



Ontario Smart Grid Forum: Support Presentation

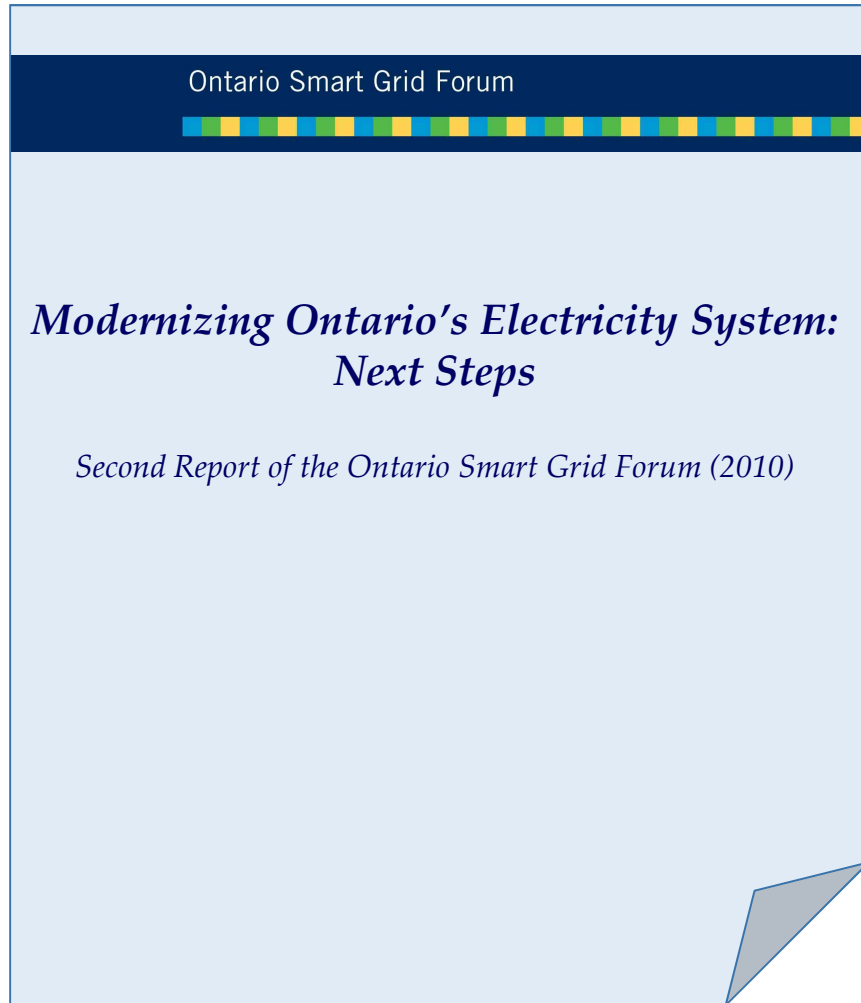
Tuesday, March 8th 2011



Agenda Item # 1

S.G.F. Minutes

- **January 17th 2011 minutes:**
 - no further comments received.
 - Recommended as **FINAL**
- **DRAFT February 8th 2011 minutes** circulated for review.
 - Recommended comment deadline: Tues., Mar. 22nd



1. Summary of activities to-date including feedback from the Working Group
2. Structured review of preliminary draft
3. Implications for the 2011 work plan of the Forum, Corporate Partners Committee and the Working Group
4. Review draft, high-level roll-out plan

- **January 10th:** Working Group review of 2009 Forum recommendations and proposals for new recommendations.
- **January 17th:** Forum discussion of report format and audience.
- **February 8th:** Forum review and refinement of recommendations.
- **March 1st:** Working Group review of a preliminary draft of the report.

- Current draft (dated March 4th) reflects initial input from the Working Group and the revised SGF recommendations as they stood after the February 8th Forum meeting.
- Approximately 33 pages of content implies a paring-down exercise to achieve original target for report length.
- Some text in the current draft is intended for “outtake boxes” citing specific examples.
- Graphics, formatting, etc. to follow in a later draft.

