

DOCKETED

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SCE Comments on CEC EPIC Climate Transition Workshop

Additional submitted attachment is included below.

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Project Title:	Research Idea Exchange
TN #:	236715
Document Title:	Southern California Edison Company Comments on the CEC's Staff Workshop Research to Support a Climate Resilient Transition to a Clean Electricity System
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Southern California Edison (SCE) appreciates the opportunity to provide the California Energy Commission (CEC) comments on their recent staff workshop regarding Research to Support a Climate Resilient Transition to a Clean Electricity System. The CEC's workshop and upcoming solicitation focuses on the following two areas:

- Assessing and improving the climate resilience of an electricity system in transition; and
- Resiliency of solar, wind, and hydropower generation in a changing climate.

SCE agrees with the CEC's identified objectives and provides the following comments in support:

In order to achieve a zero-carbon electricity system as directed by the goals of Senate Bill (SB) 100, grid planning and modeling will be critical, in order for California to successfully transition. To support this transition, more accurate planning and modeling of the electric system will be critical. However, to enable more accurate grid planning and modeling, climate data will need to be improved. SCE provides the following recommendations to improve the granularity, access, and quality of climate data for future grid planning and modeling purposes:

As the climate changes, a key priority for SCE is to improve the mitigation of wildfires in our service territory. Critical to improving mitigation of wildfires is to better understand wind and fuel. Currently, Cal-Adapt climate data is focused primarily on summer, fuel driven fires. However, as the climate changes seasons other than summer have the ability to ignite wildfires. As such, it would be beneficial to better understand the granularity of winter wind changes in El Niño-Southern Oscillation (ENSO) patterns and improve vegetation forecasts. In regard to vegetation forecasts, it would be useful to have the ability to quantify the amount of fuel in the local environment, as well as quantifying fuel moisture.

In addition to data granularity and its importance to mitigating the threat of wildfires, improvements to data access and quality would be beneficial for grid planning and modeling. SCE recommends expanding the observed, gridded data through the present day, since currently Cal-Adapt observed data only spans from 1950 to 2005. SCE also recommends expanding access on Cal-Adapt's Cal-Adapt Application Programming Interface (API) to the full suite of California Global Climate Models (GCMs), since currently Cal-Adapt only hosts 10 of the 32 available GCMs on its API. Lastly, SCE recommends for load forecasting and resource planning activities to create the ability to provide downscaled projections, which cover the entirety of the Western Electricity Coordinating Council (WECC).

As a fellow Electric Program Investment Charge (EPIC) administrator, SCE looks forward to continue collaborating with the CEC on advancing grid resiliency to mitigate the effects of a changing climate. Improvements to data to account for climate change will improve future grid planning and modeling, which will support California's transition to a clean energy future.