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<th>Docket Number:</th>
<th>20-IEPR-02</th>
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<tr>
<td>Project Title:</td>
<td>Transportation</td>
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<td>TN #:</td>
<td>233571</td>
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<tr>
<td>Document Title:</td>
<td>Notice of IEPR Commissioner Workshop on Hydrogen and Fuel Cell Electric Vehicle Market Status</td>
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<td>Description:</td>
<td><em>SUPERSEDES TN 233550</em> Session 1 will open with an overview presentation on hydrogen market trends and feature a panel discussion on hydrogen supply and refueling infrastructure. Session 2 will feature two panels on FCEVs. The first panel will focus on heavy-duty FCEVs, including buses and freight vehicles. The second panel discussion will focus on light-duty FCEVs. Presenters and panelists will include 2 partnering state agencies, market research firms, FCEV manufacturers, hydrogen fueling station developers, transportation districts using FCEVs, and other stakeholders.</td>
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<td>Filer:</td>
<td>Harrison G Reynolds</td>
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<td>Organization:</td>
<td>California Energy Commission</td>
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<td>Submitter Role:</td>
<td>Commission Staff</td>
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<td>Submission Date:</td>
<td>6/19/2020 5:35:01 PM</td>
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<td>Docketed Date:</td>
<td>6/22/2020</td>
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Notice of Joint Agency Workshop on Vehicle-Grid Integration and Charging Infrastructure Funding

The California Energy Commission (CEC) and the California Public Utilities Commission (CPUC) will conduct a joint workshop to discuss vehicle-grid integration (VGI) and charging infrastructure funding. The workshop is part of the CEC’s 2020 Integrated Energy Policy Report Update (2020 IEPR Update) proceeding.

CEC Commissioner Patty Monahan will jointly conduct this workshop with CPUC Commissioner Clifford Rechtschaffen. A quorum of commissioners may participate, but no votes will be taken.

The workshop will be held remotely, consistent with Executive Orders N-25-20 and N-29-20 and the recommendations from the California Department of Public Health to encourage physical distancing to slow the spread of COVID-19. The public is able to participate and observe the workshop consistent with the direction in these Executive Orders. Instructions for remote participation are provided below.

The workshop will be held in three segments over two days as follows:

**Monday, June 22, 2020**
- 2:00 PM: Session 1 – VGI Roadmap, Use Cases and Benefits of VGI

**Wednesday, June 24, 2020**
- 9:30 AM: Session 2 – Charging Infrastructure Funding Programs
- 1:30 PM: Session 3 – Scaling VGI and Charging Infrastructure

**Remote Access Only** - Remote access is available by computer or phone via Zoom™. For details, go to the CEC Zoom page at https://energy.zoom.us/
Agenda
This workshop will focus on an assessment of the current status of electric vehicle (EV) charging and VGI. It will also explore pathways for increasing EV charging infrastructure and VGI with less public funding and more private sector investment.

Session 1 will take place on Monday, June 22. It will feature a discussion on the development of the 2020 VGI Roadmap Update by CEC staff and a panel discussion of potential benefits and opportunities for VGI. The panel will include academics and private sector actors in current VGI projects.

Session 2 will take place on Wednesday, June 24. It will feature a presentation of the value of EV charging infrastructure and a panel discussion. The panel will discuss current charging funding programs and include CEC and CPUC staff and companies that have implemented public charging networks.

Session 3 will take place on Wednesday, June 24. It will feature two panel discussions on the prospects for rapidly scaling both VGI and vehicle charging infrastructure. The panels will focus on alternative funding streams to increase private sector growth for both aspects of EV energy management. Panelists will include CEC and CPUC staff, charging and VGI companies, and private investment analysts.

A detailed meeting schedule will be posted prior to the workshop at the 2020 IEPR Update Workshops, Notices, and Documents page, https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2020-integrated-energy-policy-report-update-0.

Background
The transportation sector remains the largest contributor to greenhouse gas (GHG) emissions in the state and, unlike other sectors, has not seen a decline in emissions in recent years. Several policies call for increases in ZEVs and transportation solutions to reduce GHG and harmful air pollutants statewide.

- Pursuant to the California Global Warming Solutions Act of 2006, the California Air Resources Board’s (CARB) 2017 Climate Change Scoping Plan scenario for GHG reduction establishes a goal for increasing ZEVs on the road through 2030, specifically including EVs.

