

**CALIFORNIA ENERGY COMMISSION**

1516 Ninth Street  
Sacramento, California 95814

Main website: [www.energy.ca.gov](http://www.energy.ca.gov)



## **Staff Workshop Solar and Wind Forecasting: Achieving a 33 Percent Solution**

California Energy Commission Staff will conduct a workshop to highlight the current state of solar and wind forecasting tools and to learn about the California Independent System Operator, utility, and customer needs for predicting the availability of solar and wind resources.

**December 16, 2011**

Beginning at 9 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:

<http://www.energy.ca.gov/research/notices/index.html>

### **Purpose**

This workshop is to discuss the current state of solar and wind forecasting tools, their various components, reliability, shortcomings, and future research needed to better anticipate and manage renewable resources. Additionally, the California Independent System Operation (ISO), utilities, and customers will discuss the specifications needed to accurately predict and utilize solar and wind energy resources. This discussion will help target future solicitations for research toward applications that will help California better reach its near term renewable goals.

## **Background**

California has aggressive goals of having 33 percent of all electricity supplied by renewable energy in 2020. Integration of large amounts of solar and wind renewable energy poses challenges for customers as well as the electric grid due to the variable nature of the resources. The Energy Commission is sponsoring forecasting research that will allow grid operators to better accommodate the variable electricity generation in their scheduling, dispatching, and regulation of power. Research for better forecasting tools will increase the capacity of distribution feeders to allow more customers to generate their own renewable power. California has many unique microclimates that require specific tools to accurately forecast wind and solar power output. In coastal areas, home to the majority of rooftop solar power plants, marine layer clouds and the timing of burn-off are notoriously difficult to predict. Areas in the central valley have Tule fog and winter storm systems that need to be accurately forecast. Even large solar farms in the arid southeast can be affected by a cloud or passing storm.

## **Written Comments**

Written comments on the workshop topics must be submitted by 5:00 p.m. on [January 2, 2011](#). Please hand deliver or mail an original copy to:

California Energy Commission  
Attn: Jamie Patterson  
Research and Development Division  
1516 Ninth Street, MS 43  
Sacramento, CA 95814-5512

We will also accept comments by e-mail. Please include your name or organization's in on the letter. Those submitting comments by electronic mail should provide them in either Microsoft Word format or as a Portable Document (PDF) to Jamie Patterson at [[JPatters@energy.state.ca.us](mailto:JPatters@energy.state.ca.us)].

## **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](mailto: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](mailto:mediaoffice@energy.state.ca.us)].

If you have questions on the technical subject matter of this meeting, please call Jamie Patterson, Senior Mechanical Engineer, at (916) 327-2342.

## **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:**

1. Please go to <https://energy.webex.com> and enter the unique meeting number: **926 740 653**
2. When prompted, enter your information and the following meeting password: **meeting@9am**

NOTE: Access to WebEx meetings is now available from your mobile device. To learn more and access your app, please visit [www.webex.com/overview/mobile-meetings.html](http://www.webex.com/overview/mobile-meetings.html)

### **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: **926 740 653**. 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.

Mail Lists: renewables, research