

AGENDA

DOE Microgrid Workshop

July 30-31, 2012

[IIT Galvin Center for Electricity Innovation](#)

10 W. 35th Street, 16th Floor, Chicago, IL 60615

Transportation services will be provided among the Renaissance Blackstone Chicago Hotel, the meeting location, and the reception location.

Hotel Departure Times: 7/29 – 5:45 pm; 7/30 & 7/31 – 7:30 & 7:45 am; 8/1 – 8:00 am

Return Times: Following conclusion of events on each day

Sunday, July 29

6:00-7:30 pm [Pre-workshop Reception at the Galvin Center](#)

Day 1, Monday, July 30

8:00 Continental Breakfast at the Galvin Center

8:30-9:30 am [Opening Plenary Session](#)

- **Welcoming Remarks**
Andrew Ross, Chief Operating Officer, State of Illinois
- **Panel on International Microgrid Development**
Dan Ton, Program Manager, DOE, USA (Moderator)
[Nikos Hatziargyriou](#), Professor, National Technical University of Athens, Greece
[Dae Kyeong \(DK\) Kim](#), Principal Researcher, KERI, Korea
[Tatsuya Shinkawa](#), Chief Representative, NEDO, Japan
[Merrill Smith](#), Program Manager, DOE, USA

9:30-3:00 pm [Lessons Learned and Best Practices on Microgrid Development and Operations](#)

9:30 **Sendai Microgrid (Japan)**

[Satoshi Morozumi](#), NEDO

[Keiichi Hirose](#), NTT Facilities

[Hiroshi Irie](#), Mitsubishi Research Institute

10:15 **Break**

10:30 [Microgrid with an Open, Scalable Architecture](#)

Ross Guttromson/Steven Glover, Sandia National Laboratories

AGENDA – DOE MICROGRID WORKSHOP

Day 1, Monday, July 30

9:30-3:00 pm Lessons Learned and Best Practices (continued)

11:15 Selected European Microgrid Demonstrations

[Philipp Strauss](#), Fraunhofer IWES, Germany

[Ernst Scholtz](#), ABB AG, Germany

Noon Lunch (Provided by the Workshop)

1:00 [Twentynine Palms Marine Base Microgrid](#)

Sumit Bose, GE Global Research

Marques Russell, US Marine Corps

1:45 [Santa Rita Jail Microgrid](#)

Eduardo Alegria, Chevron Energy Solutions

2:30 [Campus Microgrid at the Illinois Institute of Technology](#)

Mohammad Shahidehpour, Illinois Institute of Technology

3:15 Break

3:30-5:00 pm Identification of Technical Topics for Further Definitization at Day-2 Breakout Sessions

3:30 Brainstorming Session to Identify a List of Technical Topics of Interest

Facilitated discussions to draw a list of technical topics of interest from attendees based on what they have heard from lessons-learned presentations and their own knowledge and experience. The preliminary list of topics developed by the Workshop Planning Committee and distributed to the attendees will be used as a starting point of session discussions to make additions, deletions, and changes.

4:30 Identification of the Top-12 Technical Topics from the List for Day-2 Discussions

Show of hands by attendees for voting each technical topic identified of interest to be either on the top-12 or non-top-12 list.

5:00-5:30 pm Organization of Day-2 Breakout Sessions

Two technical topics from the top-12 list will be assigned to a breakout session for Day-2 discussions. Each attendee will be asked to join one of the six breakout sessions established for Day 2; reassignment of attendees will be made, if necessary, for balanced, adequate representations in each breakout session. The facilitator/note-taker for each session will be introduced to session attendees.

5:30 Adjourn for the Day

6:30-8:00 pm Workshop Reception at the Museum of Science and Industry

AGENDA – DOE MICROGRID WORKSHOP

Day 2, Tuesday, July 31

8:00 **Continental Breakfast at the Galvin Center**

8:30-1:30 pm **Concurrent Breakout Sessions #1-6**

For each technical topic assigned, facilitated discussions to develop an actionable plan. A list of questions developed by the Planning Committee should be referred to while developing the following action plan elements:

- Framing of the topic
- Current technology status
- Needs and challenges
- R&D scope
- R&D metrics

Noon **Lunch (Provided by the Workshop)**

2:00-4:00 pm **Closing Plenary**

2:00 **Report-out by Spokesperson of Each Breakout Session (~15 minutes each, including Q/A)**

- [Session 1a: Definition of Microgrid Applications Interfaces, and Services](#)
- [Session 1b: Open Architectures that Promote Flexibility, Scalability, and Security](#)
- [Session 2: Modeling, Analysis, & Design](#)
- [Session 3: DC Power and Microgrid Integration](#)
- [Session 4a: Steady State Control and Coordination – Internal Services within a Microgrid](#)
- [Session 4b: Steady State Control and Coordination – Interaction of Microgrid](#)
- [Session 5: Transient State Control and Protection](#)
- [Session 6: Operational Optimization](#)

3:30 **Feedback and Facilitated Discussion from Attendees Including Recommendations and Next Steps**

3:50 **Closing Remarks**

Dan Ton and Merrill Smith, Program Managers, DOE Smart Grid R&D Program

4:00 **Workshop Adjourn**

4:00 – 5:30 pm **Tour of IIT Microgrid (Optional)**

5:30 Shuttle bus(es) returning to the Renaissance hotel

Wednesday, August 1

8:00 – 11:00 am **Tour of S&C Facilities (Optional)**

8:00 Shuttle bus(es) departing from the Renaissance hotel

11:00 Shuttle bus(es) returning to the Renaissance hotel