

AGENDA

Staff Workshop on Research Needs for Renewable Energy Forecasting



January 17, 2017
9:00 a.m.

CALIFORNIA ENERGY COMMISSION
1516 Ninth Street
1st Floor, Rosenfeld Hearing Room
Sacramento, California

Join the California Energy Commission and experts in solar, wind, distributed energy resource (DER) and load forecasting for a discussion on challenges and opportunities for renewable energy forecasting in California.

- 9:00 Welcome and Introduction
- 9:05 Staff Presentation: Overview of Solar and Wind Forecasting R&D Funded by the Energy Commission
Rizaldo Aldas, California Energy Commission
- 9:15 **Panel 1:** Renewable Energy Forecasting Research Opportunities and Solutions to Support Modern Grid.

This panel will bring together renewable energy forecasting researchers and developers to discuss forecasting quality and future forecasting solutions in the pipeline, including identification of research opportunities on data sets, and forecasting instruments and models for attaining an efficient power system operation in California.

Staff Coordinator: Silvia Palma-Rojas, California Energy Commission

Facilitator: Melinda Marquis, National Oceanic and Atmospheric Administration -
Earth System Research Laboratory

Panelists: Case van Dam, University of California Davis
Carlos Coimbra, University of California San Diego
Frank Monforte, Itron, Inc
Ben Norris, Clean Power Research
John Zack, AWS Truepower
Aiden Tuohy, Electric Power Research Institute
Rob Farber, Independent Consultant

- 10:50 Open Q&A, Public Comments
- 11:00 Break
- 11:10 **Panel 2:** Forecasting Gaps, Building a Sensor Network, and Managing Costs

This panel will focus on the forecasting needs of grid operators, deployment of sensors to improve grid monitoring, adjustments to operational practices to manage uncertainty, and discussing potential costs and values of improved forecasting and sensor deployment. Discussion will include key anticipated trends that will impact forecasting capabilities and other areas not earlier considered or addressed.

Staff Coordinator: Angie Gould, California Energy Commission

Facilitator: William Shaw, Pacific Northwest National Laboratory – Department of
Energy

Panelists: Kevin Clifford, Pacific Gas & Electric
Rick Aslin, Pacific Gas & Electric
Amber Motley, California Independent System Operator
Benjamin Lee, Southern California Edison
TJ Vargas, Sacramento Municipal Utility District
Pjoy Chua, Los Angeles Department of Water and Power
Scott Winner, Bonneville Power Administration
Clinton MacDonald, Sonoma Technology Inc.

1:00 Open Q&A, Public Comments
1:20 Key Takeaway/Recommendations and Closing Remarks

To join this meeting via WebEx please use the following information:

Go to <https://energy.webex.com>
Access code: 927 701 019. No Password Required.
Call-in-toll-free number: 1-866-469-3239

For more information, please see the notice and other documents at:
www.energy.ca.gov/research/notices/#01172017.

To provide written comments, please send an email to Rizaldo.Aldas@energy.ca.gov. The deadline for comments is January 20, 2017 at 5 p.m. PST.