

## DOCKETED

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<b>Project Title:</b>	EPIC Idea Exchange
<b>TN #:</b>	217065
<b>Document Title:</b>	Notice of Staff Workshop California Microgrid Roadmap Scoping Workshop
<b>Description:</b>	Public Notice
<b>Filer:</b>	Doris Yamamoto
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
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<b>Docketed Date:</b>	4/14/2017



In the matter of:	)	Docket No. 16-EPIC-01
	)	
California Microgrid Roadmap	)	STAFF WORKSHOP
_____	)	RE: Microgrid Roadmap

## Notice of Staff Workshop:

# California Microgrid Roadmap Scoping Workshop

California Energy Commission staff will conduct a public workshop with staff from the California Public Utilities Commission (CPUC) and the California Independent System Operator (California ISO) on the California Microgrid Roadmap to develop a plan to accelerate the adoption of microgrids in the state. Stakeholders may participate in person or online. The workshop will be held:

**Tuesday, April 25, 2017**  
 Beginning at 9:30 a.m.  
 THE U.S. GRANT HOTEL  
 326 Broadway  
 San Diego, California 92101  
 Wheelchair Accessible

Remote Access Available by Computer or Phone via WebEx™  
 (Instructions below)

### Background

A microgrid roadmap for California is being developed in an effort to make California’s electric grid more resilient and adaptable to the state’s anticipated future needs. Microgrids are able to manage customer critical resources, provide services for the utility grid operator, disconnect from the grid when the need arises, and provide the customer and the utility different levels of critical support when the need exists. Microgrids can incorporate clean, low-carbon energy resources with increased energy efficiency, distributed energy resources such as energy storage, distributed renewables, demand response, electric vehicles, and other advanced generation and advanced distributed energy systems. This roadmap is a joint effort between the California Energy Commission, the CPUC, and the California ISO.

This roadmap will address the full range of issues that are delaying or hindering the commercialization of microgrid technologies in California. The results of this roadmapping effort will help to address many of these issues by having a coordinated California state agency roadmap for the commercialization of microgrids in California.

This scoping workshop is focused on reviewing the key issues impacting the commercial success of microgrids. Based on previously completed workshops and information from research completed by the Energy Commission, the majority of the issues can be grouped into three areas: 1) understanding the financial costs and maximizing the benefits of microgrids; 2) addressing the regulatory challenges faced by microgrids; and 3) capturing the innovation and capabilities of new technological opportunities to make microgrids more useful to the operator, end-customer and the utility. The workshop will hold open discussions on these and other related topics, allowing industry, utility, academic, end-customer and other representatives to provide their experiences and make recommendations for solutions to these challenges.

This workshop is the third in a series of five workshops that will be used to develop and publish the joint agency *Roadmap to Commercialize Microgrids in California*. The first and second workshops were held on May 24, 2016, and September 6, 2016. Information on prior workshops can be found on the Energy Commission web page at: <http://www.energy.ca.gov/research/microgrid/documents/index.html>.

The Energy Commission, CPUC, and the California ISO completed roadmaps for Energy Storage and Vehicle Grid Integration. This roadmapping effort will follow the same process and format that was successfully used for those two roadmaps. Those roadmaps, as well as more information on the California Microgrid Roadmap, can be found on the Energy Commission web page at: <http://www.energy.ca.gov/research/microgrid/>.

## Agenda

- |   |   |
|---|---|
| 1. Opening Comments   | Energy Commission, CPUC, California ISO |
| 2. Recap of the first two workshops   | Energy Commission Staff                 |
| 3. Key lessons learned from previous research   | Energy Commission Staff                 |
| 4. New Energy Commission microgrid research effort  | Navigant                                |
| 5. Open Discussion  | All                                     |
| 6. Break into three Separate Working Group Sessions:<br>(Note: Separate WebEx sessions and phone lines for each session.) |   |
| a. Plenary Sessions + Track 1 Financial – Costs and Benefits (facilitated by California ISO representative)               |   |
| b. Track 2 Regulatory – Opportunities and Challenges (facilitated by CPUC representative)                                 |   |
| c. Track 3 Technical – Opportunities and Challenges (facilitated by Energy Commission representative)                     |   |

7. Lunch Break around 12:30pm
8. Return from lunch and continue with Separate Working Group Sessions. All
9. Three Separate Working Groups return to Plenary Session
  - a. Each separate working group will provide a summary of issues discussed and recommend actions that need to be addressed in the roadmap
  - b. Recommended next steps for each separate group
10. Open Discussion All
11. Overview of the format for the roadmap document Energy Commission Staff
12. Discuss next steps and schedule for fourth workshop in late June/early July Energy Commission Staff
13. Adjourn by 4:30 All

## Public Comment

**Oral comments:** The Energy Commission will accept oral comments during the workshop. Comments may be limited to three minutes per speaker depending on the number of commenters desiring to speak. Any comments may become part of the roadmap development and will be included in the workshop summary.

**Written comments:** This workshop is using an electronic commenting system for submitting written comments. Stakeholders wishing to submit comments should complete the form provided on the EPIC docket webpage at:  
<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=16-EPIC-01>.

Written comments should be submitted by 5:00 p.m. on May 9, 2017. All written comments will become part of the public record of this proceeding.

You may also include general 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 e-mailing them to the Dockets Office, or by U.S. Mail to:

California Energy Commission  
 Dockets Office, MS-4  
 Re: Docket No. 16-EPIC-01  
 1516 Ninth Street  
 Sacramento, CA 95814-5512

If you choose not to use the electronic filing system, please include the docket number 16-EPIC-01 on any e-mailed or written comments. Comments may be e-mailed to [docket@energy.ca.gov](mailto:docket@energy.ca.gov).

Please note that your electronic, e-mailed, written and oral comments, attachments, and associated contact information (for example, address, phone, and e-mail) become part of the viewable public record. Additionally, 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, please 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, please 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 subject matter of this meeting, please contact Mike Gravely at: [Mike.Gravely@energy.ca.gov](mailto:Mike.Gravely@energy.ca.gov) or (916) 327-1370.

## 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:

VIA COMPUTER: Go to <https://energy.webex.com> and enter the unique meeting number for the applicable session.

Session Topic	Meeting Number
Plenary Sessions + Track 1 Financial – Costs and Benefits	920 283 025
Track 2 Regulatory – Opportunities and Challenges	922 982 232
Track 3 Technical – Opportunities and Challenges	924 846 438

When prompted, enter your name (if applicable). A password is not necessary to join the meeting.

The “Join Conference” 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." If you are on an extension, use option 1, above.
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 1-866-469-3239 (toll-free in the U.S. and Canada). When prompted, enter the unique meeting number listed above. International callers may select their number from <https://energy.webex.com/energy/globalcallin.php>.

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

If you have difficulty joining the meeting, please call the WebEx Technical Support number at 1-866-229-3239.

## **Availability of Documents**

Documents and presentations for this meeting will be available online at: <http://energy.ca.gov/research/microgrid/documents/index.html>.

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Laurie ten Hope  
Deputy Director

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EPIC listserv  
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