EXECUTIVE SUMMARY

SECTION 1: Realizing the Smart Grid

- PROGRESS OF FORUM
- PROGRESS OF GOVERNMENT AND AGENCIES
- PROGRESS OF UTILITIES AND BROADER COMMUNITY
- NORTH AMERICAN TRENDS
- MEASURING SMART GRID SUCCESS

SECTION 2: Next Steps and Challenges

- PRIVACY/SECURITY
- THIRD PARTY ACCESS
- INFORMATION MANAGEMENT
- ENGAGING THE CONSUMER
- EV INTEGRATION
- STORAGE INTEGRATION
- STANDARDS

SECTION 3: Smart Grid Costs & Benefits

- CONSUMER TECHNOLOGIES
- ELECTRIC VEHICLES
- INNOVATION & ECONOMY
- DISTRIBUTION
- TRANSMISSION
- COMMUNICATIONS
- ENABLING DISTRIBUTED GENERATION

CONCLUSIONS

- **Executive Summary and Conclusions:**
 - Working group suggested 3 major “themes” to help draw together the various strands of the report:
 1. The smart grid is happening now
 2. Customer choice is expanding (and with it, their demands on the functionality of the electricity system).
 3. Specific challenges have been identified by the Forum in order to meet customer expectations.

Section 3: ('Smart Grid Costs and Benefits')

- Focus of the Working Group's review given previous work done in this area
- Positioning of costs alongside the associated benefits was seen as critical.
- In keeping with the key “themes” of the report, the projected public sector investment in the smart grid needs to be properly portrayed as being customer-driven.

Key questions for today's review

- Are there missing elements from the report? - **or** - too much emphasis on the wrong topics?
- Does the report have adequate focus on the key messages and themes that need to be conveyed?
- Does the report provide adequate follow-up to the Forum's 2009 recommendations?
- Is there adequate mention of the interest of commercial and industrial customers?

Key questions for today's review

- Does the report adequately reflect the Forum's undertaking to address the Minister's request regarding smart homes and broader consumer acceptance of the smart grid, TOU, etc.?
- What areas of the report could be pared-down to meet the original, target length? Is the original target length still appropriate?



- The report makes numerous references to potential work activities of the Forum, the Working Group and the Corporate Partners Committee for 2011...

1. *“The Forum should identify and help resolve issues related to near real-time and after-the-fact smart meter data access by third parties, consistent with the development timelines established by the Smart Home Roadmap.”*

(draft report, “conclusions” section)



- 2. “The Forum should facilitate the gathering of data to support the early benchmarking and ongoing tracking of smart grid “Success Metrics” developed in collaboration with the Corporate Partners Committee. These metrics will be used to assess, over time, whether smart grid costs are delivering promised benefits.”*

(draft report, “conclusions” section)



3. *“The Forum should examine the role of LDCs and competitive third-party service providers in each area of the smart grid value chain.”*

(draft report, “conclusions” section)

4. *“The Forum should investigate and, where applicable, develop specific recommendations to help facilitate the role of aggregators to help unlock the benefits of the smart grid.”*

(draft report, “conclusions” section)



5. *“The Forum should identify gaps in knowledge specific to the development of the smart grid in Ontario and, where applicable, advocate studies to fill those gaps.”*

(draft report, “conclusions” section)



6. *“Industry and government should work toward meeting the development timelines established in the Smart Home Roadmap to bring greater control, choice, market participation and other benefits to electricity consumers. **The Forum** should facilitate timely development.”*

(draft report, “engaging the consumer” section)

- Other potential areas, where the Forum is not directly mentioned in the report recommendations:
 - Helping to ensure the Forum’s recommendation regarding “Privacy by Design” principles carry forward towards implementation
 - Continue to monitor the development and implementation of interoperability standards and recommend specific actions where necessary
 - Monitor progress of Ontario’s electric vehicle and energy storage activities

Discussion Item:

