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# Scoping Workshop: Identifying Research Gaps to Improve Predictability of Behind the Meter Resources- Grid Operator Perspectives

## Date, Time, and Virtual Connection:

Monday, May 6, 2024

10:00 am- 11:30 am PST

Join Zoom Meeting -

<https://energy.zoom.us/j/82862819348?pwd=OVBjOGVnQ2FCY3gwcjhjY2dIMXZKUT09> - Webinar ID 828 6281 9348 and Password 'forecast'.

Join by Telephone - Call toll-free at (888) 475-4499 Webinar ID 828 6281 9348, press “#” twice. No passcode is required when joining by telephone.

## Presenter:

John Rudolph - Lead Forecast Modeler on CAISO's short-term forecasting team.

## Audience:

CEC Staff, IOUs, DER Aggregators, Ratepayers, Community Choice Aggregators (CCA), Energy Research and Development Organizations.

## Workshop Objectives:

The purpose of this workshop is for CEC staff to gather information on the current gaps that exist in the forecasting tools used to monitor and predict the behavior of behind the meter (BtM) distributed energy resources (DERs); such as Solar PV, Battery Energy Storage, Electric Vehicles, and other load flexibility devices - particularly those resources not participating in the wholesale energy markets. In addition, this workshop will be an opportunity to gather public comment on what are the some of the possible solutions to address some of the research gaps presented in this workshop by the California Independent System Operator, CAISO.

## Agenda Items:

### Introduction (10 min):

- Overview of the Electric Program Investment Charge (EPIC) 4 investment plan, Topic 13: Improving Forecasts of BtM Solar, Storage, and Load Flexibility Resources.
- Background about DER growth in California and how improvements in DER forecasting tools will impact ratepayers.
- Description of scoping plan for a possible future grant funding opportunity.
- Introduction to main CAISO speaker, John Rudolph.

### CAISO presentation by John Rudolph (60 min):

- Overview on day ahead and real-time forecasting and the critical need for accurate forecasting.
- Overview on the short-term forecasting process and its importance to market operators.
- Current tools and data utilized by CAISO for short-term forecasting.

- Prioritization on DER related risks for short-term forecasting and current gaps in short-term forecasting.
- Current efforts that CAISO performs to address some of the gaps in short-term forecasting and the importance of improving forecasting.
- Prioritization in advancement of forecasting tools for the present and the future.

#### Q&A Portion (20 min):

The Question and Answer (Q&A) portion of the workshop will be an opportunity for the audience to participate and ask questions to the presenter or make suggestions on potential research solutions for the gaps that CAISO presented during the workshop. There will be an opportunity for CAISO to ask questions to the audience on possible priorities and solutions on the topic.

Please fill out this survey at the end of the workshop, thank you.

<https://forms.office.com/g/pZAidPJzcN>