



CALIFORNIA'S SMART GRID

California Public Utilities Commission
Smart Grid Rulemaking
R.08-12-009

WORKSHOP 3 **THE TRANSMISSION SYSTEM AND ENERGY STORAGE**

FINAL AGENDA

JUNE 26, 2009
10:00 AM – 3:45 PM
AUDITORIUM
CPUC, 505 VAN NESS AVENUE, SAN FRANCISCO, CA 94102

This workshop will focus on Smart Grid issues that arise at the transmission level. This workshop will address transmission issues related to Smart Grid such as situational awareness, cyber security, renewables integration, and the impact of a smart distribution grid.

Each section of the agenda will begin with a brief five minute presentation by each panel member. The presentations will be followed by discussion moderated by Commission staff.

The workshop will be webcast (video & listen only). The video webcast will be at www.californiaadmin.com/cgi-bin/cpuc.cgi. Presentations will be on the web for viewing at <http://www.cpuc.ca.gov/PUC/energy/smartgrid.htm>.

AGENDA

10:00 a.m. - 10:15 a.m. Welcome and Opening Comments:
Assigned Commissioner Rachelle Chong

10:15 a.m. - 12:00 p.m. The Smart Transmission Grid

- What is “wide-area situational awareness” and why is it important?
- How can Smart Grid increase the efficiency of the transmission grid (i.e. improve asset utilization)? How can concepts such as Phasor Measurement Units (PMUs) and dynamic ratings help?
- How can Smart Grid help maintain a reliable grid given the challenges the grid will be facing?
- What cyber security challenges does the transmission grid face? How can Smart Grid help address these challenges?
- What metrics would be suitable for measuring progress made by Smart Grid toward a more efficient and reliable transmission grid?





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Panelists:

- *Laura Manz, California Independent System Operator (CAISO)*
- *Michael Montoya, Southern California Edison (SCE)*
- *Joe Eto, Lawrence Berkeley National Laboratory*
- *Paul Halpin, Science Applications International Corporation (SAIC)*
- *Tom Bialek, San Diego Gas & Electric (SDG&E)*

12:00 p.m. - 1:15 p.m. Lunch Break

1:15 p.m. - 2:00 p.m. **The Impact of a Smart Distribution Grid on Transmission**

- What is “deep-area situational awareness” and why is it important?
- How can Smart Grid improve the flow of information from the distribution system up to the transmission grid?

Panelists:

- *Stephen Callahan, IBM Global Business Services - Energy & Utilities Division*
- *John McDonald, General Electric (GE) - Energy Transmission & Distribution*
- *Avnaesh Jayantilal, AREVA Transmission & Distribution*

2:00 p.m. - 3:30 p.m. **The Integration of Renewables and Energy Storage**

- What role should energy storage play relative to the integration of renewables?
- How can Smart Grid be used to optimize utilization of energy storage?
- What metrics would be suitable for measuring progress made by Smart Grid toward improved integration of renewables?

Panelists:

- *F. William Capp, Beacon Power*
- *Elaine Sison-Lebrilla, Sacramento Municipal Utility District (SMUD)*
- *Hal La Flash, Pacific Gas & Electric (PG&E)*
- *Janice Lin, California Energy Storage Alliance (CESA)*
- *Dauren Kilish, AES Grid Stability and Efficiency Group*

3:30 p.m. - 3:45 p.m. Wrap-up

