

<b>DOCKETED</b>	
<b>Docket Number:</b>	20-IEPR-04
<b>Project Title:</b>	Microgrids
<b>TN #:</b>	233642
<b>Document Title:</b>	Notice of IEPR Commissioner Workshop on Assessing the Future Role for Microgrids in California
<b>Description:</b>	*** THIS DOCUMENT SUPERSEDES TN 233640 *** - As part of the 2020 Integrated Energy Policy Report Update (2020 IEPR Update), the California Energy Commission (CEC) will host a remote access workshop to gather information on trends in assessing the future role for microgrids in California. CEC Chair David Hochschild, the lead commissioner for the microgrid portion of the 2020 IEPR Update, will co-host this workshop with CEC Vice Chair Janea A. Scott. California Public Utilities Commission (CPUC) President Marybel Batjer, CPUC Commissioner Genevieve Shiroma and Steve Berberich, President and Chief Executive Officer of the California Independent System Operator, will also participate in the workshop
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<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
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**CALIFORNIA ENERGY COMMISSION**

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Main website: [www.energy.ca.gov](http://www.energy.ca.gov)  
CEC-70 (Revised 09/19)



In the matter of:	)	Docket No. 20-IEPR-04
	)	
<i>2020 Integrated Energy Policy Report Update</i>	)	NOTICE OF REMOTE ACCESS
<i>(2020 IEPR Update)</i>	)	WORKSHOP
	)	
_____	)	RE: Assessing the Future Role for Microgrids in California

## **Notice of IEPR Commissioner Workshop on Assessing the Future Role for Microgrids in California**

As part of the *2020 Integrated Energy Policy Report Update (2020 IEPR Update)*, the California Energy Commission (CEC) will host a remote access workshop to gather information on trends in assessing the future role for microgrids in California. CEC Chair David Hochschild, the lead commissioner for the microgrid portion of the 2020 IEPR Update, will co-host this workshop with CEC Vice Chair Janea A. Scott. California Public Utilities Commission (CPUC) President Marybel Batjer, CPUC Commissioner Genevieve Shiroma and Steve Berberich, President and Chief Executive Officer of the California Independent System Operator, will also participate in the workshop.

A quorum of commissioners from CPUC and CEC may participate, but no votes will be taken.

The workshop will be held remotely, consistent with Executive Orders N-25-20 and N-29-20 and the recommendations from the California Department of Public Health to encourage physical distancing to slow the spread of COVID-19. The public can participate in the workshop consistent with the direction in these Executive Orders. Instructions for remote participation are provided below.

The workshop will be held in three sessions over two days as follows:

**Tuesday, July 7, 2020**

- 10:00 AM: Session 1 – Assessing the Value and Role of Microgrids in California

**Thursday, July 9, 2020**

- 10:00 AM: Session 2 – Microgrids for Resiliency and Microgrid Economics
- 2:00 PM: Session 3 – Residential Microgrids and Emerging Microgrid Technologies

**Remote Access Only** - Remote access is available by internet and call in options via [Zoom](#).™ For details, go to the [CEC Zoom page](https://energy.zoom.us/) at <https://energy.zoom.us/>

## **Agenda**

Grid outages from wildfires and public safety power shutoffs (PSPS) have highlighted the need to increase the resiliency of communities, critical facilities, and individual customers to power shut offs and other risks to energy reliability. Microgrids are one of many options available that offer a solution to improving California's resiliency to wildfires and other risks. While current microgrids often include energy generation from fossil fuels, clean energy microgrids that use renewable generation have the potential to address adverse air quality impacts while helping meet the state's energy policy goals. The CEC's Energy Research and Development Division has invested in over 30 clean energy microgrid demonstration projects designed to provide support during short-term grid outages. Research results show promising applications and improving economics for clean energy microgrids. The *2020 IEPR Update* will include an assessment of the lessons learned from the CEC's microgrid research. The *2020 IEPR Update* will also put forward recommendations to help guide microgrid deployment statewide, including customers of investor-owned utilities, publicly owned utilities, and community choice aggregators to support a clean, affordable, and resilient energy future in California.

