

Ontario Smart Grid Forum

Ontario Smart Grid Forum Notes of Meeting

Date: **Tuesday, September 6th, 2011**
Time: 09:00 to 1:00
Location: **Today's meeting was conducted by conference call**

Forum members attending:

| | |
|-----------------|------------------------|
| Paul Murphy | IESO (Forum Chair) |
| Keith Major | Bentall Kennedy |
| Ivano Labricosa | Toronto Hydro |
| Jatin Nathwani | University of Waterloo |

Working Group Members Attending:

| | |
|---------------|----------------------------|
| Raed Abdullah | Hydro Ottawa |
| Edward Arlitt | IESO |
| Jerry Chwang | Ontario Ministry of Energy |

Corporate Partners Committee members attending:

Shelley Lewis, CPC Chair

See **Appendix 'A'** for a cumulative list of open Forum action Items.

09:10 – call to order

Agenda Item # 1: Previous SGF Minutes

FINAL minutes of the **June 21st, 2011** meeting of the Smart Grid Forum:

The minutes of the **June 21st, 2011** meeting were tabled as final.

DRAFT Minutes of the **August 9th, 2011** meeting of the Smart Grid Forum:

The draft minutes of the **August 9th** meeting were tabled with a comment deadline of Friday, September 9th. No amendments were suggested at the meeting.

Agenda Item # 2: Review of Smart Grid Forum Recommendation Tracking Log

{see also, "*Smart Grid Forum Recommendation Tracking Log*" version 8.1}

No major changes were proposed for the Recommendation Tracking Log at this time, though the Working Group was asked to review Table 3,¹ and where applicable, make recommendations for further deletions from the Log for the next Forum meeting.

Agenda Item # 3: Report Back from the Working Group

{see also, meeting support presentation}

¹ Table 3 title: "Previous recommendations of the Forum from its first report, February 2009 that have been supplanted by the 2011 recommendations."

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Edward Arlitt (IESO staff, and Working Group Chair) presented the report back from the Working Group. The report covered the following topic areas:

- Continuing work on Energy Storage Framework for Ontario
- Review of smart grid architecture concepts

Energy storage:

The Working Group's latest examination of energy storage issues has focused on identifying and classifying potential benefits of storage that accrue to the storage asset owner, third parties and the system as a whole. In addition the Working Group has developed a cross-reference table linking those potential benefits to energy storage use cases developed by the U.S. National Institute of Standards and Technology, Priority Action Plan 7. The Working Group also linked the identified benefits to various private and public incentives that could help encourage the realization of those benefits.

During the discussion of the energy storage slides various comments were made as follows:

- Transmitters may have an interest in geographic incentives for the site selection of storage assets.
- Remote communities have unique interest in storage investments
- Storage is the key to renewable integration and there should be incentives aimed directly at the owners of intermittent generators to take on the co-location of storage.
- Flow batteries are a storage technology that is modular, scalable, and has lately generated a lot of interest.

Edward indicated that the Working Group was considering the consolidation of its work-to-date in a position paper in order to allow it to be vetted by the Corporate Partners and ultimately sharpen the recommendations of the Forum in this area. A couple of attendees voiced their approval of this approach.

Smart Grid Architecture:

The next portion of the presentation focused on the Working Group's Review of the draft "*NIST Framework and Roadmap for Smart Grid Interoperability Standards*," Release 2.0. The Working Group turned its attention to section 3 of that document, and particularly, the conceptual model of the Energy Services Interface (ESI). In the NIST architectural model, the ESI sits at the meeting point between the customer, the LDC and various service providers. The Working Group recognizes that the ESI will be a critical point at which the Information and Privacy Commissioners Privacy by Design principles² will be enforced.

During the discussion, a member suggested that the Forum will at some point need to have a rigorous debate on what role the LDC will need to play in protecting the consumer, while at the same time not become a barrier to competition in the smart homes domain.

² See also, recommendations of the Smart Grid Forum's second report

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Agenda Item # 4: Progress Report from Ontario Ministry of Energy regarding two recent electric vehicle announcements:

Jerry Chwang (Ontario Ministry of Energy, and member of the Working Group) provided an update on two recent Ministry announcements as follows:

- i) EV charging stations ("*Ontario Leading The Way For Electric Cars*" August 9, 2011)
- ii) Assistance for 'Magna E-Car Systems' ("*Ontario Plugs Into Clean Cars, Creates Over 700 Jobs*" August 29, 2011)

{see also, distribution materials or Ontario Government website for copies of the above releases}

With regards to the first announcement, Jerry mentioned that it was largely issued under the auspices of Infrastructure Ontario. In addition, Jerry alluded to an internal, electric vehicle working group between the Ministry of Energy and the Ministry of Transportation. The next steps in the process would be to issue a request for information regarding how best to allocate the \$ 80 million fund mentioned in the news release.

Jerry then spoke to the second announcement regarding the \$ 48.4 million allocated to support elective vehicle development over 19 different projects. In the case of this second announcement, the Ministry of Economic Development and Trade (MEDT) is the acting as the lead organization. A member asked if the internal, government electric vehicle working group has been asked to participate in this effort and it was indicated not as of yet.

Agenda Item # 5: Upcoming smart grid events – to October 11th {see support presentation}

Agenda Item # 6: Roundtable update {no reports given}

Next Meeting:

Tuesday, October 11th, 2011

11:00 – Adjournment.

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APPENDIX 'A'

S.G.F. OPEN Action Items as of September 6th, 2011

See also:

- Work plan of the SGF Working Group tabled at the June 21st meeting as part of the report back from the Working Group Presentation
- *Smart Grid Forum Recommendation Tracking Log*

| Action Item | Date Assigned | Assigned To | Target Completion | Status |
|--|---------------|---------------|-------------------|--------|
| The Forum will undertake to invite the Ontario Information and Privacy Commissioner to meet with them to discuss the emerging smart grid privacy framework that will stem from the recommendations being developed by the Corporate Partners Committee on privacy and 3 rd party data access. | Aug. 9, 2011 | Forum and CPC | TBD | OPEN |
| All Forum members should advise the rest of the Forum via IESO staff, regarding their activities, and membership status with respect to SmartGrid Canada on an ongoing basis. | Aug. 9, 2011 | Forum and CPC | Ongoing | OPEN |
| Examine the <i>IESO Market Rules</i> from the standpoint of whether or not they present any barriers to participation of load aggregators, and scheduling service providers in the wholesale market or otherwise conflict with the smart grid interoperability framework. | Feb. 9, 2010 | IESO Staff | TBD | OPEN |

CLOSED Action Items:

As of October 12th, 2010 closed action items are no longer listed in the minutes as per the agreement reached at the September 7th, 2010 Forum meeting. The removal of an open action item from the above list constitutes the completion of that item.