

CALIFORNIA ENERGY COMMISSION1516 Ninth Street
Sacramento, California 95814Main website: www.energy.ca.gov**DOCKET****09-IEP-1G**

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RECD. MAR 18 2009



In the matter of:

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Docket No. 09-IEP-1G

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Preparation of the

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2009 Integrated Energy Policy Report

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NOTICE OF STAFF WORKSHOP

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Notice of Staff Workshop on Energy Storage Technologies and Policies Needed to Support California's Renewable Portfolio Standard (RPS) Goals of 2020

In support of the *2009 Integrated Energy Policy Report (2009 IEPR)*, the California Energy Commission (Energy Commission) will conduct a staff workshop regarding the issues facing the fielding and deployment of large, utility scale energy storage technologies to support California's Renewable Portfolio Standard (RPS) goal of 33 percent renewables by 2020. The workshop is intended to enable the staff to receive input from stakeholders on why more utility scale energy storage technology systems are not being fielded throughout the state and nation, and what actions or policies California can consider to encourage or accelerate the fielding of more large, utility scale electricity energy storage systems in California in time to support the RPS goal by 2020. Commissioner Jeffrey D. Byron is the Presiding Member and Vice Chair James D. Boyd is the Associate Member of the 2009 IEPR Committee. While this is a staff workshop, Commissioners from the Energy Commission may attend and participate in this workshop. In addition, Commissioners and staff from the California Public Utilities Commission may also attend and participate.

The workshop will be held:

THURSDAY, APRIL 2, 2009

10 a.m.

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street

First Floor, Hearing Room A

Sacramento, California

(Wheelchair Accessible)

Remote Attendance

Web Conferencing - Presentations and audio from the meeting will be broadcast via our WebEx web conferencing system. For details on how to participate via WebEx, please see the “Participation through WebEx” section at the end of this notice.

Webcast - Presentations and audio from this meeting will be broadcast over the Internet through Windows Media. For details, please go to [\[www.energy.ca.gov/webcast/\]](http://www.energy.ca.gov/webcast/).

Purpose

The workshop furthers the Energy Commission's implementation of recommendations in the *2008 Integrated Energy Policy Report Update (IEPR)* to support both near-term and long-term strategies to reach the state's renewable energy goals. Specifically, the *IEPR* recommended “[t]he state should focus on identifying energy storage technologies with the most promise of providing grid stability and improved operations, reducing the costs of those technologies and accelerating their commercialization.” The following policy recommendation from the *2008 IEPR Update* serves as a guideline in developing a portfolio of storage technologies (*California Energy Commission, 2008 Integrated Energy Policy Report Update, CEC-100-2008-008-CMF, p. 28-29*):

- Identifying energy storage technologies such as grid-based electrical energy storage... with the most promise to resolve grid stability and operations issues related to higher penetrations of renewables, reduce the costs of those technologies, analyze their integration with solar and wind power plants, and accelerate their commercialization.

The information from this workshop will support development of the *2009 IEPR*, including analyzing changes to California's electricity system.

Background

Public Resources Code Section 25300, et seq., directs the Energy Commission to develop the *IEPR* every two years, with updates in the intermediate years, and directs state government entities to carry out their energy-related duties and responsibilities using the information and analyses contained in the adopted *IEPR* reports.

California currently has a mandate to achieve 20 percent of retail electricity sales from renewable resources by 2010, and the Governor and the state's energy agencies have identified a further goal of 33 percent renewable by 2020. This higher goal is a key strategy for meeting the state's greenhouse gas emission reduction targets.

The IEPR Committee issued its Committee Scoping Order for the *2009 IEPR* on January 9, 2009. One of the topics identified in that order is the need to evaluate the status, potential, and research needs for new technologies, such as energy storage, to reduce grid impacts from increased renewable penetration.