### **July 7, 2020**

Session 1: This session will include:

- A presentation by CPUC staff on the implementation of SB 1339.
- An update from the CEC Energy Research and Development Division on lessons learned from the more than 30 active microgrids funded by the CEC Electric Program Investment Charge (EPIC) Program.
- A panel of microgrid owners and managers to discuss what is working well on their microgrid and where challenges remain. Also, representatives from the utility industry will discuss how microgrids are currently being used and considered for their future operations.

### **July 9, 2020**

Session 2: This session will include two panels:

- Industry personnel with field experience managing microgrids will discuss how microgrids can address resiliency for critical facilities.
- Industry and finance personnel will discuss the economics of installing and operating microgrids and the outlook for microgrids becoming commercially viable in the future.

Session 3: This session will include two panels:

- Representatives from industry will discuss the impact of wildfires and PSPS events on Californians, particularly those in low-income and disadvantaged communities, and how the use of microgrids can provide energy continuity in the future.
- Representatives from industry and the academic community will discuss new and emerging technologies that will allow microgrids to provide enhanced protection from the risk of a power loss from a wildfire or PSPS event.

A detailed meeting schedule will be posted prior to the workshop at the [2020 IEPR Update Workshops, Notices, and Documents](https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2020-integrated-energy-policy-report-update-0) page, <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2020-integrated-energy-policy-report-update-0>.

## **Background**

A microgrid is defined as a group of interconnected loads and distributed energy resources (DER) within clearly defined electrical boundaries that act as a single controllable entity with respect to the grid. Additionally, a microgrid can connect and disconnect from the grid to enable it to operate in both grid-connected or island-mode. Finally, microgrids can also manage customer critical resources and provide the customers, utilities and grid system operators different levels of critical services and support as needed.

The CEC Energy Research and Development Division has actively supported microgrid demonstration projects over the last eight years. This research has focused on demonstrating the capabilities of microgrids and improving the value microgrids provide the end customer and the utility. In 2018 and 2019, California suffered extensive damage from wildfires and these wildfires caused considerable disruptions to communities as well as the utility infrastructure. With the implementation of PSPS events, the utilities have broadened the impact of these wildfires on communities, businesses, and residents. Microgrids provide technical options to address some or all of these challenges, however, the overall application of microgrids needs to be fine-tuned and the commercial business case needs to be fully defined.

This workshop is intended to continue the process of developing and refining a shared understanding of the opportunities for applying microgrids to address the future resiliency challenges facing California and how microgrids can be used to achieve the state's energy and climate policy goals.

This workshop will inform the development of the *2020 IEPR Update* findings and policy recommendations.

## **Public Comment**

### **Oral Comments:**

Commissioners will accept oral comments at the end of each panel session. Public comments may be limited to three minutes or less per speaker and to one person per organization. To make a comment during the workshop, please use the "raise hand" feature in Zoom. If attending the workshop via telephone, dial \*9 to raise your hand and \*6 to mute/unmute your phone line.

### **Written comments.**

Written comments must be submitted to the Docket Unit by **5:00 p.m. on July 30, 2020**.

Written and oral comments, attachments, and associated contact information (including address, phone number, email address) will become part of the public record of this proceeding with access available via any Internet search engine.

**For the 2020 IEPR Update, the CEC encourages use of its electronic commenting system.**

Visit the [CEC Electronic Add Comment](#) page or visit <https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-IEPR-04>, 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 in Microsoft® Word (.doc, .docx) or Adobe® Acrobat® (.pdf) file. Maximum file size is 10 MB.

