


**DOCKETED**

<b>Docket Number:</b>	22-IEPR-03
<b>Project Title:</b>	Electricity Forecast
<b>TN #:</b>	242480
<b>Document Title:</b>	Notice of IEPR Staff Workshop on Demand Scenarios
<b>Description:</b>	4.7.22 - Notice of IEPR Staff Workshop on Demand Scenarios
<b>Filer:</b>	Raquel Kravitz
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	3/28/2022 2:04:46 PM
<b>Docketed Date:</b>	3/28/2022

--	--	--

STATE OF CALIFORNIA — NATURAL RESOURCES AGENCY	Gavin Newsom, Governor
<b>CALIFORNIA ENERGY COMMISSION</b> 715 P Street Sacramento, California 95814 <a href="http://Energy.ca.gov">Energy.ca.gov</a> CEC-70 (Revised 2/2021)	

<i>IN THE MATTER OF:</i>  <i>2022 Integrated Energy Policy Report Update          (2022 IEPR Update)</i>	Docket No. 22-IEPR-03  NOTICE OF STAFF WORKSHOP  RE: Demand Scenarios
--	---

**Notice of IEPR Staff Workshop on Demand Scenarios**  
**Thursday, April 7, 2022**  
**1:00 p.m.— 5:00 p.m.**

**In-person at:**

Warren-Alquist State Energy Building  
 Imbrecht Hearing Room, First Floor  
 1516 9<sup>th</sup> Street, Sacramento, California 95814  
 (Wheelchair Accessible)

**Remote Option via Zoom™**

<https://zoom.us/>, webinar ID: **988 3533 9548** and passcode: **IEPR2022**

The California Energy Commission (CEC) staff will host a workshop to present inputs, assumptions, and results for the Demand Scenarios Project previously described in the *2021 Integrated Energy Policy Report, Volume IV: California Energy Demand Forecast*. CEC staff will also provide a status report on the parallel inter-agency effort to develop a scenario for the California Public Utilities Commission (CPUC) and the California Independent System Operator (California ISO) to use in their resource planning and transmission system planning processes. CPUC staff will also be using this parallel scenario to inform their distribution system assessments.

Vice Chair Siva Gunda will be the CEC’s Lead Commissioner for the *2022 IEPR Update*. A quorum of commissioners may participate in person, but no votes will be taken.

The public can participate in the workshop consistent with the direction provided below. Please note that the CEC aims to begin promptly at the start time posted and the end time is an estimate based on the agenda proposed. The workshop may end sooner or later than the posted end time depending on various factors.

## Attendance Instructions

**In-person:** Participants may join in-person at the following location: Warren-Alquist State Energy Building, Imbrecht Hearing Room, first floor, 1516 Ninth Street, Sacramento, California 95814.

**Remote participation:** Participants may join remotely via Zoom by internet or by phone.

- **To participate by computer using Zoom's online platform**, click on this [link](https://energy.zoom.us/j/98835339548?pwd=OUFVWDRnQnpMOEprTG5xcDVsYnFjUT09) (https://energy.zoom.us/j/98835339548?pwd=OUFVWDRnQnpMOEprTG5xcDVsYnFjUT09) or by logging in via Zoom™ at <https://zoom.us/>, entering the unique **webinar ID: 988 3533 9548** and **passcode: IEPR2022**, and following all prompts.
- **To participate by telephone**, call toll-free at (888) 475-4499 or at (669) 219-2599. When prompted, enter the webinar ID: 988 3533 9548 and passcode: IEPR2022.

If you experience difficulties joining, contact Zoom at (888) 799-9666 ext. 2, or the Public Advisor at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov), or by phone at (916) 957-7910.

Attendees using a computer can access **Zoom's closed captioning service** by clicking on the "live transcript" icon and then choosing either "show subtitle" or "view full transcript." The closed captioning service can be stopped by closing out of the "live transcript" or selecting the "hide subtitle" icon. If using a phone, closed captioning is automatic and cannot be turned off. While the closed captioning is available in real-time, it typically includes errors. A more accurate transcript of the workshop developed by a professional court reporter will be docketed and posted in a later timeframe.

## Background

CEC staff launched a project during the 2021 IEPR proceeding focused on developing long-term demand scenarios to assess energy demand impacts and greenhouse gas (GHG) emission reductions from existing and near-term policies. These long-term demand scenarios complement the traditional 10-year electricity and gas demand forecast used for energy planning and procurement purposes. The project focuses on developing annual energy consumption for all energy types and GHG emissions out to 2050 for varying degrees of electrification. As part of the 2021 IEPR proceeding, staff presented an overview of the demand scenarios at a workshop held on December 2, 2021.

To develop the long-term energy demand and GHG emission estimates, CEC staff have been collaborating with Energy and Environmental Economics, Inc. (E3) to adapt their PATHWAYS model (Adapted PATHWAYS) to insert CEC fuel projections. Specifically, CEC staff and E3 are working to incorporate annual electricity and gas consumption projections for the residential and commercial sectors and projections for all transportation fuels into the Adapted PATHWAYS model. These CEC staff energy projections are substitutes for the comparable sector calculations within the original PATHWAYS model. For these sectors, Adapted PATHWAYS will be used to project energy consumption for other energy types, such as wood, kerosene, and liquefied petroleum gas. Energy projections for the other demand-side sectors (industry, agriculture, and water pumping) will be generated using the Adapted PATHWAYS Model. The model will also generate GHG emission projections associated with these energy projections.

