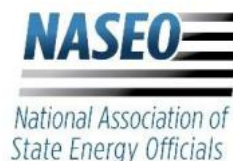




NARUC
National Association of
Regulatory Utility Commissioners



Bulk Power System Learning Modules

Educational Training for Regulators Amidst an Evolving Electricity System

Thursday, May 18, 2023 | Energy Adequacy and Capacity Accreditation

- 1:00 pm (ET) Introduction and orientation to training sessions – *Elliott Nethercutt, NARUC and Dr. Debra Lew, ESIG*
- 1:10pm Considering Energy in Adequacy Studies – *Aidan Tuohy, EPRI*
- 1:35pm Resource adequacy for resource planning – *Elaine Hart, Moment Energy Insights*
- 2:05pm Resource adequacy and capacity accreditation – *Derek Stenclik Telos*
- 2:45pm Break
- 2:50pm Example and perspective from a multi-state RTO – *James Okullo ESIG*
- 3:15pm Cross-cutting questions
- 3:30pm Breakout rooms (opportunity to direct questions to individual speakers)
- 4:00pm Adjourn

Thursday, June 1, 2023 | Electrification and Load Forecasting

- 1:00pm (ET) Introduction and orientation to training sessions – *Dr. Debra Lew, ESIG*
- 1:05pm Introduction – climate change impacts on future weather; great uncertainty in future demand due to impacts of electrification; policy incentives that accelerate electrification – *Josh Novacheck, NextEra*
- 1:15pm Load forecasting from legacy best practices to modern day practices including EVs – *Andy Sukenik, Itron*
- 2:00pm Bottom-up approaches on electrification impacts on load forecasting including building electrification – *Ryan Jones, Evolved Energy Research*
- 2:40pm Break
- 2:45pm Industrial electrification and hydrogen – *Aidan Tuohy EPRI*

- 3:15pm Cross-cutting questions
- 3:30pm Breakout rooms (opportunity to direct questions to individual speakers)
- 4:00pm Adjourn

Thursday, June 8, 2023 | Integration of Utility-Scale Storage

- 1:00pm (ET) Introduction and orientation to training sessions – *Dr. Debra Lew, ESIG*
- 1:05pm Overview of electrical storage, the role of batteries versus long-duration storage and when and where storage is needed – *Paul Denholm, NREL*
- 1:45pm Thermal storage – *Max Tuttleman, Adhoc Group*
- 2:05pm Market design and other considerations for battery charging/discharging; how ISO's schedule and dispatch batteries; review of the 2022 stress event in CAISO – *Nikita Singhal, EPRI*
- 2:25pm Break
- 2:30pm Solar/storage hybrid projects; hybrids as a modular resource rather than individual components – *Mark Ahlstrom Nextera*
- 2:50pm Grid-forming battery storage – *Julia Matevosyan, ESIG*
- 3:15pm Cross-cutting questions
- 3:30pm Breakout rooms (opportunity to direct questions to individual speakers)
- 4:00pm Adjourn