



Notice and Agenda of Staff Workshop: Second Annual California Multi-Agency Update on Vehicle-Grid Integration Research

California Energy Commission staff will conduct a public workshop with the California Independent System Operator (California ISO), California Public Utilities Commission (CPUC), and other organizations to review the progress of research called for in the California Vehicle-Grid Integration Roadmap as part of the Governor's Zero-Emission Vehicle Action Plan. Commissioners may attend the workshop. The workshop will occur on:

Monday, December 14, 2015

Beginning at 9:00 a.m.

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street

First Floor, Rosenfeld Hearing Room

Sacramento, California

Wheelchair Accessible

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

Background

This workshop will:

- present stakeholders with state agency updates on the progress of technical vehicle-grid integration research;
- allow stakeholders to hear from researchers on the current progress of diverse vehicle-grid integration research and demonstration projects;
- plan to convene a panel of fleet operators to allow stakeholders to hear their views on electric vehicle adoption and opportunities for the vehicles to provide grid services as a means of reducing costs or generating revenue; and
- solicit stakeholder feedback on the direction of future research.

In March 2012, Governor Brown issued an executive order directing the state government to help accelerate the market for zero-emission vehicles (ZEVs) in California. [Executive Order B-16-2012](#) establishes milestones on a path toward 1.5 million ZEVs in California by the year 2025. The [2013 ZEV Action Plan](#), created to identify strategies and actions state agencies will take to meet milestones of the executive order, is the product of an interagency working group led by the Governor's Office that includes the California ISO, the CPUC, the Energy Commission, the California Air Resources Board (CARB), and other state agencies and associated entities.

As part of the 2013 ZEV Action Plan, the California ISO, with input from multiple state agencies and stakeholders, created the [California Vehicle-Grid Integration Roadmap](#) to help commercialize vehicle-grid integration services to be provided by plug-in electric vehicle (PEV) batteries.

Vehicle-grid integration (VGI) services are an array of smart, grid-integrated PEV charging functions that can include one-way or two-way power flow capabilities. The purpose of the California VGI Roadmap is to aid vendors, policymakers, and researchers as related technologies are developed and refined.

The “Next Steps” section of the Vehicle-Grid Integration Roadmap calls for the Energy Commission to host annual workshops to review progress on vehicle-grid integration research and demonstration projects. This event will be the second of these annual workshops.

Note that on the following day, the morning of Tuesday, December 15, staff plans to hold a half-day public workshop to gather stakeholder input on draft material for a solicitation under the Second EPIC Triennial Investment Plan. The solicitation will fund projects in the VGI topic area. This solicitation scoping workshop is planned for the day after the *Second Annual California Multi-Agency Update on Vehicle-Grid Integration Research* so that stakeholders interested in attending both may minimize travel costs by making a single trip to Sacramento. Remote attendance is also an option for both workshops.

Public Comment

Oral comments: Staff will accept oral comments during the workshop. Comments may be limited to 3 minutes per speaker. Any comments may become part of the public record.

Written comments: Written comments are highly encouraged. Please include your name and organization name in the email(s) containing your written comment(s). Comments should be in a downloadable, searchable format such as the body of an email or a Microsoft® Word (.doc) or Adobe® Acrobat® (.pdf) document. Please indicate “Vehicle-grid integration research” in the subject line. Send comments to: kiel.pratt@energy.ca.gov.

Comments submitted by 5:00 p.m. on December 10, 2015 will be able to be reviewed in advance of the workshop and may be addressed during the event. Additionally, written comments will be accepted after this time and during the workshop; however, staff may not have time to review these comments before the conclusion of the workshop. Finally, written comments after the workshop are encouraged and we ask that those comments be sent no later than 5:00 p.m. on December 28, 2015.

Stakeholders' written comments may be posted to the Energy Commission's website. Please note that your written and oral comments, attachments, and associated contact information (e.g. your address, phone, email, etc.) may become part of the viewable public record. This information may become available via Google, Yahoo, and any other search engines.

Public Adviser and Other 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 lquiroz@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 Kiel Pratt at kiel.pratt@energy.ca.gov or (916) 327-1412.

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 a meeting:

VIA COMPUTER: Go to <https://energy.webex.com> and enter the unique meeting number: **921 099 781**. When prompted, enter your name and the following meeting password: **Workshop@1214**

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: **921 099 781**.

International callers may select their number from
<https://energy.webex.com/energy/globalcallin.php>

VIA MOBILE ACCESS: Access to WebEx meetings is available from your mobile device. To download an app, go to www.webex.com/products/web-conferencing/mobile.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:
<http://www.energy.ca.gov/research/notices/index.html>

Mail Lists:

Electricity, EPIC, Research, Transportation, Altfuels

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Second Annual California Energy Commission Review of
Vehicle-Grid Integration Research
December 14, 2015
DRAFT AGENDA**

Time	Topic
9:00 a.m.	Introductions and agency updates
11:00 a.m.	Technical research updates
12:00 p.m.	Lunch
1:00 p.m.	Technical research updates, continued
3:00 p.m.	Planned fleet operator panel discussion
4:00 p.m.	Public comment session
4:45 p.m.	Next steps and closing

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