



Training for States on Distribution System and Distributed Energy Resources Planning

March 20, 2024
Nashville, Tennessee
Agenda

- 8:30 a.m. Welcome and Agenda Review**
*Ram Narayanamurthy, U.S. Department of Energy, Building Technologies Office
Jeff Loiter, NARUC, and Catherine Reed, NASEO
Lisa Schwartz, Berkeley Lab*
- 8:45 a.m. Integrated Distribution System Planning Overview**
Natalie Mims Frick and Lisa Schwartz, Berkeley Lab
- 10:00 a.m. Break (refreshments provided)**
- 10:15 a.m. Load Forecasting**
Julieta Giraldez, Julieta Energy
- Forecasting tools and methods for greater temporal and spatial granularity
 - Scenario-based forecasting
 - Electrification and extreme weather impacts
- 11:15 a.m. Group Exercise – State Objectives and Priorities for Distribution System and Distributed Energy Resources Planning**
Facilitated by National Association of Regulatory Utility Commissioners and National Association of State Energy Officials
- 12:00 p.m. Lunch and networking**
- 12:45 p.m. Distributed Energy Resources Planning**
Cody Davis, Electric Power Engineers
- DER forecasting
 - Hosting capacity analysis
 - Non-wires alternatives

— Continued —

The U.S. Department of Energy's Office of Electricity and Building Technologies Office provided support for this training.

- 1:45 p.m.** **Group Exercise – State Challenges and Opportunities for Distribution and DER Planning**
Facilitated by National Association of Regulatory Utility Commissioners and National Association of State Energy Officials
- 2:00 p.m.** **Break**
- 2:10 p.m.** **Group Exercise (continued)**
- 2:30 p.m.** **Identifying Grid Needs and Evaluating Investment Options**
Samir Succar, ICF
- Grid needs assessment
 - Technology investment strategies for grid modernization, DERs and electrification
 - Valuation methods
 - Technology roadmap
- 3:45 p.m.** **Break (refreshments provided)**
- 4:00 p.m.** **Recovering and Allocating Costs**
Ronny Sandoval, Regulatory Assistance Project
- Regulatory challenges
 - Treatment of projects that receive federal funding
 - Ratepayer vs. taxpayer funding
 - Proactive distribution upgrades for distributed energy resources and electrification
 - Resilience investments
- 5:00 p.m.** **Adjourn**



Training for States on Grid Resilience Planning

March 21, 2024

Nashville, Tennessee

Agenda

- 8:30 a.m. Welcome and Agenda Review**
Tom King, U.S. Department of Energy, Grid Deployment Office
Jeff Loiter, NARUC, and Blake Kinney, NASEO
Lisa Schwartz, Berkeley Lab
- 8:45 a.m. Introduction to Resilience for Electricity Systems**
Gayathri Krishnamoorthy, National Renewable Energy Laboratory
- 9:15 a.m. Identifying Threats, Predicting Vulnerabilities, and Assessing Risks¹**
Tom Wall, Argonne National Laboratory
- 10:15 a.m. Break (refreshments provided)**
- 10:30 a.m. Example Utility Vulnerability Assessment**
Cynthia Klein, Duke Energy, and Neil Weisenfeld, ICF
- 11:15 a.m. What Should Grid Resilience Plans Include? *Planning Requirements, Emerging Best Practices, and Template***
Josh Schellenberg, Berkeley Lab affiliate
- 12:00 p.m. Lunch (provided) and Networking**
- 12:45 p.m. Group Exercise – Engaging Stakeholders and Building Equity in Resilience Planning**
Facilitated by National Association of Regulatory Utility Commissioners and National Association of State Energy Officials
- 1:30 p.m. Strategies for Valuing and Prioritizing Resilience Investments and Measuring Progress**
Peter Larsen, Berkeley Lab
- 2:30 p.m. Mitigation, Rapid Restoration Strategies, and Best Practices — with Case Studies**
Josh Schellenberg, Berkeley Lab affiliate

— Continued —

¹This training will not cover cybersecurity and kinetic attacks. See Lawrence Livermore National Laboratory's [presentation](#) at the Southeast resilience training as well as [NASEO](#) and [NARUC resources](#) on the topic.

3:15 p.m. **Break** (*refreshments provided*)

3:30 p.m. **State Criteria for Evaluating Resilience Projects**

Presenter and panel moderator: *Tom Wall, Argonne National Laboratory*

Panelists:

Kari Heinrich, Wisconsin State Energy Office - Office of Energy Innovation

Ben Bolton, Tennessee Office of Energy Programs / Emergency Response

Avery Ashby, Middle Tennessee Electric

4:30 p.m. **Adjourn**