



Ontario Smart Grid Forum: Support Presentation

Tuesday, February 8th 2011



Agenda Item # 1

S.G.F. Minutes

- **December 7th 2010** minutes:
 - no further comments received.
 - Recommended as **FINAL**
- **DRAFT January 17th** minutes circulated for review.
 - Recommended comment deadline: Tues., Feb. 22nd

Agenda Item # 2

Smart Homes Roadmap

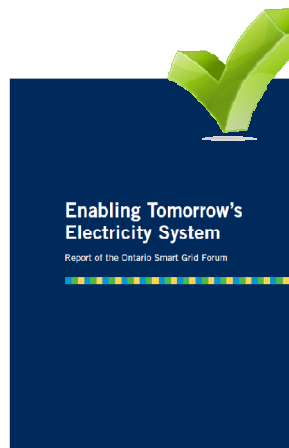
- **November 9th:** request from the Minister
- **December 7th:** Special Joint meeting of the Forum and the Corporate Partners Committee
- **February 4th:** Version 8, reflecting comments from the JANUARY 17th Forum, the Working Group and the Corporate Partners Committee has been conveyed to the Energy Minister on behalf of the Forum.
- Subject to be included in next report

Agenda Item # 3

SGF Annual Report

The Annual Report: Next step in our "story board"

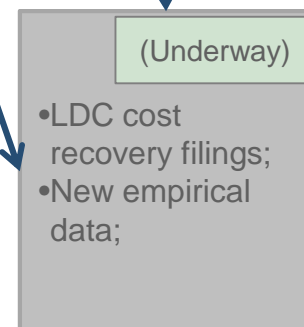
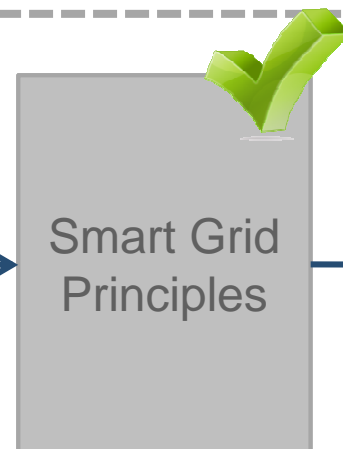
2009



2010



2010



Delta analysis relative
to 2009 estimates

2011



2011



- **January 10th:** Review of 2009 Forum recommendations by the Working Group
 - Recommendations updated
 - Commentary of select recommendations conveyed to the January 17th Forum meeting (see also, supporting slide deck for the January 17th meeting)
- **January 17th:** SGF review of recommendations, discussion of report format and audience.
- **Since our last meeting:**
 - Second round of review of previous and NEW recommendations by the Working Group
 - Revised outline of the Report prepared

1. Review major themes, decisions and potential consensus viewpoints that the Forum has explored over the past year.
(see distribution item – revised recommendation tracking document, Feb. 4, 2011)
2. Review and discussion: revised proposal for the structure of the report.
(see distribution item – revised report outline)

- Two sets of recommendations:
 - New potential recommendations- (**series 'N'**);
 - Previous recommendations of the Forum from its 2009 – (**series 'A' to 'H'**) Wherever possible, the “status of activities” column for each of the original 2009 recommendations has been updated.
- Issues and recommendations that should likely carry forward somehow into this year’s Annual report are highlighted with a **GREEN** background.

- A draft “Status Summary” has been assigned to most of the recommendations for discussion purposes only:
 - **‘On Track’**: the issue is generally evolving/being addressed at a rate that will not likely impede the development of the smart grid in the province of Ontario.
 - **‘At Risk’**: the issue is generally evolving/being addressed at a rate that is at risk of impeding the development of the smart grid in the province of Ontario.
 - **‘Urgent Pace’**: the issue is generally evolving at a rate that is potentially getting ahead of policies, rules and regulations that help assure that the associated Smart Grid Principles developed by the Forum are realized.

