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Lawrence Berkeley National Laboratory Comments on CEC Scoping Workshop - DER Forecasting (docket # 23-ERDD-01)

Please see comments attached.

Additional submitted attachment is included below.

BERKELEY LAB
Bringing Science Solutions to the World

May 31st, 2024

Jonah Steinbuck
Director, Energy Research and Development Division
California Energy Commission
Docket Unit, MS-4
Docket No. 23-ERDD-01
715 P Street
Sacramento, California 9581

Re: Lawrence Berkeley National Laboratory Comments on CEC Scoping Workshop - DER Forecasting (docket # 23-ERDD-01)

Director Jonah Steinbuck,

On Thursday May 16th, Commission staff hosted the following Scoping Workshop: Identifying Research Gaps to Improve Predictability of Behind the Meter Resources — Grid Operator Perspectives. Berkeley Lab is pleased to present our comments in response to the aforementioned workshop:

> Berkeley Lab would like to request that CAISO share its preferred error metrics and their target values for DER forecasting especially for EV and DR.
>
> We would also like to further understand how CAISO envisions market clearing and resource dispatch working once a “common DER data sharing platform” (as described in the presentation) is built out allowing for data sharing between CAISO and distribution operators. More specifically, how would distribution grid constraints be factored into market clearance and dispatch decisions if that is part of the vision? And, under such a platform, would CAISO share its DER forecast based on DER characteristics and then share its forecast with distribution operators, or would distribution operators perform separate forecasting for their operation needs?
>
> Additionally, Berkeley Lab requests additional information regarding what communication protocol(s) are currently being considered for communication between CAISO and distribution operators.
>
> Lastly, we encourage CAISO to consider creating a process for demand flexibility from dynamic pricing programs in the future to be accounted for in the CAISO market through demand side bidding as opposed to supply side. The state is mandating that IOUs offer real time pricing rates to all customer classes by 2027. When these programs scale up in the future, the current way of accounting demand resources from the supply side is

not a sustainable model as it fundamentally erodes the supply/demand market design principles.

Berkeley Lab appreciates the opportunity to provide these comments in response to the following Scoping Workshop: Identifying Research Gaps to Improve Predictability of Behind the Meter Resources — Grid Operator Perspectives.

The following individuals contributed comments: Jingjing Liu.

Sincerely,
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