



Training on Integrated Distribution System Planning for Midwest/MISO Region — Webcast October 13-15, 2020

AGENDA (Central time)

October 13 - Distribution Systems and Operation

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| 12:30 – 12:45 pm | Welcome and opening remarks – Organization of MISO States (Marcus Hawkins), Kerry Worthington (NARUC), Kirsten Verclas (NASEO), Joe Paladino and Monica Neukomm (USDOE), and Lisa Schwartz (LBNL) |
| 12:45 – 1:45 pm | Distribution components, systems and operations – Kevin Schneider (PNNL) and Emma Stewart (LLNL) |
| 1:45 – 2:45 pm | Integration, management and control of distributed energy resources (DERs) – Patrick Dalton (ICF) and Rois Langner (NREL) |
| 2:45 – 3:00 pm | Break |
| 3:00 – 3:45 pm | Transmission/distribution operational coordination – Jeffrey Taft (PNNL) and Paul De Martini (Newport Consulting Group) |
| 3:45 – 4:30 pm | Communications, sensors and cybersecurity 101 – Emma Stewart (LLNL) |

October 14 - Integrated Distribution System Planning Processes

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| 12:30 – 1:00 pm | Distribution system planning components – Paul De Martini (Newport Consulting Group) |
| 1:00 – 2:00 pm | Emerging distribution planning analyses: <i>Forecasting loads with DERs, hosting capacity and interconnection, locational net benefits, non-wires</i> |

analysis and DER sourcing – Ben Sigrin (NREL), Patrick Dalton (ICF) and Debbie Lew (Debra Lew LLC)

- 2:00 – 2:15 pm** Break
- 2:15 – 3:00 pm** Integrated distribution resilience planning – Paul De Martini (Newport Consulting Group)
- 3:00 – 3:45 pm** Grid modernization planning and investment economics – Paul De Martini (Newport Consulting Group) and Fritz Kahrl (3rdRail)
- 3:45 – 4:30 pm** Distribution planning regulatory practices – Lisa Schwartz (LBNL) and Juliet Homer (PNNL)

October 15 - Demand Flexibility

- 12:30-1:15 pm** Impacts of DERs on net loads and approaches for actively managing load shapes – Chandler Miller (LBNL) and Matt Leach (NREL)
- 1:15 – 2:00 pm** Demand flexibility as a utility system resource – Natalie Mims Frick (LBNL)
- 2:00 – 2:15 pm** Break
- 2:15 – 3:30 pm** Planning for energy storage and microgrids – Jeremy Twitchell (PNNL) and Andrew Mills (LBNL)
- 3:30 – 4:30 pm** Planning for electric vehicles and strategies for managing charging – Doug Black and Jason MacDonald (LBNL), Michael Kintner-Meyer (PNNL)