

CALIFORNIA ENERGY COMMISSION1516 Ninth Street
Sacramento, California 95814Main website: www.energy.ca.gov**Item 5**

Notice of Availability

California Energy Demand 2020 - 2030 Forecast

On December 2, 2019, the California Energy Commission (CEC) conducted a workshop to present and discuss the *California Energy Demand 2020 – 2030 Forecast* (CED 2019). CED 2019 provides 10-year forecasts for electricity demand in California and for major utility planning areas within the state. CED 2019 will serve as a key input into a number of planning and procurement efforts, including transmission and distribution system planning, integrated resource planning, and resource adequacy assessments.

Following the workshop, CEC staff, in response to stakeholder comments, made further revisions to CED 2019. Staff adjusted the CED 2019 forecasts of behind-the-meter battery storage to reflect additional systems indicated by the Public Utilities Commission's most recent Rule 21 interconnection data set. After considering additional input from utilities and the California Independent System Operator, staff also adjusted its estimates of 2019 weather-normalized peak loads, which serve as the starting point for CED 2019 peak forecasts.

The following documents constituting CED 2019 will be considered for adoption at the January 22, 2020 CEC Business Meeting.

Baseline Demand Forecast Files

TN 231499 CED 2019 Forecast - BUGL High Demand Case
TN 231500 CED 2019 Forecast - IID High Demand Case
TN 231501 CED 2019 Forecast - NCNC High Demand Case
TN 231502 CED 2019 Forecast - LADWP High Demand Case
TN 231503 CED 2019 Forecast - SDGE High Demand Case
TN 231504 CED 2019 Forecast - SCE High Demand Case
TN 231505 CED 2019 Forecast - PGE High Demand Case
TN 231506 CED 2019 Forecast - STATE High Demand Case
TN 231507 CED 2019 Forecast - SMUD High Demand Case
TN 231508 CED 2019 Forecast - BUGL Low Demand Case
TN 231509 CED 2019 Forecast - NCNC Low Demand Case
TN 231510 CED 2019 Forecast - LADWP Low Demand Case
TN 231511 CED 2019 Forecast - IID Low Demand Case
TN 231512 CED 2019 Forecast - SMUD Low Demand Case

TN 231513 CED 2019 Forecast - SDGE Low Demand Case
TN 231514 CED 2019 Forecast - SCE Low Demand Case
TN 231515 CED 2019 Forecast - PGE Low Demand Case
TN 231516 CED 2019 Forecast - STATE Low Demand Case
TN 231517 CED 2019 Forecast - BUGL Mid Demand Case
TN 231518 CED 2019 Forecast - LADWP Mid Demand Case
TN 231519 CED 2019 Forecast - IID Mid Demand Case
TN 231520 CED 2019 Forecast - SCE Mid Demand Case
TN 231521 CED 2019 Forecast - PGE Mid Demand Case
TN 231522 CED 2019 Forecast - NCNC Mid Demand Case
TN 231523 CED 2019 Forecast - STATE Mid Demand Case
TN 231524 CED 2019 Forecast - SMUD Mid Demand Case
TN 231525 CED 2019 Forecast - SDGE Mid Demand Case

Hourly Demand Forecast Files

TN 231571 CED 2019 Hourly Results - SDGE - MID-HIGH
TN 231570 CED 2019 Hourly Results - SDGE - LOW-HIGH
TN 231569 CED 2019 Hourly Results - SDGE - MID-MID
TN 231568 CED 2019 Hourly Results - SDGE - HIGH-LOW
TN 231567 CED 2019 Hourly Results - SCE - MID-MID
TN 231566 CED 2019 Hourly Results - SCE - MID-LOW
TN 231565 CED 2019 Hourly Results - SDGE - MID-LOW
TN 231564 CED 2019 Hourly Results - SCE - MID-HIGH
TN 231563 CED 2019 Hourly Results - SCE - LOW-HIGH
TN 231562 CED 2019 Hourly Results - SCE - HIGH-LOW
TN 231561 CED 2019 Hourly Results - PGE - MID-MID
TN 231560 CED 2019 Hourly Results - PGE - LOW-HIGH
TN 231559 CED 2019 Hourly Results - PGE - MID-HIGH
TN 231558 CED 2019 Hourly Results - PGE - MID-LOW
TN 231557 CED 2019 Hourly Results - CAISO - MID-HIGH
TN 231556 CED 2019 Hourly Results - CAISO - MID-LOW
TN 231555 CED 2019 Hourly Results - CAISO - MID-MID
TN 231554 CED 2019 Hourly Results - PGE - HIGH-LOW
TN 231553 CED 2019 Hourly Results - CAISO - HIGH-LOW
TN 231552 CED 2019 Hourly Results - CAISO - LOW-HIGH

