



Ontario Energy Board

Commission de l'énergie de l'Ontario

Smart Grid Working Group Meeting 5: Adaptive Infrastructure Objectives

April 27, 2011

Agenda

10:00 – 10:05	Welcome	Board Staff
10:05 – 10:10	Previous Meeting Summary	Board Staff
10:10 – 10:15	Overview of Adaptive Infrastructure Objectives	Board staff
10:15 – 11:15	Smart Meter Lessons Learned/Forward Compatibility workshop (with Measurement Canada presentation)	All/ Measurement Canada
11:15 – 11:30	BREAK	
11:30 – 12:30	Smart Meter Lessons Learned/Forward Compatibility workshop (cont.) and Electric Vehicles/Flexibility workshop	All
12:30 – 1:15	LUNCH	
1:15 – 2:45	Electric Vehicles/Flexibility workshop (cont)	All
2:45 – 3:00	BREAK	
3:00 – 4:30	Adaptive Infrastructure Objectives workshop	All
4:30 – 4:45	Review of day and overview of next meeting	Board staff



What We Heard

Policy Objective	Key Observations
1. Distributed Renewable Generation	Board is advised to avoid being prescriptive but focus on interoperability. Storage is an overlooked issue and not only for DG. Cost recovery that provides appropriate incentives is important. LDCs should have some ability to dispatch DG. IRP is also a valuable tool.
2. Visibility	Board should concentrate on functional not technical visibility requirements. Visibility is another good area for cooperation. Cost recovery should be clear about responsibility for data. Conveying grid information to customers is important too, e.g. regarding DG location.
3. Control and Automation	While interoperability is key the group is divided on the prescription of standards. Optimal use of control and automation varies with LDC characteristics: co-operation may be valuable. Board might consider specifying minimum levels of control and automation but in terms of functions not technology.
4. Quality	Emphasis should be on maintaining power quality as increased DG is connected. Group is divided on issues of allowing LDCs to develop “premium” services and of setting metrics. High power quality levels are more important for commercial and industrial customers.

Adaptive Infrastructure Objectives Overview

- **Directive:** “For the purpose of *accommodating the use of emerging, innovative and energy-saving technologies and system control applications*, the following objectives apply:” (on subsequent slides)

- Provide flexibility within smart grid implementation to support future innovative applications, such as **electric vehicles** and **energy storage**.

Forward Compatibility

- Protect against technology lock-in to minimize stranded assets and investments and incorporate principles of modularity, scalability and extensibility into smart grid planning.

Encourage Innovation

- Nest within smart grid infrastructure planning and development the ability to adapt to and actively encourage innovation in technologies, energy services and investment/business models.

- Encourage information sharing, relating to innovation and the smart grid, and ensure Ontario is aware of best practices and innovations in Canada and around the World

Next Meeting May 10

- Any suggested topics
- Use cases “reality check”
 - Staff may request the group to reconvene as Discussion Paper is drafted
- A complete agenda will be provided in advance

