

**CALIFORNIA ENERGY COMMISSION**1516 Ninth Street  
Sacramento, California 95814Main website: [www.energy.ca.gov](http://www.energy.ca.gov)**DOCKET****11-IEP-1N**

In the matter of,

Preparation of the  
*2011 Integrated Energy Policy Report*  
(*2011 IEPR*)DATE APR 08 2011RECD. APR 11 2011

) Docket No. 11-IEP-1N

) COMMITTEE WORKSHOP

) RE: Energy Storage for Renewable  
) Integration

## Committee Workshop on Energy Storage for Renewable Integration

The California Energy Commission's Integrated Energy Policy Report (IEPR) Committee will conduct a workshop to gather public comments on current policy efforts and further policy planning regarding energy storage for renewable integration in California. Chair Robert B. Weisenmiller is the Presiding Member and Commissioner Karen Douglas is the Associate Member of the IEPR Committee. Other Commissioners may attend and participate in this workshop.

**THURSDAY, APRIL 28, 2011**

Beginning at 9:30 a.m.

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street

First Floor, Hearing Room A

Sacramento, California

(Wheelchair Accessible)

### Remote Attendance and Availability of Documents

**Internet Webcast** - Presentations and audio from the meeting will be broadcast via our WebEx web meeting service. For details on how to participate via WebEx, please see the "Remote Attendance" section toward the end of this notice.

Documents and presentations for this meeting will be available online at:  
[[www.energy.ca.gov/2011\\_energypolicy/index.html](http://www.energy.ca.gov/2011_energypolicy/index.html)].

## **Purpose**

The purpose of this IEPR Committee workshop is to gather public comments and input regarding how energy storage can support renewable integration in California. The workshop will provide an interactive overview of the challenges of developing and deploying energy storage to support renewable integration while managing the California grid with 33 percent renewable by 2020.

This workshop will:

- 1) discuss California's energy storage, and renewable generation and integration policy goals;
- 2) explain the electric power system and the issues with integrating renewable generation;
- 3) discuss how energy storage can support renewable integration;
- 4) present latest results from the Public Interest Energy Research programs, activities of research projects in energy storage, and renewables integration;
- 5) explain how current and future energy storage can provide benefits to California;
- 6) discuss how and what needs to be done to support the implementation of the Assembly Bill 2514 energy storage development, demonstration, and deployment plan and associated activities; and
- 7) give attendees the opportunity to ask questions and provide comments in a collaborative setting.

Overall, this workshop will provide the Energy Commission and the public with an opportunity to explore and consider a range of perspectives on energy storage and its role in supporting renewable integration in California.

## **Background**

Since the inception of the Energy Commission's Public Interest Energy Research (PIER) program in 1997, continuously changing electricity markets, regulations, technologies, and customer behavior have raised new challenges for power generation, transmission and distribution planners, owners, operators, policy makers, and regulators. To meet these challenges, the Energy Commission performs research and develops policy recommendations to provide new technologies in electric storage and transmission and distribution technologies to support integration of renewable generation, and new kinds of customer loads, such as electric vehicles. Expanding and modernizing our electric grid into a Smart Grid for the 21st century will depend on new technology innovations including energy storage.

On September 29, 2010, Governor Arnold Schwarzenegger signed Assembly Bill 2514 (Skinner, Chapter 469, Statutes of 2010). Pursuant to AB 2514, the California Public Utilities Commission (CPUC) has initiated proceedings to determine appropriate targets, if any, for each load-serving private entity to procure viable and cost-effective energy storage systems. The bill requires the Energy Commission to review the public utilities' plans to determine appropriate targets and procure viable and cost-effective energy storage systems to meet the targets. Also, the bill recognizes that despite many benefits of energy storage, there are significant barriers to obtaining them.

Energy storage is expected to play a larger role in generation resource management, integration of variable resources, and peak management applications.

## **Written Comments**

Written comments on the meeting topics must be submitted by **5 p.m. on May 16, 2011**. Please include the docket number **11-IEP-1N** and indicate "Energy Storage for Renewable Integration" in the subject line or first paragraph of your comments.

**All filings in the IEPR proceeding are now done electronically.** Please send your comments in either Microsoft Word format or as a Portable Document File (PDF) by electronic mail to [[docket@energy.state.ca.us](mailto:docket@energy.state.ca.us)] or send them on a Compact Disk to:

California Energy Commission  
Dockets Office, MS-4  
Re: Docket No. 11-IEP-1N  
1516 Ninth Street  
Sacramento, CA 95814-5512

Please include your name or organization's in the name of the file. Signatures may be indicated on electronic copies by embedding a scanned signature graphic, "Original signed by" or similar words, or a scanned copy of the signature page may be appended to the electronic file.

Participants may also provide an original and 10 copies at the beginning of the workshop. All written materials relating to this workshop will be filed with the Dockets Office and become part of the public record in this proceeding.

## **Public Participation**

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission activities. If you want information on how to participate in this forum, please contact the Public Adviser's Office at

(916) 654-4489 or toll free at (800) 822-6228, by FAX at (916) 654-4493, or by e-mail at [PublicAdviser@energy.state.ca.us]. If you have a disability and require assistance to participate, please contact Lou Quiroz at (916) 654-5146 at least five days in advance.

Please direct all news media inquiries to the Media and Public Communications Office at (916) 654-4989, or by e-mail at [mediaoffice@energy.state.ca.us].

If you have questions on the technical subject matter of this meeting, please call Avtar Bining, Energy Storage program manager, at (916) 327-1411 or by e-mail at [abining@energy.state.ca.us]. For general questions regarding the IEPR proceeding, please contact Lynette Green, IEPR project manager, at (916) 653-2728 or by e-mail at [lesterno@energy.state.ca.us].

The service list for the 2011 IEPR is handled electronically. Notices and documents for this proceeding are posted to the Energy Commission website at [www.energy.ca.gov/2011\_energypolicy/index.html]. When new information is posted, an e-mail will be sent to those on the energy policy e-mail list server. We encourage those who are interested in receiving these notices to sign up for the list server through the website [www.energy.ca.gov/listservers/index.html].

## Remote Attendance

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

### Computer Log-on with Telephone Audio:

1. Please go to [https://energy.webex.com] and enter the unique meeting number: **492 594 223**
2. When prompted, enter your name other information as directed and the meeting password: **meeting@930** (password is case sensitive)

### Teleconference:

After logging in on the computer, an AUDIO CONFERENCE BOX will offer you the choice of phone connections:

1. TO HAVE WEBEX CALL YOU BACK: Type your area code and phone number and click "Call Me".
2. TO CALL INTO THE TELECONFERENCE: Use the drop-down box to select "I will call in" and follow the on-screen directions.
3. INTERNATIONAL CALLERS: Click on the "Global call-in number" link in part (2) above

4. TO LISTEN OVER THE COMPUTER: If you have the needed equipment and your computer is configured, click on "Use Computer Headset" and then "Call Using Computer" to use VoIP (Internet phone)

TELEPHONE ONLY (NO COMPUTER ACCESS): Call 1-866-469-3239 (toll-free in the U.S. and Canada) and when prompted enter the unique meeting number: **492 594 223**. International callers can select their number from [<https://energy.webex.com/energy/globalcallin.php>].

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

Date: April 8, 2011

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ROBERT B. WEISENMILLER  
Chair and Presiding Member  
2011 Integrated Energy Policy Report Committee

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KAREN DOUGLAS  
Commissioner and Associate Member  
2011 Integrated Energy Policy Report Committee

Mail Lists: reti, electricity, energypolicy, distgen, transmission, research, loadmanagement