

# MADRI WORKING GROUP MEETING #53 – July 18, 2019

## ENERGY STORAGE RESOURCES

**District of Columbia Public Service Commission  
Commission Hearing Room  
Suite 800  
1325 G Street NW  
Washington, DC**

**Remote Participation**

**Web Address: <https://pjm.webex.com>**

**Meeting Name: MADRI**

**Meeting number: 628 597 837**

**Meeting password: 9aCni2P3**

**Teleconference call-in number: 1-866-398-2885 (US)**

**Participant passcode: 555398**

It's been more than four years since we had a MADRI meeting focused on the topic of energy storage. Since that time, lithium-ion battery pack costs have dropped by more than 50% and deployed capacity has increased by a factor of 10. Energy storage has evolved from being an interesting but expensive experimental resource into a flexible and affordable asset that is central to any conversation about distributed energy resources.

In this meeting, we will start with a brief update on PJM's work on implementing the IEEE 1547-2018 interconnection standard, before diving into the topic of energy storage. After an overview on the status of energy storage deployment, our first panel will explore some of the ways energy storage can be used to meet the local needs of a customer, a utility, or a community. After lunch, a second panel will explore how distributed energy storage can meet bulk power system needs. Finally, we will end the day with a panel delving into some key policy and regulatory issues that influence the cost-effectiveness and viability of distributed energy storage resources.

## AGENDA

- |                        |   |
|------------------------|---|
| <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 – 10:30am</b> | <b>Update on IEEE 1547-2018 Interconnection Standard</b><br>Andrew Levitt, PJM  |

We'll start the day with a brief update on PJM's IEEE 1547 taskforce and the latest news about implementation of the IEEE 1547-2018 standard.

**10:30 – 10:45am**

**Energy Storage Market Snapshot**

Mac Keller, Smart Electric Power Association (SEPA)

This brief session will provide context for the rest of the day. The speaker will present an overview of the status quo and forecasts of energy storage deployments and costs.

**10:45am – Noon**

**Using Energy Storage to Meet Customer, Utility or Community Needs**

Marji Phillips, Direct Energy

Evan Berger, CALMAC

Justin Felt, Baltimore Gas and Electric Company

The first panel will focus on the challenges and opportunities for using energy storage, including thermal storage, to better serve the needs of customers, utilities, and communities. We'll hear from two companies that provide energy storage products and services, as well as a utility that is implementing energy storage projects on its system.

**Noon – 1:00pm**

**Lunch**

**1:00 – 2:00pm**

**Using Energy Storage to Meet Bulk Power System Needs**

Scott Baker, PJM

Nicole Sitaraman, Sunrun

During this session, we will consider some of the ways that energy storage is (or could be) used to meet bulk power system needs.

**2:00 – 3:00pm**

**Policies & Regulations that Influence the Viability of Energy Storage Resources**

Nitzan Goldberger, Energy Storage Association

Todd Olinsky-Paul, Clean Energy Group

The costs and the benefits of installing and operating energy storage resources are inevitably shaped by policies and regulations, most of which reside at the state or utility level. The final panel will examine some of the state and utility policies that have the greatest impact on the cost-effectiveness and viability of storage and its usefulness as a grid asset.

**3:00 – 3:15pm**

**Wrap-Up, Adjournment**

The Honorable Harold Gray, Commissioner, DE Public Service Commission

John Shenot, Regulatory Assistance Project