

## **Agenda**



**Technical Workshop on DER Integration with IEEE 1547/1547.1 Standards** 

Transmission and Substation Subcommittee DER Ride Through Task Force

PJM Conference and Training Center July 30-31, 2019

## Introductory Section, Day 1, July 30th, 8:30 – 11:00

- 1. (8:30 9:00) Attendees sign up, on site at PJM CTC or via WebEx.
- 2. (9:00 9:10) Welcome and roll call.
- 3. (9:10 9:30) Overview of PJM Infrastructure Planning and DER Integration, Suzanne Glatz, Dir. Infrastructure Planning, PJM
- 4. (9:30 9:45) Overview of Generation Interconnection Process at PJM and DERRTTF Activities, Susan McGill, Mgr. Interconnection Analysis, PJM
- 5. (9:45 10:15) **Advances of DER Integration at PJM**, *Emanuel Bernabeu, Dir. Applied Innovation & Analytics, PJM*
- 6. (10:15 10:30) **Future System Impact of DOE Solar Integration Activities**, *Jeremiah Miller*, *Technology Manager*, *Solar Energy Technologies Office*, *DOE*
- 7. (10:30 11:00) Break

## IEEE Standard of DER Interconnection and Interoperability, Day 1, July 30th (11:00 - 15:00)

- 8. (11:00 12:00) Introduction of IEEE 1547-2018 Std. (Part I), David Narang, National Renewable Energy Laboratory (NREL) / Chair, IEEE 1547 WG
- 9. (12:00 13:00) Lunch Break
- 10. (13:00 13:45) Introduction of IEEE 1547-2018 Std. (Part II), David Narang, National Renewable Energy Laboratory (NREL) / Chair, IEEE 1547 WG
- 11. (13:45 15:45) Introduction of IEEE 1547.1 Std. Development, Andy Hoke, National Renewable Energy Laboratory (NREL) / Chair, IEEE 1547.1 WG

## Practices and Challenges in DER Integration (Part I) Day 1, July 30th (15:45 - 16:45)

12. (15:45 – 16:15) **DER** interconnection on the **EPS**: challenges and opportunities, *Mamadou Diong, Dominion Energy* 

PJM©2019 1



# **Agenda**



- 13. (16:15 16:45) Group discussion: DER Integration Planning and Implementation (Part I)
- 14. 16:45 Adjourn for Day 1.

### Practices and Challenges in DER Integration (Part II) Day 2, July 31th (8:30 - 12:00)

- 15. (8:30 9:00) Attendees sign up, on site at PJM CTC or via WebEx.
- 16. (9:00 9:30) DERs' Best Practices Preparing for the 100% Renewable System, Ahmed Mousa, PSE&G
- 17. (9:30 10:00) Group Discussion: DER Integration Planning and Implementation (Part II)
- 18. (10:00 11:00) Implementing LVRT and LFRT, Andrew Levitt, Applied Innovation, PJM
- 19. (11:00 11:20) IEEE SA Updates and Call of Support on Inverter-Based Resource Interconnection with Transmission EPS (P2800) and Proposed IEEE 1547-2018 Amendment, David Narang, NREL and Ravi Subramaniam, Dir. IEEE Standard Association
- 20. (11:30 12:00) Group discussion: DER Integration Ride Through and beyond
- 21. 12:00 Adjourn.

Author: Jonathan Thompson

### Antitrust:

You may not discuss any topics that violate, or that might appear to violate, the antitrust laws including but not limited to agreements between or among competitors regarding prices, bid and offer practices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that might unreasonably restrain competition. If any of these items are discussed the chair will re-direct the conversation. If the conversation still persists, parties will be asked to leave the meeting or the meeting will be adjourned.

#### Code of Conduct:

As a mandatory condition of attendance at today's meeting, attendees agree to adhere to the PJM Code of Conduct as detailed in PJM Manual M-34 section 4.5, including, but not limited to, participants' responsibilities and rules regarding the dissemination of meeting discussion and materials.

PJM©2019 2



## Agenda



#### **Public Meetings/Media Participation:**

Unless otherwise noted, PJM stakeholder meetings are open to the public and to members of the media. Members of the media are asked to announce their attendance at all PJM stakeholder meetings at the beginning of the meeting or at the point they join a meeting already in progress. Members of the Media are reminded that speakers at PJM meetings cannot be quoted without explicit permission from the speaker. PJM Members are reminded that "detailed transcriptional meeting notes" and white board notes from "brainstorming sessions" shall not be disseminated. Stakeholders are also not allowed to create audio, video or online recordings of PJM meetings. PJM may create audio, video or online recordings for internal and training purposes, and your participation at such meetings indicates your consent to the same.

#### Participant Identification in WebEx:

When logging into the WebEx desktop client, please enter your real first and last name as well as a valid email address. Be sure to select the "call me" option. PJM support staff continuously monitors WebEx connections during stakeholder meetings. Anonymous users or those using false usernames or emails will be dropped from the teleconference.

#### On the Phone Dial



Mute / Unmute

### Linking Teleconference Connection to WebEx

To link your teleconference connection (audio presence) to your WebEx presence, please dial \*29 and enter your Personal Identification Number. Once you are logged in to the WebEx, this PIN can be found under the "Meeting Info" tab of your WebEx window.

## Join a Meeting

- Join meeting in the WebEx desktop client
- 2. Enter name (First and Last\*) and corporate email
- 3. Under "Select Audio Option" select "Call Me" option from the dropdown menu

\*Note: Anonymous users or those using false usernames or emails will be dropped from the teleconference.

Provide feedback on the progress of this group: <u>Facilitator Feedback Form</u>
Visit <u>learn.pim.com</u>, an easy-to-understand resource about the power industry and PJM's role.

PJM©2019 3