

# MADRI WORKING GROUP MEETING #52 – February 20, 2019

## DISTRIBUTED ENERGY RESOURCES IMPACTS

**PECO**  
**25<sup>th</sup> Floor Meeting Room (A&B)**  
**2301 Market Street**  
**Philadelphia, PA**  
**Remote Participation**  
**Web Address: <https://pjm.webex.com>**  
**Meeting Name: MADRI**  
**Meeting number: 620 378 770**  
**Meeting password: madri0220pjm**  
**Teleconference call-in number: 1-866-546-3377 (US)**  
**Participant passcode: 959934**

Customers in MADRI states are increasingly turning to distributed energy resources (DERs) to meet their own energy-related goals, especially for cost savings, environmental sustainability, and resilience. This includes all manner of DERs: distributed generation (DG), energy storage, energy efficiency (EE), demand response (DR) and flexible loads, and electric vehicles (EVs). The deployment of DERs on a utility's distribution system usually has little or no impact on system capacity needs or costs, when deployment levels are very low, but at higher deployment levels DERs can have a significant impact on distribution system needs and costs, either as a driver for increased costs or as a solution that reduces the need for infrastructure investments.

This meeting will focus primarily on the distribution system impacts of DERs and the associated costs and benefits. There will also be an update on the development of a MADRI guide to integrated distribution planning (IDP), which relates to and is informed by this topic of DER-related cost allocation. Finally, the meeting agenda will also include updates from PJM staff on storage and DER interconnection issues.

### AGENDA

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|------------------------|--|
| <b>9:30 – 10:00am</b>  | <b>Networking with attendees</b>   |
| <b>10:00 – 10:15am</b> | <b>Introductions</b><br>The Honorable Harold Gray, Commissioner, DE Public Service Commission<br>John Shenot, Regulatory Assistance Project                  |
| <b>10:15 – 11:30am</b> | <b>Impacts of DERs on Distribution System Infrastructure Needs</b><br>Dave Quier, PPL Utilities<br>John Leana, Energy and Environmental Economics, Inc. (E3) |

We'll start the day with an examination of some of the ways that DER deployment can drive the need – or alleviate the need – for distribution system infrastructure investments. This will include an overview of the topic and

insights from a utility perspective, as well as a discussion about how DER impacts – and thus, costs and benefits – can vary by location. We'll also hear about how utility commissions in other regions are weighing these issues.

**11:30am – Noon**

**Progress Report and Discussion of MADRI Guide to Integrated Distribution Planning (IDP)**

John Shenot, Regulatory Assistance Project

This session will offer an update on the status of developing the MADRI Guide to IDP, the plan for completing the guide, and opportunities for stakeholder input.

**Noon – 12:45pm**

**Lunch**

**12:45 – 2:00pm**

**Electric Vehicles and the Distribution Grid**

Dr. Nancy Ryan, Energy and Environmental Economics, Inc. (E3)

Mark Warner, Gabel Associates

Joey Chen, MD Public Service Commission

Electric vehicles (EVs) were last on a MADRI agenda almost two years ago. Given the rate of change in EV and charging infrastructure issues, much has changed. In this panel we'll review some of the key trends and recent developments and look at recent studies of EV impacts on the distribution grid.

**2:00-3:00pm**

**PJM Updates on DER Issues**

Andrew Levitt, PJM

Laura Walter, PJM

Lori Murphy Lee, PJM

PJM staff will present on two topics of interest to MADRI stakeholders: 1) an update on PJM's storage filing in response to FERC Order 841 and some potential implications for the distribution system; and 2) an update on PJM's IEEE 1547 taskforce.

**3:00 – 3:15pm**

**Wrap-Up, Adjournment**

The Honorable Harold Gray, Commissioner, DE Public Service Commission

John Shenot, Regulatory Assistance Project