

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street
Sacramento, California 95814

Main website: www.energy.ca.gov



Notice of Staff Workshop: An Exploration of Advancements in Energy Storage in California since the American Recovery and Reinvestment Act

California Energy Commission staff will lead a public workshop to review how the American Recovery and Reinvestment Act supported the advancement of energy storage technologies in California, discuss lessons learned from recent energy storage technology research in California, and present how the state is continuing to support the development of energy storage technologies through multiple state and utility sponsored programs. Energy Commission Chair Robert Weisenmiller and California Public Utilities Commissioner Carla Peterman will attend. Other Energy Commissioners or California Public Utility Commissioner may attend. The workshop will occur on:

Monday, December 1, 2014

Beginning at 9:00 a.m.

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street

Hearing Room A

Sacramento, California 95814

Wheelchair Accessible

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

Background

This workshop will:

- present the public with state agency updates on the progress of California Energy Commission supported activities, including the Energy Storage Roadmap and draft protocols for assessing procurement of energy storage;
- provide updates from several of the state investor owned utilities on their activities in energy storage;
- include a showcase of presentations by energy storage developers, owners, and researchers to describe how their energy storage technology supports the electric grid, how the storage technology is performing, how research and development makes their storage project possible, describe lessons learned, and identify barriers to commercializing the energy storage technology;
- present the next steps under the Electric Program Investment Charge for energy storage research, development, and demonstration; and

- provide an opportunity for stakeholders and the public to have an open discussion about energy storage research, development, and demonstration activities throughout the state.

In September 2010, Governor Brown signed Assembly Bill 2514 (Skinner, Statutes of 2010, Chapter 469) which directs the California Public Utilities Commission (CPUC) to open a proceeding to determine appropriate targets, if any, for each load-serving entity to procure viable and cost-effective energy storage systems and to adopt an energy storage system procurement target, if determined to be appropriate. In December 2010, the CPUC opened a rulemaking to implement AB 2514. In October 2013, the CPUC approved procurement of energy storage by Investor Owned Utilities (IOUs), including energy storage procurement targets, mechanisms to procure energy storage, and evaluation criteria for the energy storage procurement program.

Under the Energy Commission's Public Interest Energy Research (PIER) program, the Energy Commission is supporting a variety of energy storage demonstration projects in California by providing cost share for energy storage projects that were awarded funding by the U.S. Department of Energy under the American Recovery and Reinvestment Act of 2009. Under PIER and the Alternative and Renewable Fuel and Vehicle Technology Program (ARFVTP), the Energy Commission has awarded funding to demonstrate and develop a range of grid energy storage and electric vehicle battery technologies.

In April 2014, the Energy Commission released the competitive Program Opportunity Notice "Developing Advanced Energy Storage Technology Solutions to Lower Costs and Achieve Policy Goals" (PON-13-302) under the Electric Program Investment Charge (EPIC) 2012-2014 Investment Plan. This is the initial round of grant funding specifically for applied research and development energy storage projects under EPIC and the Energy Commission is currently evaluating proposals for energy storage projects solicited by PON-13-302.

In July 2014, the Energy Commission, California Public Utilities Commission, and the California Independent System Operator began working on the first Energy Storage Roadmap for California. The objective of the roadmap is to better understand the challenges and barriers for energy storage and to serve as a guide for future policy and regulatory efforts to facilitate expansion of energy storage in California.

This workshop will provide an opportunity for participants to receive updates on the technical progress on several of the state's active energy storage projects and to provide comments on the proposed future research, development and deployment activities in energy storage at the Energy Commission.

Public Comment

Oral comments: Staff will accept oral comments during the workshop. Comments may be limited to five minutes per speaker. Any comments will become part of the public

record.

Written comments: Written comments will be accepted at the workshop. Additionally, written comments can be submitted to Eli Harland by 5:00 p.m., on December 10, 2014. Please note that written and oral comments, attachments, and associated contact information (e.g., address, phone, email) become part of the viewable public record. This information may become available via Google, Yahoo, and any other search engines.

The Energy Commission welcomes comments by e-mail. Please include your name and any organization name. Comments should be in a downloadable, searchable format such as Microsoft® Word (.doc) or Adobe® Acrobat® (.pdf). Please indicate “Energy storage research” in the subject line. Send comments to:
Eli.Harland@energy.ca.gov.

Public Adviser and Other Energy 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 or (916) 654-4489 or toll free at (800) 822-6228.

If you have a disability and require assistance to participate, please contact Lou Quiroz at Lou.Quiroz@energy.ca.gov or (916) 654-5146 at least five days in advance.

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

If you have questions on the subject matter of this meeting, please contact Eli Harland at Eli.Harland@energy.ca.gov or (916) 327-1463.

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 the meeting:

VIA COMPUTER: Go to <https://energy.webex.com> and enter the unique meeting number: **920 374 175**. When prompted, enter your name and the following meeting password: **meeting@9**.

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."
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: **920 374 175**. 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.

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: www.energy.ca.gov/research/notices/

Mail Lists:
Electricity, EPIC, Research,

**California Energy Commission Staff Workshop:
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December 1, 2014**

DRAFT AGENDA

Time	Topic
9:00 a.m.	Introductions and Opening Comments
9:30 a.m.	Energy Commission Funded Activities that are Supporting Energy Storage
10:15 a.m.	Research Showcase: Energy Storage
12:00 p.m.	Lunch
1:00 p.m.	Research Showcase: Energy Storage, continued
3:15 p.m.	Next Steps for Energy Commission Energy Storage Program
3:30 p.m.	Open Discussion, Public Comment, and Closing Comments

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Participants can also join the Workshop by phone: 1-866-469-3239, passcode **920 374 175**.