Roll-out plan proposal



- Position the report as a thoughtful and carefully researched view of the smart grid proposition in Ontario
- Demonstrate the broad spectrum of public and private sector participants in the report – and that this is a comprehensive view of smart grid evolution
- Underscore Ontario’s leadership position in smart grid capabilities and the need for greater understanding about smart grids as a whole

- Target: April 4
 - Press release issued to Ontario media and national/international press covering smart grid/clean energy
 - Report available on pdf format as well as iBooks. Hard copies only available on demand.
 - Look and feel will be consistent with previous report.
 - IESO to co-ordinate media enquiries, directing interview requests to Forum/CPC members
 - Related materials:
 - Backgrounder
 - Questions and Answers
 - Powerpoint template

- Draft press release/materials to be made available to Forum/CPC members for comment
- IESO will co-ordinate with Forum members and other communications contacts to alert them to the release and provide background info
- Advance webinar with LDCs to brief on report

Agenda Item # 3

Report back from the Corporate Partners
Committee

(see Amended *Terms of Reference* distribution item)

{Continuing discussion from February 8th}

Agenda Item # 4:
SmartGrid Canada



Recall:

- The question of whether or not the Forum should join the membership of **SmartGrid Canada** discussed at its February 8th meeting.

- Action item stemming from February 8th:

“Forum members were asked to consider two questions regarding the Forum’s prospective involvement in SmartGrid Canada: i) do Forum members see value in this? and, ii) would our potential involvement dilute the Forum’s work here in Ontario?”

(as recorded in the draft February 8th minutes)

“SmartGrid Canada (SGC) is a new national organization dedicated to promoting a more modern and efficient electricity grid for the benefit of all Canadians. Our goal is to drive innovation and leadership to advance Canada’s Smart Grid infrastructure by engaging stakeholders from multiple industries.

We are comprised of public and private organizations, including utilities, vendors, technology and service providers, academia and other industry associations. A not-for-profit association, we work on behalf of our members to:

- Educate and build awareness of the need for and benefits of a modern, “smarter” electricity system – from energy providers through to consumers;
- Promote the research, development and deployment of new and innovative energy technologies and products;
- Advocate for national and provincial energy policies that support the development of Smart Grid technologies in Canada.

A Smart Grid will provide a more reliable and cost-effective supply of power, enable Canadians to better manage and conserve energy, and help build a stronger and more sustainable economy.”

{from the SmartGrid Canada website}

Classes of Membership:

1) Full Members

Eligibility: Canadian-based public and private businesses

2) Associate Members

Eligibility: Government agencies and other non-profit agencies


3) Affiliate Members

Eligibility: Education community, including colleges and universities

Cited Benefits of Membership from their website:

1. "Building relationships
2. Networking
3. Accessing key knowledge
4. Connecting globally
5. Impacting policy
6. Advancing the Smart Grid cause "



Option	Pros?	Cons?
<p>Option 1: Ontario Smart Grid Forum joins SmartGrid Canada as a single entity</p>	<ul style="list-style-type: none"> • Coordinated, unified representation of the Forum at a national level • One membership fee, shared by many 	<ul style="list-style-type: none"> • Potential dilution of Ontario's influence • Potential loss of independence of the Forum itself.
<p>Option 2: Ontario Smart Grid Forum doesn't join, but encourages its members to join individually</p>	<ul style="list-style-type: none"> • Stronger Ontario representation if a large number of SGF and CPC members join 	<ul style="list-style-type: none"> • Diminished ability to coordinate Ontario interests and act in a single, unified manner
<p>Option 3: Ontario Smart Grid Forum doesn't join, but liaises with SmartGrid Canada on an as-needed basis.</p>  <p>Recommended approach</p>	<ul style="list-style-type: none"> • Forum's independence maintained • No membership fee • Still an opportunity to draw together Ontario interests on a national stage. 	<ul style="list-style-type: none"> • Diminished opportunity to directly vote/influence policy and other decisions undertaken by SmartGrid Canada



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Power to Ontario.
On Demand.

Thank you.