 meetings over 5 weeks
  - 4 Groups of approx. 10 each
  - Distributors, vendors, consumer groups, special interest
  - Meeting notes to be posted on OEB web-site
- **Phase III – All**
  - Submissions on draft plan

# Key dates

<b>Activity</b>	<b>Time Frame</b>
Working Groups	Sep 1 to Oct 8
Stakeholder comment	November
Plan provided to Minister	February 15



# Meter Inventory

- Consultant project by survey and questionnaire
- Current status by distributor:
  - number of meters by customer group and type of meter,
  - depreciated value of installed meters and meter inventory,
  - reading method, installation and service arrangements,
  - meter turnover rates and new installations,
  - annual quantity of seal expiries,
  - what other services does the distributor read (e.g. water or gas); and
  - what type of CIS system do they have.
- For October

# Working Groups

- Technical Requirement for Meters
- Technical Requirements for Meter Communication and Data Interfaces
- Planning and Strategy
- Cost Considerations

# Role of the Working Groups

- Develop content for Board consideration
- Identify options
- Reach consensus if possible
- Co-operate for progress



# Meters

- Leader: Allen Stanbury
- Technical requirements
- Must:
  - Measure and indicate prescribed periods
  - Adaptable to foreseeable rates without removal
- Measurement Canada



# Meter Communications and Data Interface

- Leader: Carolyn Kinsman
- Technical Requirements
  - Reading
  - Data storage
  - Data provision
  - Control
- Standardization and open architecture
  - Customer class
  - Geography





# Planning and Strategy

- Leader: Armen Kulidjian
- Competitiveness
- Interim Targets and Installation Priorities
- Compliance Structure
- Purchase strategy
- Public education and business processes



# Cost Consideration

- Leader: Peter Faye
- Cost recovery methodology
  - Meters
  - Networks
  - Meter Data Management
  - CIS
  - Settlement
- Distributor operational savings
  - Linked to technical requirements



# Smart Meter Initiative

- Comments to
- SmartMeters @ [oeb.gov.on.ca](mailto:oeb.gov.on.ca)

