



**Ontario Energy Board**

Commission de l'énergie de l'Ontario

# **Smart Grid Working Group Meeting 2: Policy Objectives**

March 15, 2011

# Agenda

9:30 – 9:40	Welcome, Review of Agenda and Introduction of Technical Consultant	Board Staff
9:40 – 9:50	Previous Meeting Summary	Board Staff
9:50 – 10:00	Overview of Policy Objectives	Board staff
10:00 – 10:45	Discussion of Objectives i) and ii)	All/Deloitte
10:45 – 11:00	BREAK	
11:00 – 12:15	Discussion of Objectives iii) and iv)	All/Deloitte
12:15 – 1:00	LUNCH	
1:00 – 2:30	Discussion of Objectives v) - vii)	All/Deloitte
2:30 – 2:45	BREAK	
2:45 – 4:30	Discussion of Objectives viii) - x)	All/Deloitte
4:30 – 4:45	Review of day and overview of next meeting	Board staff



# What We Heard

Question	Summary Answer	Application to Today
1. What is appropriate guidance?	More specifics on the Minister's objectives	Today's focus on policy objectives
2. What isn't smart grid?	Should emerge from objectives; need concrete tests	Try to make objectives as operational as possible
3. How to address privacy and security?	Privacy by Design a benchmark; plus audit and certification	Explore co-ordinated approach to audit & certification
4. How can customer control best aid objectives?	Access to data and customer communications are key	Focus on tradeoffs between customer value and security
5. What investments best preserve future flexibility?	Focus on getting processes right	Co-ordination may be of value
6. What level of detail for business cases?	Needs to be developed through review of specific objectives	Try to identify suitable level of detail for operationalizing objectives
7. What is a good classification of benefits?	Staff proposal needs more work, e.g. capture of societal benefits	Identify concrete benefits for operationalized objectives
8. What is the demarcation point for behind-the meter services?	Different views as to "hard" and "soft" lines; may be different for data versus electricity	Further discussion in context of objectives
9. What roles for OEB and industry re: standards?	Focus on the "what" not the "how"	Look for "what" not "how" in relation to objectives.

# Policy Objectives Overview

- Apply to the all of the substantive objectives
- Board staff seeking **technical** assistance in understanding these objectives
- What technological issues are raised by the objectives?
- How may the objectives be given **operational** meaning?

# Objectives i) and ii)

- Efficiency
  - Improve efficiency of grid operation, taking into account the cost effectiveness of the electricity system
- Customer Value
  - The smart grid should provide benefits to electricity customers

# Objectives iii) and iv)

- Co-ordination
  - The smart grid implementation efforts should be co-ordinated by, among other means, establishing regionally co-ordinated Smart Grid Plans (“Regional Smart Grid Plans”), including co-ordinating smart grid activities amongst appropriate groupings of distributors, requiring distributors to share information and the results of pilot projects, and engaging in common procurements to achieve economies of scale and scope
- Interoperability
  - Adopt recognized industry standards that support the exchange of meaningful and actionable information between and among smart grid systems and enable common protocols for operation. Where no standards exist, support the development of new recognized standards through co-ordinated means

# Objectives v) – vii)

- **Security**
  - Cyber-security and physical security should be provided to protect data, access points, and the overall electricity grid from unauthorized access and, malicious attacks
- **Privacy**
  - Respect and protect the privacy of customers. Integrate privacy requirements into smart grid planning and design from an early stage, including the completion of privacy impact assessments
- **Safety**
  - Maintain, and in no way compromise, health and safety protections and improve physical safety wherever practical

# Objectives viii) – x)

- **Economic Development**
  - Encourage economic growth and job creation within the province of Ontario. Actively encourage the development and adoption of smart grid products, services, and innovative solutions from Ontario-based sources
- **Environmental Benefits**
  - Promote the integration of clean technologies, conservation, and more efficient use of existing technologies
- **Reliability**
  - Maintain reliability of the electricity grid and improve it wherever practical, including reducing the impact, frequency and duration of outages
- **Other such factors as are relevant in the circumstances**

# Next Meeting – March 29

- Focus on the Directive's Customer Control Objectives
- A complete agenda will be provided in advance