In parallel to the Demand Scenarios Project, the CPUC raised the need for infrastructure assessments to support planning for higher electrification levels than what is currently included in the California Energy Demand Forecast. The CPUC, CEC, and California ISO staff are collaborating to design a scenario for use in transmission system assessments and resource assessments and to inform distribution system assessments. To satisfy both CPUC and California ISO input requirements, CEC staff is developing three elements:

- 1) Annual electricity consumption for all customer sectors through 2035.
- 2) Hourly electric loads for each year.
- 3) Allocation of peak load modifier impacts on individual transmission load busses as used in power flow studies.

To summarize, there are two closely related but distinct projects for which CEC staff is developing energy demand scenarios separate from, but complementing, the traditional demand forecast. For the original Demand Scenarios Project, the emphasis is total annual energy and the GHG emission consequences of shifts from gas to electricity over a time horizon out to 2050. For the inter-agency scenario that will be used for infrastructure assessments, the CEC staff is focusing solely on electricity. CEC staff will produce hourly load projections and allocate incremental loads to transmission load busses, which are essential to CPUC and California ISO infrastructure assessments.

## **Agenda**

As a follow up to the December 2, 2021, IEPR Commissioner Workshop during which CEC staff presented an overview of the demand scenarios project, CEC staff and E3 will present the final inputs, assumptions, and results of the demand scenarios.

CEC staff will also discuss the framework of a parallel scenario being developed as part of an inter-agency collaboration among the CEC, CPUC, and California ISO to assess higher levels of electrification than what was embedded within the CEC's adopted 2021 IEPR mid-mid managed demand forecast.

A detailed meeting schedule will be posted prior to the workshop at [2022 IEPR Workshops, Notices and Documents \(ca.gov\)](https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2022-integrated-energy-policy-report-update-0), <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2022-integrated-energy-policy-report-update-0>.

## **Public Comment**

**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. Depending on the number of members of the public seeking to make a comment, the facilitator may adjust the total time allotted for public comment and the time allotted for each comment.

If participating via Zoom's online platform, use the "raise hand" feature to alert the administrator that you would like to make a comment after the lead commissioner opens the floor for public comment.

If participating by telephone, press \*9 to "raise your hand" and \*6 to mute/unmute. A workshop administrator will call on you by announcing the last three digits of your phone number. Unmute your phone before introducing yourself and sharing your comment.

The Public Advisor may, upon the request of public participants who may be absent during the workshop when a matter of interest to them is being discussed, neutrally and publicly relate those participants' points to the CEC on behalf of the public. If you are interested in this service, please email concise comments, specifying your main points, before the start of the workshop to the Public Advisor at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov). Comments submitted after the workshop starts will be filed in the workshop docket.

**Written comments** must be submitted to the Docket Unit by 5:00 p.m. on [April 21, 2022](#).

The CEC encourages use of its electronic commenting system. Visit the [e-commenting page](#) at <https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=22-IEPR-03>, which links to the comment page for this docket. Enter your contact information and a comment title describing the subject of your comment(s). Comments may be included in the "Comment Text" box or attached as a downloadable, searchable document consistent with title 20 of the California Code of Regulations, section 1208.1. The maximum file size allowed is 10 MB.

Written comments may be submitted by email. Include docket number **22-IEPR-03** and Demand Scenarios in the subject line and email to [docket@energy.ca.gov](mailto:docket@energy.ca.gov).

If preferred, a paper copy may be sent to:

California Energy Commission  
Docket Unit, MS-4  
Docket No. 22-IEPR-03  
715 P Street  
Sacramento, California 95814-5512

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.

## **Public Advisor and Other CEC Contacts**

The CEC's Public Advisor provides the public with assistance in participating in CEC proceedings. For information about how to participate in this workshop or to request interpreting services or other reasonable modification and accommodations, reach out by phone at (916) 957-7910 or via email at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov). Requests for interpreting services, reasonable modifications, and accommodations should be made 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 the availability of the service or resource requested.

**Direct media inquiries** to [mediaoffice@energy.ca.gov](mailto:mediaoffice@energy.ca.gov) or (916) 654-4989.

**Direct technical subject inquiries** to Anitha Rednam at [anitha.rednam@energy.ca.gov](mailto:anitha.rednam@energy.ca.gov) or (916) 237-2524 and Mike Jaske at [mike.jaske@energy.ca.gov](mailto:mike.jaske@energy.ca.gov) or (916) 508-4798

**Direct general inquiries** regarding the IEPR proceeding to Raquel Kravitz at [raquel.kravitz@energy.ca.gov](mailto:raquel.kravitz@energy.ca.gov) or (916) 907-4284.

## **Availability of Documents**

Documents and presentations for this meeting will be available at [2022 Integrated Energy Policy Report Update \(ca.gov\)](https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2022-integrated-energy-policy-report-update) <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2022-integrated-energy-policy-report-update> or at [California Energy Commission: Docket Log](https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-IEPR-03), <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-IEPR-03>.

When new information is posted, an email will be sent to the list serves identified below. To receive notices about the IEPR, subscribe at [Integrated Energy Policy Report - IEPR | California Energy Commission](https://energy.ca.gov/data-reports/integrated-energy-policy-report) page, <https://energy.ca.gov/data-reports/integrated-energy-policy-report>. Manage existing list servers or sign up for others at [CEC List Servers](https://ww2.energy.ca.gov/listservers/index_cms.html), [https://ww2.energy.ca.gov/listservers/index\\_cms.html](https://ww2.energy.ca.gov/listservers/index_cms.html).

Dated: March 28, 2022, at Sacramento, California

List Servers: energypolicy, efficiency, electricity, naturalgas, transportation, DCAG