Questions for Workshop

- What barriers and/or obstacles have prevented large, utility scale electricity energy storage systems from being installed in California and the nation?
- How does energy storage affect the ramping and regulation of renewable energy sources?
- What value does a large scale electric energy storage system provide the integration of large amounts of renewable resources as compared to other backup or intermittency support alternatives?
- Where should large, utility scale electric energy storage systems be deployed to have the greatest beneficial impact on meeting the RPS goals of 2020?
- What is the cost of ownership of electrical storage systems, what benefits will be accrued, and how will they be distributed?
- What are the challenges and solutions to having the costs associated with energy storage systems be recouped from those who benefit from the technology when the benefits are expected to be provided to multiple beneficiaries?
- What actions are being taken by the electric energy storage industry to bring down the overall costs of large, utility scale electric energy storage systems?
- What incentive programs or other economic stimulus alternatives can be proposed that will encourage the deployment and fielding of more large, utility scale electric energy storage systems in California?
- What research is needed on energy storage in order for the California Grid to be capable of supporting the RPS goal of 33 percent renewables by 2020?

Written Comments

Staff requests the participation of utilities, electric energy storage industry representatives, energy storage research community representatives and other interested parties in this workshop and proceeding and encourages interested parties to present their views either orally at the workshop or through written comments. The Committee will take comments from the public immediately following the workshop presentations.

Written comments on the workshop topics must be submitted by 5:00 p.m. on April 9, 2009. Please include the docket number 09-IEP-1G and indicate "2009 IEPR – Energy Storage Technologies" in the subject line or first paragraph of your comments. Please hand deliver or mail an original to:

California Energy Commission
Dockets Office, MS-4
Re: Docket No. 09-IEP-1G
1516 Ninth Street
Sacramento, CA 95814-5512

The Energy Commission encourages comments by e-mail. Please include your name or organization's in the name of the file. Those submitting comments by electronic mail should provide them in either Microsoft Word format or as a Portable Document (PDF) to [docket@energy.state.ca.us]. **One paper copy** must also be sent to the Energy Commission's Docket Unit.

Participants may also provide an original copy at the beginning of the workshop. All written materials relating to this workshop will be filed with the Dockets Unit 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 Elena Miller, Public Adviser, 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 forum, please call Bryan Neff at (916) 654-4414 or by e-mail at [bneff@energy.state.ca.us]. For general questions regarding the IEPR proceeding, please contact Lynette Esternon-Green, IEPR project manager, by phone at (916) 653-2728 or by e-mail at [lesterno@energy.state.ca.us].

The service list for the 2009 IEPR is handled electronically. Notices and documents for this proceeding are posted to the Energy Commission website at http://www.energy.ca.gov/2009_energyypolicy/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 <http://www.energy.ca.gov/listservers/index.html>.

Participation through WebEx, the Energy Commission's on-line meeting service

Computer Log on with a Direct Phone Number:

- Please go to <https://energy.webex.com> and enter the unique meeting number 922 676 266
- When prompted, enter your information and the following meeting password iepr@2009
- After you log in, a prompt will appear on-screen for you to provide your phone number. In the Number box, type your area code and phone number and click OK to receive a call back on your phone for the audio of the meeting. International callers can use the "Country/Region" button to help make their connection.

Computer Log on for Callers with an Extension Phone Number, etc.:

- Please go to <https://energy.webex.com> and enter the unique meeting number 922 676 266
- When prompted, enter your information and the following meeting password iepr@2009
- After you log in, a prompt will ask for your phone number. CLICK CANCEL.
- Instead call 1-866-469-3239 (toll-free in the U.S. and Canada). When prompted, enter the meeting number above and your unique Attendee ID number which is listed in the top left area of your screen after you log in. International callers can dial in using the "Show all global call-in numbers" link (also in the top left area).

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 above. 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. Please be aware that the meeting's WebEx audio and on-screen activity may be recorded.

Electronic Mail Lists: energy policy, renewables

Note: California Energy Commission's formal name is State Energy Resources Conservation and Development Commission.