



UTILITY VARIABLE-GENERATION INTEGRATION GROUP MARKET OPERATION AND TRANSMISSION PLANNING USERS GROUP MEETING

March 14, 2017
3:15 pm – 5:00 pm

**Loews Ventana Canyon Resort
Tucson, AZ**

Meeting Agenda

This user group meeting will consist of a panel discussion focused on considerations for the aggregation and participation of Distributed Energy Resources (DER) such as PV, Demand Response and Energy storage in electricity markets. A great deal of time and effort has been spent in the past 5 years trying to figure out how energy storage technologies could participate in the organized markets, due to their characteristics of both load and generation, and their ability to participate in energy, capacity, and ancillary service markets. Similarly, a great amount of effort has been devoted to figuring out how DER can participate in the markets. Also during this time, a great deal of experience has been acquired in the planning and operation of these resources, both singly and in combination, in both market and non-market regions. This panel is intended to provide thoughtful consideration of where the policy discussion is heading, and what it means for the integration and operation of systems with DER and energy storage.

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| 3:15 pm | Welcome & Introductions | Aaron Bloom, NREL |
| 3:20 pm | Panel Session on FERC NOPR on Storage and DER Aggregation – What Does It Mean? | |
| | Session Chair, Aaron Bloom, NREL | |

Background: The gap between the transmission and distribution systems is closing rapidly. Renewable generation is disrupting the status quo from both ends of the power system. This panel discussion will focus on the following questions:

- What is the problem that's being addressed by the NOPR?

- What are the benefits and drawbacks of bundling the treatment of generation, DR, and storage in the NOPR?
- Given the lack of quorum at FERC, will RTOs be driven to act without FERC guidance?
- DSOs vs Aggregators, can they co-exist?
- How might the outlook for DSOs be impacted by participation of DER aggregators in the wholesale markets

Each panelist will give a 10-15 minute presentation on his point of view, followed by a discussion with the audience.

Presenters

- Clyde Loutan, CAISO
- Ron Coutu, ISO-NE
- Becky Robinson, FERC
- Udi Helman, Helman Analytics
- Discussion

4:50 pm Wrap-up and Discussion of Future Activities
 Aaron Bloom, NREL

General Discussion

5:00 pm Adjourn