



Distribution Systems and Planning Training for Midwest Public Utility Commissions

Jan. 16-17, 2018
Minnesota Public Utilities Commission – Large Hearing Room
121 7th Place East, Suite 350, St. Paul, MN 55101

AGENDA Slides at <https://emp.lbl.gov/node/2818>

Jan. 16, 2018

TIME	TOPIC
9:00 – 9:15 am	Welcome and opening remarks – Chair Nancy Lange (Minnesota PUC), Kerry Worthington (NARUC), Tanya Paslawski (OMS), Lisa Schwartz (Berkeley Lab)
9:15 – 10:45 am	Distribution systems 101 – Kevin Schneider (PNNL) and Emma Stewart (LLNL)
10:45 – 11:00 am	Break
11:00 am – 12:30 pm	Utility distribution planning 101 – Mike Coddington (NREL) and Kevin Schneider (PNNL)
12:30 – 1:15 pm	Lunch and presentation U.S. DOE's Next Generation Distribution System Platform (DSPx) – Joe Paladino, DOE <ul style="list-style-type: none">• Distribution grid evolution• Integrated planning considerations• Architectural considerations• Timing and pace considerations, with examples
1:15 – 1:30 pm	Break
1:30 – 3:00 pm	Distributed energy resources – Mike Coddington (NREL), Emma Stewart (LLNL), Rebecca O'Neil (PNNL)



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3:00 – 3:15 pm	Break

3:15 – 4:15 pm	Distribution system controls and automation – Barry Mather (NREL) and Kevin Schneider (PNNL)
4:15 – 5:00 pm	Metrics and valuation frameworks for distribution system planning and proposed investments – Michael Kintner-Meyer (PNNL)

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TIME	TOPIC
8:30 – 9:15 am	Reliability metrics and reliability value-based planning – Joe Eto (LBNL)
9:15 – 9:45 am	PUC distribution planning practices – Lisa Schwartz (LBNL)
9:45 – 10:00 am	Break
10:00 – 11:00 am	Regulation of modernizing power distributors: Lessons from research on performance-based regulation – Mark Lowry, Pacific Economics Group
11:00 am – 12:00 pm	Forecasting load on the distribution and transmission system with distributed energy resources – Andrew Mills (LBNL)
12:00 – 12:45 pm	Lunch
12:45 – 1:45 pm	Emerging distribution planning analyses – Debra Lew, GE Energy Consulting <ul style="list-style-type: none"> • Multiple scenario forecasts • Hosting capacity analysis • Locational net benefits analysis
1:45 – 2:45 pm	Walk-through of long-term utility distribution plans: Traditional plans, grid modernization plans, and plans for high levels of distributed energy resources - Lavelle Freeman and Debra Lew, GE Energy Consulting
2:45 – 3:00 pm	Break
3:00 – 4:00 pm	Walk-through of long-term utility distribution plans (<i>continued</i>)
4:00 – 5:00 pm	Impacts of distributed energy resources on transmission systems: The distribution/transmission interface – Randy Berry and John Miller, Power Systems Consultants, Inc.
