

CALIFORNIA ENERGY COMMISSION1516 Ninth Street
Sacramento, California 95814Main website: www.energy.ca.gov

In the matter of,)

Docket No. 09-IEP-1G

Preparation of the *2009 Integrated Energy Policy Report*)

NOTICE OF WORKSHOP)

**DOCKET
09-IEP-1G**DATE _____
RECD. APR 29 2009

Notice of Workshop on Smart Grid Technologies and Policies Needed to Support California's Energy Policy Goals

In support of the *2009 Integrated Energy Policy Report (2009 IEPR)*, the California Energy Commission (Energy Commission) will conduct a 2-day workshop regarding the issues facing the smart grid technologies to support California's Renewable Portfolio Standard (RPS) goal of 33 percent renewables by 2020. The first day is a Committee workshop and the second day is a staff workshop. The workshop is intended to enable the staff to receive input from stakeholders on the status of smart grid technologies, identify technical, regulatory and market barriers, and what actions or policies California should consider encouraging, or accelerating smart grid technologies 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:

WEDNESDAY, MAY 13, 2009

10 a.m.

and

THURSDAY, MAY 14, 2009

9 a.m.

EAST END COMPLEX

1500 Capitol Avenue

First Floor, Auditorium

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.

Purpose

The workshop furthers the Energy Commission's implementation of recommendations in the *2008 Integrated Energy Policy Report Update (2008 IEPR Update)* to support both near-term and long-term strategies to reach the state's renewable energy goals. Specifically, the *2008 IEPR Update* states:

Energy storage and transmission measurement and information systems can play an important role in helping to integrate renewables. Improvements in wind and solar forecasting and further development of the "smart grid" concept can provide additional benefits. The state needs to assess these new technologies and strategies to determine which are appropriate for near-term and long-term implementation, and what efforts should be undertaken to accelerate commercialization of the most promising potential solutions.

A recurring theme in IEPR workshops was the use of the "smart grid" concept to help reduce the impacts of integrating large amounts of renewables into the system. Smart grid uses advanced sensing, communication, and control technologies to improve overall efficiency, reliability, and cost-effectiveness of electrical transmission and distribution system operations, planning, and maintenance. Faster, more reliable, and more capable two-way communications systems will provide new energy management options to all levels of the utility grid system, including generation, transmission, distribution, and customer end use. A smart grid will provide the ability to aggregate customer loads for demand response, automatically locate utility system outages, quickly resolve utility system congestion issues, automatically control building and industrial loads in response to critical network needs, and the ability for all customers to have greater options to manage their energy needs.

As California moves to implement a smart grid system, more options will be available to manage and control renewable generation resources connected at the distribution level, as well as to enable the use of demand response measures to help address operational impacts of increased integration of renewables by balancing load and generation.

Additionally, the American Recovery and Reinvestment Act (ARRA) has identified \$4.5 billion for smart grid demonstrations and other related activities. The Energy Commission and the Public Utilities Commission are actively working with interested stakeholders to ensure California receives a fair share of these funds. **The ARRA opportunities and planned activities related to stimulus funds will be discussed on the first day of the workshop.**

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 resources 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 “identify research and development efforts on smart grid, energy smart communities, and distribution level renewables to facilitate and support increased integration of renewables resources.”

The first day of this two-day workshop begins with Energy Commission and other government decision makers discussing California policies that impact smart grid. The afternoon will feature two panel discussions on smart grid policies, vision, and a prioritization of the key areas California should address.

The second day will focus on smart grid technologies and utility activities. This will include smart grid research activities by the Energy Commission's Public Interest Energy Research Program (PIER), smart grid deployments by California utilities, and industry trends in smart grid technologies. A more detailed agenda will be provided on the Energy Commission's website [www.energy.ca.gov/2009_energypolicy/index.html] prior to the workshop.

Written Comments

Written comments on the workshop topics must be submitted by 5:00 p.m. on May 21, 2009. Please include the docket number 09-IEP-1G and indicate "2009 IEPR – Smart Grid" 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 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 and ten copies 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 contact Dave Michel, PIER-Smart Grid Manager at (916) 653-3024 or by e-mail at [dmichel@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 [www.energy.ca.gov/2009_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].

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 **928-398-439**
- When prompted, enter your information and the following meeting password **iepr@2009sg**
- After you login, 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 **928-398-439**
- When prompted, enter your information and the following meeting password **iepr@2009sg**
- 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 login. International callers can dial in using the "Show all global call-in numbers" link (also in the top left area of your screen).

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.

JEFFREY D. BYRON
Commissioner and Presiding Member
Integrated Energy Policy Report Committee

JAMES D. BOYD
Vice Chair and Associate Member
Integrated Energy Policy Report Committee

Mail Lists: energy policy, renewable, research

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