







Training for States on Distribution System and Distributed Energy Resources Planning

January 24, 2024 University of California Irvine, 6210 Donald Bren Hall [map] Agenda

8:30 a.m. Welcome and Agenda Review

Ram Narayanamurthy, U.S. Department of Energy, Building Technologies Office

Jeff Loiter, NARUC, and Blake Kinney, 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, Kevala

- 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

12:40 p.m. Welcome From University of California, Irvine

Jack Brouwer, Professor of Mechanical and Aerospace Engineering and Director of the

National Fuel Cell Research Center and Advanced Power and Energy Program

— Continued —

12:45 p.m. Distributed Energy Resources Planning

Cody Davis, Electric Power Engineers

- DER forecasting
- Hosting capacity analysis
- Non-wires alternatives

1:50 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

January 25, 2024 University of California Irvine, 6210 Donald Bren Hall [map] Agenda

8:30 a.m.	Welcome and Agenda Review Dave Parsons, 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 Sara Peterson, National Renewable Energy Laboratory
9:15 a.m.	Identifying Threats, Predicting Vulnerabilities, and Assessing Risks ¹ Tom Wall, Argonne National Laboratory
10:15 a.m.	Break (refreshments provided)
10:30 a.m.	Example Vulnerability Assessment Stephen Torres, Southern California Edison
11:15 a.m.	Strategies for Valuing and Prioritizing Resilience Investments and Measuring Progress JP Carvallo, Berkeley Lab
12:15 p.m.	Lunch (provided) and Networking
1:00 p.m.	Mitigation, Rapid Restoration Strategies, and Best Practices — with Case Studies Nichole Hanus, Berkeley Lab
1:45 p.m.	Engaging Stakeholders and Building Equity in Resilience Planning NARUC and NASEO interactive exercise
2:30 p.m.	Break (refreshments provided)
2:45 p.m.	What Should Grid Resilience Plans Include? Planning Requirements, Emerging Best Practices, and Template Josh Schellenberg, Berkeley Lab affiliate

tic attacks. See Lawrence Livermore National Laboratory's presentativ

- Continued -

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

Presenter and panel moderator: Tom Wall, Argonne National Laboratory

Panelists:

David Erne, California Energy Commission

John Parks, Colorado Energy Office

Rob Del Mar, Oregon Department of Energy

4:30 p.m. Adjourn