Written comments may also be submitted by email if you choose not to use the electronic filing system. Include the docket number 20-IEPR-04 and "Microgrids" 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. 20-IEPR-02  
1516 Ninth Street  
Sacramento, California 95814-5512

**Public Advisor and Other Commission Contacts**

The CEC's Public Advisor's Office provides the public with assistance in participating in CEC proceedings. For information on how to participate in this proceeding, or to request language services or other reasonable accommodations, please contact the public advisor, Noemí O. Gallardo, at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov), or by phone at (916) 654-4489, or toll free at (800) 822-6228. Requests for language services and reasonable accommodations should be made at least five days in advance. The CEC will work diligently to accommodate late requests.

**Zoom:** If you experience difficulties with the Zoom platform, please contact the Public Advisor's office via email or phone. (Contact information above.)

Media inquiries should be directed to the Media and Public Communications Office at [mediaoffice@energy.ca.gov](mailto:mediaoffice@energy.ca.gov) or (916) 654-4989.

Questions on the technical subject matter of this meeting should be directed to Mike Gravely at [Mike.Gravely@energy.ca.gov](mailto:Mike.Gravely@energy.ca.gov) or (916) 704-4339.

For general questions regarding the IEPR proceeding, please contact Raquel Kravitz at [raquel.kravitz@energy.ca.gov](mailto:raquel.kravitz@energy.ca.gov) or (916) 651-8836.

**Remote Attendance**

Participants may join any or all scheduled panel sessions by clicking on the links below. You may also access Zoom at this address, <https://zoom.us/join>, and enter the unique Webinar ID and password for each session (listed below). Zoom technical support is available at 1-888-799-9666

ext. 2, or you may contact the CEC's Public Advisor's Office at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov) or (916) 654-4489, or toll-free at 800-822-6228. To comment or ask a question using Zoom's online platform, use the "raise hand" feature. To comment by telephone, see instructions below.

## **Tuesday, July 7, 2020**

**Click [10:00 AM: Session 1 – Assessing the Value and Role of Microgrids in California Value and Role in California](#)**

(<https://energy.zoom.us/j/94546046814?pwd=OFh3cU9mbG5wcFEvN3dleEtkQU1ZUT09>)

**Webinar ID:** 945 4604 6814    **Webinar Password:** IEPR2020

## **Thursday, July 9, 2020**

**Click [10:00 AM: Session 2 – Microgrids for Resiliency and Microgrid Economics](#)**

(<https://energy.zoom.us/j/98872082776?pwd=dG5RK3J5WHFCRUdxNzhVZzFWZIMvZz09>)

**Webinar ID:** 988 7208 2776    **Webinar Password:** IEPR2020

**Click [2:00 PM: Session 3 – Residential Microgrids and Emerging Microgrid Technologies](#)**

(<https://energy.zoom.us/j/97227129487?pwd=STg5S1VNQ1VieExHNEVibzQvelpsUT09>)

**Webinar ID:** 972 2712 9487    **Webinar Password:** IEPR2020

## **Participate by Telephone:**

To participate by telephone, call Zoom at 1-888-475-4499 (toll free). When prompted, input the unique Webinar ID for the session of your choice (listed above). To comment or ask a question over the telephone, dial \*9 to "raise your hand" and \*6 to mute/unmute.

## **Availability of Documents**

Documents and presentations for this meeting will be available online at [IEPR Workshop, Meeting and Request Comments](#),

<https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2020-integrated-energy-policy-report-update-0> or [Docket Log: 20-IEPR-04](#),

<https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=20-IEPR-04>.

When new information is posted, an email will be sent to those on the energypolicy list serve. Those interested in receiving these notices can subscribe in the lower right corner at the [Integrated Energy Policy Report](#) page, <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report>, or alternatively manage existing [list serves](#) or sign up for others at the [https://www.energy.ca.gov/listservers/index\\_cms.html](https://www.energy.ca.gov/listservers/index_cms.html).

Dated: Wednesday, June 24, 2020, at Sacramento, California

Original Signed by:

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David Hochschild  
Chair

List Servers: energypolicy, EPIC, research and development, diversity, barriers, SB 350