



Ontario Energy Board

Commission de l'énergie de l'Ontario

Smart Grid Working Group Meeting 4: Power System Flexibility Objectives

April 12, 2011

Agenda

9:30 – 9:35	Welcome	Board Staff
9:35 – 9:40	Previous Meeting Summary	Board Staff
9:40 – 9:45	Overview of Power System Flexibility Objectives	Board staff
9:45 – 10:45	Distributed Renewable Generation Objective workshop (with IESO presentation)	All/IESO
10:45 – 11:00	BREAK	
11:00 – 12:15	Distributed Renewable Generation Objective workshop (cont.) and Visibility Objective workshop	All
12:15 – 1:00	LUNCH	
1:00 – 2:45	Visibility Objective workshop (cont.) and Control and Automation Objective workshop	All
2:45 – 3:00	BREAK	
3:00 – 4:30	Control and Automation Objective workshop (cont.) and Quality Objective workshop	All
4:30 – 4:45	Review of day and overview of next meeting	Board staff



What We Heard

Policy Objective	Key Observations
1. Access	While most members agree that third parties should have access to meter data the nature of the relevant data for each customer class, now and in the future remains in need of definition
2. Visibility	Visibility requirements depend on the intended use of the data to be displayed Any Guidance should be careful not to preclude future applications.
3. Control	Information requirements of customers are the foundation for control. The most cost-effective means of giving access to this information should be sought while balancing current and future needs and capabilities.
4. Participation in Renewable Generation	Customer driver values are diverse and include environmental, marketing, self-sufficiency as well as financial. Investments in the integration of renewable generation into grid operation should be aimed to maximize participation.
5. Customer Choice	Smart grid potentially provides customers with a wide range of options but choice will depend on the varying capabilities of distributors.
8. Education	There may be a need for a provincial body to ensure consistent communications while reflecting the varied nature of local needs and capabilities.

Power System Flexibility Objectives Overview

- **Directive:** “For the purpose of “enabling the increased use of renewable energy sources and technology, including generation facilities connected to the distribution system,” in accordance with subsection 2(1.3) (a) of the Electricity Act, and recognizing the need for flexibility on the integrated power system, the following objectives apply:” (on subsequent slides)

Distributed Renewable Generation Objective

- Enable a flexible distribution system infrastructure that promotes increased levels of distributed renewable generation.

Visibility Objective

- Improve network visibility of grid conditions for grid operations where a demonstrated need exists or will exist, including the siting and operating of distributed renewable generation.

Automation and Control Objective

- Enable improved control and automation on the electricity grid where needed to promote distributed renewable generation. To the extent practical, move toward distribution automation such as a self-healing and self-correcting grid infrastructure to automatically anticipate and respond to system disturbances for faster restoration.

Quality Objective

- Maintain the quality of power delivered by the grid, and improve it wherever practical.

Next Meeting April 27

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