Agenda Item # 4

Report back from the Corporate Partners
Committee – Re.: Smart Grid Success Metrics

(see distribution item)

Agenda Item # 5

The Ontario Smart Grid Forum in a National and Continental Context



- The focus of the Forum is of course directed at development of the Smart Grid in Ontario. However, recent activities and events have generated a broader interest in our endeavours.
- In addition to being helpful to other organizations do we have something to gain from these interactions? For example...
 - Broader knowledge, input and context to the Forum's deliberations
 - Finding areas of natural advantage and expertise
 - Helping to focus the Forum's efforts on topic areas where there is truly an Ontario-specific interest

1. **Debrief from the Chair:** recent Canada/U.S. Clean Energy Dialogue Conference (“**Smart Grids in the North American Context: A Policy Leadership Conference**”) co-hosted by the IESO and the University of Waterloo Center for International Governance Innovation (CIGI)
2. **DEFERRED from January 17th:** Potential relationship between the Ontario Smart Grid Forum **and Smart Grid Canada.**
3. **Information item:** future presentation from the **Great Lakes Sustainable Energy Consortium** and possible linkages to the Forum’s work.



SMART GRIDS IN THE NORTH AMERICAN CONTEXT:
A POLICY LEADERSHIP CONFERENCE
A US-CANADA CLEAN ENERGY DIALOGUE EVENT
WATERLOO, ONTARIO, CANADA
JANUARY 24-25, 2011

- **Keynote Address:** The Hon. Christian Paradis, Minister of Natural Resources
- **Open Discussion:** Paul Murphy and Patricia Hoffman, Asst. Sec. for the Office of Electricity Delivery and Energy Reliability, U.S. Dept. of Energy
- **“US Smart Grid Developments and their Impact on Canada”** – moderated by Ken Kozlik
- **The Ontario Smart Grid Forum: A Co-ordinated Effort** – Don Tench¹⁶ and other Forum Members

{DEFERRED from January 17th}

Discussion:
SmartGrid Canada



“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 "



- As of June last year, SmartGrid Canada was invited to join the Global Smart Grid Federation which was founded by the GridWise Alliance in the U.S. and also includes:
 - Smart Grid Australia
 - Korea Smart Grid Association
 - Smart Grid Ireland
 - Japan Smart Community Alliance
 - India Smart Grid Forum

- Are there benefits to formalizing the relationship between the Ontario Smart Grid Forum and the SmartGrid Canada?
- Are there common aims and issues of interest between the two organizations?
- Does SmartGrid Canada help create an opportunity for the Ontario Smart Grid Forum to exert some influence at both a national and international level and if so, is that desirable?



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Technology Development · Commercialization · Economic Growth

Great Lakes Sustainable Energy Consortium

Context:

- Various member organizations of the Great Lakes Sustainable Energy Consortium recently attended the Canada/U.S. Clean Energy Dialogue Conference in Waterloo.
- While largely grounded in research institutions, the Consortium is seeking greater coordination and input at a policy level, and would like to discuss potential interactions with the Forum in the near future.
- **But first, a little bit about them – in their own words...**



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MISSION STATEMENT

The Great Lakes Sustainable Energy Consortium will focus on advanced sustainable and secure energy technologies in a collaborative environment. The Consortium will serve the academic, industrial, and educational research needs of both Canada and the US, to enhance commercialization and to inform public policy within the sustainable energy sector.

A shared internationally competitive resource pool will be cultivated, building on existing and emerging regional strengths and infrastructure. The Consortium will act collaboratively to develop, retain and attract the best human resources through training, research programs and job creation. The Consortium will strengthen the competitiveness of our regional industries and contribute to economic growth by providing an early window into sustainable energy technologies.



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The objectives of the GLSEC are:

- (i) the establishment of a world-class Canada-US research and public policy consortia focussing on renewable energy research and policy implementation;
- (ii) graduate research student, faculty, and industry technical collaboration, policy implementation and economic development;
- (iii) increased understanding of Canada and US renewable energy research and public policy options;**
- (iv) stimulate coordinated renewable energy policy between Ontario and NYS;**
- (v) the establishment of an annual technical and policy briefing on the state of renewable energy research, policy implications and commercial implementation for both Ontario and NYS.



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Current Membership

- **The Consulate General of Canada, Buffalo, NY**
- **Queen's University at Kingston, Ontario**
- **Syracuse University**
- **Clarkson University**
- **SUNY College of Environmental Science & Forestry**
- **Cornell University**
- **Constellation Energy**
- **National Grid**
- **O'Brien & Gere Companies**
- **C&S Companies**



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Power to Ontario.
On Demand.

Thank you.