

**DOCKETED**

<b>Docket Number:</b>	18-IEPR-06
<b>Project Title:</b>	Integrating Renewable Energy
<b>TN #:</b>	223746
<b>Document Title:</b>	Notice of IEPR Commissioner Workshop on Renewable Integration and Electric System Flexibility
<b>Description:</b>	Wednesday, June 20, 2018
<b>Filer:</b>	Stephanie Bailey
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**CALIFORNIA ENERGY COMMISSION**1516 Ninth Street  
Sacramento, California 95814Main website: [www.energy.ca.gov](http://www.energy.ca.gov)

CEC-70 (Revised 05/17)



<i>In the matter of:</i>	)	Docket No. 18-IEPR-06
	)	
<i>2018 Integrated Energy Policy Report Update (2018 IEPR Update)</i>	)	NOTICE OF WORKSHOP
	)	
	)	RE: Integrating Renewable Energy

## Notice of IEPR Commissioner Workshop on Renewable Integration and Electric System Flexibility

The California Energy Commission will conduct a workshop to discuss renewable integration and the flexibility of California's electricity system. Robert B. Weisenmiller, the chair of the Energy Commission and lead commissioner for electricity and natural gas will lead the meeting. Commissioner David Hochschild, lead for the *2018 Integrated Energy Policy Report Update (2018 IEPR Update)*, will also participate.

Other Commissioners from the Energy Commission and the California Public Utilities Commission (CPUC) may also participate in the workshop. A quorum of commissioners from the CPUC or the Energy Commission may be attending, but no votes will be taken.

**Wednesday, June 20, 2018**

10:00 a.m.

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street

First Floor, Art Rosenfeld Hearing Room

Sacramento, California

Wheelchair Accessible

Remote Access Available by Computer or Phone via WebEx™

For details, go to [www.energy.ca.gov/webcast](http://www.energy.ca.gov/webcast).

### Background

While California's Renewables Portfolio Standard (RPS) requires that load-serving entities increase their procurement of renewable energy from no less than 25 percent of retail sales by the end of 2016 to 50 percent by 2030, meeting 2030 greenhouse gas (GHG) emissions targets established by the California Air Resources Board will likely entail a higher percentage. Under a "high electrification scenario," achieving 2050 GHG emission reduction goals will require that 75 to 80 percent or more of California's electricity come from renewable sources. Electricity demand may be 60 percent greater

than it is today as the industrial and transportation sectors shift from fossil fuels to electricity as their primary energy source.

Integrating large quantities of renewable generation, much of it solar, will require an increasingly resilient electricity system. In the near-term, this means a flexible fleet of natural gas-fired generators and increasing regionalization of renewable and other zero-carbon energy procurement. Over the longer term, it will require the increased deployment of existing clean technologies, lower costs for maturing technologies, such as plug-in hybrid and battery electric vehicles and multi-hour battery storage, and advancements in such technologies as biofuel and hydrogen production.

Increasing the resiliency of California's electricity system was a topic in the *2017 IEPR*. The workshop will update the discussion by providing information about significant developments during the past year, consistent with the *2018 IEPR Update* scoping order.

## Agenda

In the morning, the workshop will include presentations from:

- Staff of the California Independent System Operator (California ISO), CPUC, and the Energy Commission on the current operational issues of California's electricity grid. This will include discussion of integrated resource plans and systemwide planning to address the issues.
- A representative from E3 on their high electrification scenario analysis.
- Staff from the California ISO on increasing the capability of imported electricity from the Pacific Northwest to help integrate renewables in California.

In the afternoon, the workshop will include panel discussions with representatives from the California ISO, Energy Commission, Lawrence Berkeley National Laboratory, the renewables industry, and utilities to discuss:

- How technical solutions such as advanced inverters can help address the operational challenges of integrating renewable energy and what is needed to advance such solutions.
- How advancements in managing load through demand response and storage can help address operational challenges.

## Public Comment

**Oral comments:** There will be an opportunity for public comments at the end of the workshop. Comments may be limited to three minutes or less per speaker and to one person per organization. Any comments will become part of the public record in this proceeding.

**Written Comments:** Written comments should be submitted to the Dockets Unit by **5:00 p.m. on July 5, 2018**. All written comments will become part of the public record of this proceeding.

**For the 2018 IEPR Update, the Energy Commission is using an electronic commenting system.** Visit the website at [http://www.energy.ca.gov/2018\\_energypolicy/](http://www.energy.ca.gov/2018_energypolicy/) and click on the “**Submit e-Comment**” link in the “Proceeding Information” box. From the drop down menu, select the appropriate docket number. For this workshop, select docket **18-IEPR-06**.

