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

California Energy Commission staff will conduct a public workshop with the California Public Utilities Commission (CPUC), California Independent System Operator (California ISO), 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. A quorum of Commissioners from the CPUC and the Energy Commission may be in attendance, but no votes will be taken.

The objectives of the workshop are to:

- Present state agency updates on the progress of technical vehicle-grid integration research and demonstration programs;
- Provide an opportunity to hear from researchers on the current progress of diverse vehicle-grid integration research and demonstration projects; and
- Solicit stakeholder feedback on the direction of utility pilot programs and future research opportunities with a focus on medium- and heavy-duty vehicles and services.

December 5, 2017
Beginning at 9:30 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
In March 2012, Governor Edmund G. Brown Jr. 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, 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 (VGI 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 VGI Roadmap calls for the Energy Commission to host annual workshops to review progress on VGI research and demonstration projects. This event will be the fourth of these annual workshops.

Public Comment

Oral comments. Staff will accept oral comments during the workshop. Comments may be limited to three (3) minutes per speaker. Any comments may become part of the public record in this proceeding.

Written comments. Written comments are highly encouraged. Please send comments to matthew.fung@energy.ca.gov, include your name and organization name in the email(s) containing your written comment(s), and indicate “Vehicle-grid integration research” in the subject line. 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.

Comments submitted by 5:00 p.m. on December 1, 2017 will be able to be reviewed in advance of the workshop and may be addressed during the event. Written comments following the workshop are encouraged as well, and we ask that those comments be sent no later than 5:00 p.m. on December 12, 2017.

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.) 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 Poneh Jones at poneh.jones@energy.ca.gov or (916) 654-4425 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 Matt Fung, matthew.fung@energy.ca.gov or (916) 327-1422.

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.

VIA COMPUTER: Go to https://energy.webex.com/ec. If this Event is shown on the list of events, click on its “Join” link. If it is not listed, click the “Unlisted Events” link on the left of your screen and enter the meeting number 927 274 676. When prompted, enter your name and email address. No meeting password is needed.

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 above. International callers may select their number from:

https://energy.webex.com/energy/globalcallin.php

VIA MOBILE DEVICES: Access to WebEx meetings is now available from your mobile device. To download an app, go to:

www.webex.com/products/web-conferencing/mobile.html

Please be aware that WebEx audio and on-screen activity may be recorded. WebEx Technical Support is available at 1 (866) 229-3239.
**Muting**

We greatly appreciate your cooperation in reducing unwanted noise on the audio connection by muting your line when you are not speaking. Mute your line rather than placing your phone on hold. Using WebEx, you may mute yourself by right clicking on your name in the panelists or attendees list and selecting ‘Mute’. If you are only using a telephone connection, press “*6” once to mute and again to unmute.

**Availability of Documents**

Documents and presentations for this meeting will be available online at: 

November 21, 2017

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Laurie ten Hope  
Deputy Director

Mail Lists:  
Altfuels, Electricity, EPIC, ImplementationSB350, Newsletter, Research, Transportation
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Fourth Annual California Energy Commission Review of
Vehicle-Grid Integration Research
December 5, 2017

**AGENDA**

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<th>Time</th>
<th>Topic</th>
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<tr>
<td>9:30 a.m.</td>
<td>Welcome</td>
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<tr>
<td>9:40 a.m.</td>
<td>Vehicle-Grid Integration (VGI) Technical Research Innovations</td>
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<tr>
<td>11:45 a.m.</td>
<td>Meeting Utility Infrastructure Needs Through Pilot Charging Integration</td>
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<tr>
<td>12:30 p.m.</td>
<td>Lunch</td>
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<tr>
<td>1:30 p.m.</td>
<td>Discussion Panel: Identifying Opportunities and Barriers to Advance Vehicle-Grid Integration into the Medium-/Heavy-Duty Sector</td>
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<td>2:15 p.m.</td>
<td>Future VGI Plans From the Agencies and the California Independent System Operator</td>
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<td>3:30 p.m.</td>
<td>Public Comment Session, Next Steps, and Adjourn</td>
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California Energy Commission Notice of Staff Workshop

Fourth Annual California Multi-Agency Update on Vehicle-Grid Integration Research

Tuesday, December 5, 2017
Starting at 9:30 am

California Energy Commission
1516 9th Street
Rosenfeld Hearing Room
Sacramento, California 95814-5512
(Wheelchair Accessible)