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CALIFORNIA ENERGY COMMISSION
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CEC-70 (Revised 7/22)

IN THE MATTER OF:	DOCKET NO. 23-ERDD-01
Identifying Research Gaps to Improve Predictability of Behind-the-Meter Resources: Grid Operator Perspectives	NOTICE OF REMOTE-ACCESS WORKSHOP RE: Scoping workshop for improvements on forecasting behind-the-meter DERs.

Notice of "Scoping Workshop: Identifying Research Gaps to Improve Predictability of Behind the Meter Resources — Grid Operator Perspectives" Workshop

May 16, 2024

09:30 a.m. –11:00 a.m.
Remote Access Only
See Attendance Instructions.

The California Energy Commission (CEC) will host an informational workshop in collaboration with the California Independent System Operator (CAISO) to discuss current tools being used by grid operators to predict the behavior of behind-the-meter (BtM) distributed energy resources (DERs) – such as solar photovoltaic (PV), battery energy storage, electric vehicles, and load flexibility technologies – for informing grid operation. The workshop will discuss research needs in this area that could be supported by future grant funding opportunities under the Electric Program Investment Charge (EPIC) research program.

The public can participate in the workshop consistent with the attendance instructions below. The CEC aims to begin promptly at the start time posted, and the end time is an estimate based on the proposed agenda. The workshop may end sooner or later than the posted end time.

Agenda

The workshop will start with an introduction from the CEC staff on the 2021-2025 EPIC investment plan and the need to fund research on BtM forecasting of DERs. There will be a presentation by staff from CAISO covering the current tools used for forecasting, technological advancements for the improvement of current tools, the need for accurate BtM forecasting, and future considerations for improving forecasts of DERs. The workshop will conclude with a Question-and-Answer session, with a public comment period to follow.

A detailed agenda will be posted prior to the workshop at https://www.energy.ca.gov/events .

Background
The CEC administers the Electric Program Investment Charge (EPIC), established by the California Public Utilities Commission (CPUC) in 2011 to fund research leading to technological advancements and scientific breakthroughs supporting California's clean energy goals, with a focus on providing ratepayer benefits, including reliability, lower costs, and safety. The EPIC 4 investment plan identifies the program's strategic objectives and describes how the CEC plans to allocate research funding from 2021 – 2025. As part of an objective to increase the value proposition of DERs to customers and the grid, the EPIC 4 investment plan highlighted a need to improve forecasts of BtM solar, storage, and load flexibility resources. Innovations in solar forecasting methods are needed to guide effective integration of new solar PV capacity into the electric gid, ease the use of battery storage to address ramping needs, and ultimately, enhance grid reliability. Improvements in forecasting methods can allow CAISO and other grid operators to forecast net load more accurately and strategically determine reserves to meet the predicted demand, particularly in cases of heat waves, wildfire smoke, and other extreme events. Such forecasting tools could help grid operators more effectively plan for unusual, but costly, day-ahead forecast scenarios and develop more precise day-of dispatch strategies and incentive structures for flexible loads and other DER as well as form a basis for developing forecasts of load and DER response to dynamic prices and grid signals. Furthermore, more accurate forecasting methods will reduce the need to build additional ramping capacity, leading to lower electricity rates and improved system resilience to wildfires and other relevant climate conditions.

Attendance Instructions

Remote participants may join via Zoom by internet or phone.

- **To join via Zoom.** Click on https://energy.zoom.us/j/82862819348?pwd=OVBjOGVnQ2FCY3gwcjhjY2dIMXZKUT09 or login in at https://join.zoom.us/ and enter the Webinar ID 828 6281 9348 and password 'forecast' and follow all prompts.
- **To join by telephone.** Call toll-free at (888) 475-4499 or toll at (669) 219-2599. When prompted, enter the Webinar ID 828 6281 9348 and press "#" twice. No passcode is required when joining by telephone.

Public Comment.
The CEC encourages the use of its electronic commenting system. Visit the e-commenting page for this docket **23-ERDD-01** at https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=23-ERDD-01. Enter your contact information and a subject title that describes your comment. Comments may be included in the "Comment Text" box or attached as a downloadable, searchable document in Microsoft® Word or Adobe® Acrobat®. The maximum file size allowed is 10 MB.

Oral comments will be accepted at the end of the workshop. Comments may be limited to three minutes or less per speaker and one person per organization. To comment via Zoom, use the "raise hand" feature so the administrator can announce your name and unmute you. To comment via telephone, press *9 to "raise your hand" and *6 to mute/unmute.

Written comments may be submitted to the Docket Unit by 5:00 p.m. on May 24, 2024.Written and oral comments, attachments, and associated contact information (including address, phone number, and email address) will become part of the public record of this proceeding with access available via any internet search engine. Written comments may also be submitted by email. Include docket number 23-ERDD-01 and scoping workshop-DER forecasting in the subject line and email to docket@energy.ca.gov.
A paper copy may be mailed to:
California Energy Commission
Docket Unit, MS-4
Docket No. 23-ERDD-01
715 P Street
Sacramento, California 95814

Public Advisor. The CEC's Public Advisor assists the public with participation in CEC proceedings. To request assistance, interpreting services, or reasonable modifications and accommodations, call (916) 957-7910 or email publicadvisor@energy.ca.gov as soon as possible but at least five days in advance of the workshop. The CEC will work diligently to meet all requests based on availability.

Media Inquiries. Email mediaoffice@energy.ca.gov or call (916) 654-4989.

Technical Subject Inquiries. Email Alejandra Rios at alejandra.rios@energy.ca.gov or call (916) 738-0312.

General Inquiries: Email Alejandra Rios at alejandra.rios@energy.ca.gov at or call (916) 654-4989.

Availability of Documents: Documents and presentations for this meeting will be available at 23-ERDD-01, at https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=23-ERDD-01.

When new information is posted, an email will be sent to those subscribed to the EPIC, Research, Energy Research and Development, Forecasting, Distributed Generation, Resource Planning and Reliability To receive these notices or notices of other email subscription topics, visit Subscriptions, at https://www.energy.ca.gov/subscriptions.

Dated: April 16, 2024, at Sacramento, California.

Jonah Steinbuck
Director, Energy Research and Development Division

Subscriptions:
EPIC, Research, Energy Research and Development, Forecasting, Distributed Generation, Resource Planning and Reliability.