



UTILITY VARIABLE-GENERATION INTEGRATION GROUP OPERATING IMPACTS AND INTEGRATION STUDY USERS GROUP MEETING

March 14, 2017
1:15 pm – 3:00 pm

**Loews Ventana Canyon Resort
Tucson, AZ**

Meeting Agenda

This user group meeting will consist of a panel discussion focused on how production cost models are used in different ways to study issues related to renewable integration. With variability and uncertainty of wind and solar a key integration challenge, these tools are often the center of renewable integration studies, and have undergone significant development in the past several years. This includes more detailed representation of system operations, including capability to model multiple decision cycles (day ahead, hour ahead, etc.), uncertainty modeling and detailed transmission representation. They also are used to provide cases for power flow and stability studies, and can be used to analyze the results of long term expansion analyses. Given how crucial these tools are to the planning challenges currently being faced, it is important to understand the capabilities of such tools, the data that is used and how they are actually utilized in studies. This panel is intended to provide detailed discussion of several different uses for these types of tools.

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| 1:15 pm | Welcome & Introductions | Aidan Tuohy, EPRI |
| 1:20 pm | Panel Session on Production Cost Modeling Tools Being Used to Assess Renewable Integration Challenges
Session Chair, Aidan Tuohy, EPRI | |

Background: The need to represent operational challenges in more detail in planning studies has led to significant advances in production cost modeling, both in terms of the software tools themselves, and the manner in which they are being used. This panel will discuss the following topics:

- How are these tools being used in planning and operational planning at present to study renewable integration challenges?

- Do you see the need for new tool capabilities and/or further testing of existing capabilities, to meet planning challenges?
- What are the main barriers to more advanced use of these tools?
- How can these tools be used to inform other planning or operational studies?
- Do you currently study the relationship between stability assessment and production cost, and how can we improve linkages across those areas?

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

Presenters

- Julia Matevosjana, ERCOT
- Jay Caspary, SPP
- Francisco de la Rosa, CENACE and Carlo Brancucci, NREL
- Russ Philbrick, Polaris Systems Optimization
- Discussion

2:50 pm Wrap-up and Discussion of Future Activities
 Aidan Tuohy, EPRI

General Discussion

3:00 pm Adjourn