This will take you to the page for adding comments to that docket. Please enter your contact information and comment title. Under “subject(s),” select “**IEPR Public Comments**.” You may include comments in the box titled “Comment Text” or attach a file with your comments. Attached comments must be in a Microsoft® Word (.doc, .docx) or Adobe® Acrobat® (.pdf) formatted file.

The Energy Commission encourages use of its electronic commenting system, but written comments may also be submitted by emailing them to the Dockets Office, or by U.S. Mail to:

California Energy Commission  
Docket Unit, MS-4  
Re: Docket No. 18-IEPR-06  
1516 Ninth Street  
Sacramento, CA 95814-5512

If you choose not to use the electronic filing system, include the appropriate docket number on any emailed or written comment. Comments may be emailed to [docket@energy.ca.gov](mailto:docket@energy.ca.gov) and copy the technical lead, Dave Vidaver, by email at [david.vidaver@energy.ca.gov](mailto:david.vidaver@energy.ca.gov).

Your written and oral comments, attachments, and associated contact information (e.g. your address, phone number, email address) become part of the viewable public record. This information may become available via Google, Yahoo, and other search engines.

## **Public Adviser and Other Commission Contacts**

The Energy Commission’s Public Adviser’s Office provides the public assistance in participating in Energy Commission proceedings. If you want information on how to participate in this forum, contact the Public Adviser, Alana Mathews, at [PublicAdviser@energy.ca.gov](mailto:PublicAdviser@energy.ca.gov) or (916) 654-4489, or toll free at (800) 822-6228.

If you have a disability and require assistance to participate, contact Poneh Jones at [poneh.jones@energy.ca.gov](mailto:poneh.jones@energy.ca.gov) or (916) 654-4425 at least five days in advance.

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

If you have questions on the technical subject matter of this meeting, contact Dave Vidaver at [david.vidaver@energy.ca.gov](mailto:david.vidaver@energy.ca.gov). For general questions about the IEPR proceeding, contact IEPR Program Manager Heather Raitt at [heather.raitt@energy.ca.gov](mailto:heather.raitt@energy.ca.gov) or (916) 654-4735.

The service list for the *2018 IEPR Update* is electronic. Notices and documents for this proceeding are posted to the Energy Commission website at [http://www.energy.ca.gov/2018\\_energypolicy/](http://www.energy.ca.gov/2018_energypolicy/).

When new information is posted, an email will be sent to those on the energypolicy listserv. Those interested in receiving these notices can sign up for the listserv at <http://www.energy.ca.gov/listservers/index.html>.

## Remote Attendance

You may participate in this meeting through WebEx, the Energy Commission's online meeting service. Presentations will appear on your computer screen, and you may listen to audio via your computer or telephone. Please be aware that the meeting may be recorded.

### To join a meeting:

[Click here](#) to join the online event or copy and paste the following link to a browser: <https://energy.webex.com/energy/onstage/g.php?MTID=ed1de4b88325f0ad78b84399f7af03e4f>

Click "Join Now" This menu will offer you a choice of audio connections:

1. To call into the meeting: Select "I will call in" and follow the on-screen directions.
2. International Attendees: Click on the "Global call-in number" link.
3. To have WebEx call you: Enter your phone number and click "Call Me."
4. To listen over the computer: If you have a broadband connection, and a headset or a computer microphone and speakers, you may use VoIP (Internet audio) by going to the Audio menu, clicking on "Use Computer Headset," then "Call Using Computer."

VIA TELEPHONE ONLY (no visual presentation): Call (866) 469-3239 (toll-free in the U.S. and Canada). When prompted, enter the unique meeting number: **923 716 952**  
International callers may select their number from <https://energy.webex.com/energy/globalcallin.php>.

VIA MOBILE ACCESS: Access to WebEx meetings is now available from your mobile device. To download an app, go to [www.webex.com/overview/mobile-meetings.html](http://www.webex.com/overview/mobile-meetings.html).

If you have difficulty joining the meeting, please call the WebEx Technical Support number at (866) 229-3239.

## Availability of Documents

Documents and presentations for this meeting will be available online at:  
[http://www.energy.ca.gov/2018\\_energypolicy/](http://www.energy.ca.gov/2018_energypolicy/).

Date: June 8, 2018

Original signed by

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Chair Robert B. Weisenmiller  
Lead Commissioner for Electricity and  
Natural Gas

Original signed by

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David Hochschild  
Lead Commissioner for the *2018 IEPR  
Update*

Mail Lists: energypolicy, renewable, Integratedrp, implementationsb350, electricity