Other Demand Forecast Files

TN 231576 CED 2019 - AAEE Savings by Planning Area and End Use
TN 231551 CED 2019 - Managed 1-in-2 Monthly Peak Load by CAISO TAC

These documents are available on the CEC website. [IPER Document Link](#)

Public Advisor and Other Commission Contacts

The Public Advisor's Office provides the public with assistance in participating in CEC proceedings. For information on how to participate please contact Public Advisor, Noemi O. Gallardo, at publicadvisor@energy.ca.gov , (916) 654-4489, or toll free at (800) 822-6228.

Media inquiries should be sent to the Media and Public Communications Office by email at MediaOffice@energy.ca.gov or (916) 654-4989

If you have technical questions about these documents, please contact Cary Garcia by email at Cary.Garcia@energy.ca.gov or by phone at (916) 654-4698

Mail Lists: [energypolicy](#)

**STATE OF CALIFORNIA
ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION**

In the Matter of:)	Docket No. 19-IEPR-03
)	Resolution No.
THE 2019 INTEGRATED ENERGY)	
POLICY REPORT)	
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**RESOLUTION OF THE ENERGY COMMISSION ADOPTING THE
CALIFORNIA ENERGY DEMAND FORECAST, 2020-2030**

WHEREAS, Public Resources Code section 25301(a) requires the Energy Commission to "conduct assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery and distribution, demand, and prices" and to "use these assessments and forecasts to develop and evaluate energy policies and programs that conserve resources, protect the environment, ensure energy reliability, enhance the state's economy, and protect public health and safety"; and

WHEREAS, the Integrated Energy Policy Report (IEPR) contains these assessments and associated policy recommendations and is adopted every two years, with an IEPR Update being adopted each interim year; and

WHEREAS, the Commission held workshops on March 4, 2019, August 15, 2019 and December 2, 2019 and Demand Analysis Working Group Meetings were held on June 14, 2019, June 19, 2019, August 1, 2019, September 18, 2019, October 18, 2019, November 14, 2019 and November 21, 2019 to discuss the California Energy Demand 2020-2030 forecast (CED 2019); and

WHEREAS, on January 17, 2020, staff docketed the Notice of Availability for the CED 2019, which identifies the documents that make up the forecast, including forecasts for electricity and natural gas consumption, retail electricity sales, and peak and hourly demand for each of the major planning areas and for the state as a whole; and

WHEREAS, the CED 2019 provides forecasts which reflect expected impacts from recent economic and demographic projections, projections of electric vehicle adoption, and projections of behind-the-meter photovoltaic and storage system adoption and which are consistent with the latest historical data available for consumption, peak demand, temperatures, electricity rates, and energy efficiency program activity; and

WHEREAS, CED 2019 includes three baseline scenarios designed to capture a reasonable range of demand outcomes during the next 10 years; and

WHEREAS, CED 2019 also includes six additional achievable energy efficiency (AAEE) savings scenarios developed. Paired with baseline scenarios, these form managed demand forecasts for planning purposes; and

WHEREAS, CED 2019 will serve as a key input into a number of planning and procurement efforts, including transmission and distribution system planning, integrated resource planning, resource adequacy, and other studies and proceedings; and

WHEREAS, consistent with an agreement among leadership at the Energy Commission, the Public Utilities Commission, and the California Independent System Operator, specific variants of the adopted demand forecast to be used in individual applications are described as the “single forecast set agreement” in the text of Chapter 7 of the 2019 IEPR; and

WHEREAS, the Commission has considered all comments received on the CED 2019; and

THEREFORE BE IT RESOLVED, the California Energy Commission hereby adopts the CED 2019 along with any changes identified at its January 22, 2020 Business Meeting, directs Commission staff to make the forecast available to the public and the Legislature and to incorporate the results of the CED 2019 into the 2019 Integrated Energy Policy Report.

It is so Ordered.

CERTIFICATION

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the California Energy Commission held on January 22, 2020.

AYE:

NAY:

ABSENT:

ABSTAIN:

Secretariat
California Energy Commission
Dated: January 22, 2019