The New England Conference of Public Utility Commissioners (NECPUC) and National Association of Regulatory Utility Commissioners are offering free virtual training on electricity system planning in May and June 2022, in partnership with Berkeley Lab, Pacific Northwest National Laboratory and National Renewable Energy Laboratory. Both commissioners and staff of public utility commissions are invited to attend. Participants will learn:

- How utilities in New England and outside the region plan their distribution systems
- Best practices in coordinating distribution, transmission, and resource planning in the context of distributed energy resources, grid modernization and wholesale markets
- How to design distribution system and grid modernization planning to achieve state goals, plus investment economics
- Ways utilities are incorporating electrification of transportation and buildings in distribution planning
- How grid architecture can guide planning and design of electric systems to ensure sequential investments fit together, simplify future decisions and future-proof investments
- Ways states around the country are engaging in electric distribution system planning and emerging issues

Training sessions run from 1 to 3 hours starting in May. The series will close on June 30 with a states' roundtable on planning processes and hot planning topics in New England. Use registration links below to register for each session. You may attend some or all sessions.

May 12, 2 p.m. – 4 p.m. Eastern: Coordinating distribution, transmission and resource planning
Register at: https://us02web.zoom.us/webinar/register/WN_sTUAN5cdQ7SFxqiwQfMjTg

May 13, 1 p.m. – 3 p.m. Eastern: How utilities plan distribution systems
Register at: https://us02web.zoom.us/webinar/register/WN_882mU56LQIGvO_pjQLt8Vg

* Participants also can watch video recordings of Distribution Systems 101 and Utility Distribution Planning 101.
**Session registration links continue on next page**

May 19, 1 p.m. – 4 p.m. Eastern: Planning and paying for distribution systems to achieve state goals  
Register at: [https://us02web.zoom.us/webinar/register/WN_cDHgPV2gRrKytGNZ4LEljpw](https://us02web.zoom.us/webinar/register/WN_cDHgPV2gRrKytGNZ4LEljpw)

June 9, 2 p.m. – 3 p.m. Eastern: Delivering grid modernization value by design  
Register at: [https://us02web.zoom.us/webinar/register/WN_eubcljQ9Tn6cc5xVfGtqHg](https://us02web.zoom.us/webinar/register/WN_eubcljQ9Tn6cc5xVfGtqHg)

June 16, 2 p.m. – 3 p.m. Eastern: State regulatory approaches for distribution planning  
Register at: [https://us02web.zoom.us/webinar/register/WN_fHHFBUq8RJqZma-uTF5sFw](https://us02web.zoom.us/webinar/register/WN_fHHFBUq8RJqZma-uTF5sFw)

June 30, 1 p.m. – 3 p.m. Eastern: States’ roundtable on planning processes and hot planning topics in New England  
Register at: [https://us02web.zoom.us/webinar/register/WN_vz1HlGM1T6GqWpNbcj8p-g](https://us02web.zoom.us/webinar/register/WN_vz1HlGM1T6GqWpNbcj8p-g)

Contact Jessica Diaz at NARUC (jdiaz@naruc.org) if you have questions about registration. See session details below.

* Thanks to the U.S. Department of Energy’s Grid Modernization Laboratory Consortium for supporting the training.

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**DETAILED AGENDA**

**May 12, 2-4 p.m. Eastern**

**Coordinating distribution, transmission, and resource planning**  
*Paul De Martini, Newport Consulting; Alan Cooke, Pacific Northwest National Laboratory (PNNL); and Fritz Kahrl, Berkeley Lab*

This session will present best practices for integrated planning and potential improvements for New England utilities in the context of distributed energy resources, grid modernization, and wholesale markets, with implications for utility system operations.

**May 13, 1-3 p.m. Eastern**

**How utilities plan distribution systems**  
*Lavelle Freeman and Juan Martinez, Eversource; Elton Prifti, National Grid; Kim Cullen, Avangrid; and Jody Londo, Xcel Energy*

Utilities in New England and outside the region will present current and evolving approaches to distribution system planning, including goals and objectives, planning scenarios, and integration with other planning processes and grid modernization strategies. Additional topics include planning for load growth, reliability/resilience, aging infrastructure, distributed energy resources, and technological advances; distribution planning processes and methods, such as forecasting, power flow analysis, and cost/benefit analysis; and stakeholder engagement.

**Continued**

**May 19, 1-4 p.m. Eastern**

**Planning and paying for distribution systems to achieve state goals**
This session will cover distribution system and grid modernization planning designed to achieve state goals, and enabling cost recovery for the required investments.

- 1-1:45 p.m. Eastern - Integrated distribution system and grid modernization planning - Paul De Martini, Newport Consulting
- 1:45-2:30 p.m. Eastern - Grid modernization investment economics, and review and assessment of grid modernization plans - Tim Woolf, Synapse Energy Economics
- 2:30-3:15 p.m. Eastern - Considerations for planning for resilience and equity - Rebecca O'Neil, PNNL
- 3:15-4 p.m. Eastern - Cost allocation - Dan Boff, PNNL

June 9, 2-3 p.m. Eastern
Delivering grid modernization value by design
Seemita Pal and Ron Melton, PNNL
This session will cover grid architecture for planning and design of electric systems to get the grid structure "right" so all the pieces fit into place, downstream decisions are simplified, and investments can be future-proofed. The session also will cover oversight of enterprise-wide efforts, including what utilities need to have in place, such as billing systems, staffing levels and experience operating systems.

June 16, 2-3 p.m. Eastern
State regulatory approaches for distribution planning
Lisa Schwartz and Natalie Mims Frick, Berkeley Lab, and Juliet Homer, PNNL
This session will present the variety of ways states are engaging in electric distribution system planning, including example state requirements, regulatory practices, plan components and emerging issues.

June 30, 1-3 p.m. Eastern
States' roundtable
NECPUC members will share planning processes and discuss hot planning topics in New England.