- Assembly Bill (AB) 2514 (Skinner, Chapter 469, Statutes of 2010) called for the CPUC to determine appropriate targets for viable and cost-effective energy storage systems. CPUC Decision D.14-10-045 clarifies that energy storage systems may include vehicle-to-grid systems.1

- AB 2127 (Ting, Chapter 365, Statutes of 2018) requires the CPUC and CARB to work with the CEC to prepare a statewide assessment of vehicle charging infrastructure needed to

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1 CPUC, Decision 14-10-045, October 16, 2014. Available at: https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M127/K426/127426247.PDF
support the levels of vehicle charging to meet the goal of putting at least five million ZEVs on the road by 2030.

- Executive Order B-48-18 calls for state entities to work with the private sector to spur the installation of 250,000 ZEV chargers, including 10,000 direct current fast chargers.

- The CEC's 2019-2020 Clean Transportation Program Investment Plan anticipates a gap of more than 80,000 chargers from the goal of 250,000 by 2025. In the report, CEC staff recommends an aggressive near-term funding solution to help meet the gap.²

- Executive Order N-19-19 requires the state to redouble efforts to reduce GHG emissions and meet the 2030 goal in part by considering and/or proposing new strategies, incentive programs, and regulations to increase demand for ZEVs.


Consistent with these policies and recommendations, this workshop will inform staff and the Lead 2020 IEPR Update Commissioner with the latest information on the VGI roadmap, the potential for quickly increasing VGI systems, the status of statewide charging funding programs, and the role private sector entities play in increasing vehicle charging infrastructure. The workshop will inform the development of the 2020 IEPR Update findings and policy recommendations.

Public Comment

Oral Comments:
Commissioners will accept oral comments at the end of each panel session. Public comments may be limited to three minutes or less per speaker and to one person per organization. To make a comment during the workshop, please use the “raise hand” feature in Zoom. If attending the workshop via telephone, dial *9 to raise your hand and *6 to mute/unmute your phone line.

Written comments.
Written comments must be submitted to the Docket Unit by 5:00 p.m. on July 15, 2020.

Written and oral comments, attachments, and associated contact information (including address, phone number, email address) will become part of the public record of this proceeding with access available via any Internet search engine.

The CEC encourages use of its electronic commenting system. Visit the CEC Electronic Add Comment page or visit https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=20-IEPR-02, which links to the comment page for this docket. Enter your contact information and a comment title describing the subject of your comment(s). Comments may be included in the “Comment Text” box or attached as a downloadable, searchable in Microsoft® Word (.doc, .docx) or Adobe® Acrobat® (.pdf) file. Maximum file size is 10 MB.

Written comments may also be submitted by email if you choose not to use the electronic filing system. Include the docket number 20-IEPR-02 and “VGI and Charging Funding” in the subject line and email to docket@energy.ca.gov.

If preferred, a paper copy may be sent to:

California Energy Commission  
Docket Unit, MS-4  
Re: Docket No. 20-IEPR-02  
1516 Ninth Street  
Sacramento, California 95814-5512

Public Advisor and Other Commission Contacts  
The CEC’s Public Advisor’s Office provides the public with assistance in participating in CEC proceedings. For information on how to participate in this proceeding, or to request language services or other reasonable accommodations, please contact the public advisor, Noemí O. Gallardo, at publicadvisor@energy.ca.gov, or by phone at (916) 654-4489, or toll free at (800) 822-6228. Requests for language services and reasonable accommodations should be made at least five days in advance. The CEC will work diligently to accommodate late requests.

Zoom: If you experience difficulties with the Zoom platform, please contact the Public Advisor’s office via email or phone. (Contact information above.)

Media inquiries should be directed to the Media and Public Communications Office at mediaoffice@energy.ca.gov or (916) 654-4989.

Questions on the technical subject matter of this meeting should be directed to Quentin Gee at quentin.gee@energy.ca.gov or (916) 654-3837.

For general questions regarding the IEPR proceeding, please contact Raquel Kravitz at raquel.kravitz@energy.ca.gov or (916) 651-8836.

Remote Attendance  
Participants may join any or all scheduled panel sessions by clicking on the links below. You may also access Zoom at this address, https://join.zoom.us, and enter the unique Webinar ID and password for each session (listed below). Zoom technical support is available at 1-888-799-9666 ext. 2, or you may contact the CEC’s Public Advisor’s Office at publicadvisor@energy.ca.gov or
(916) 654-4489, or toll-free at 800-822-6228. To comment or ask a question using Zoom’s online platform, use the “raise hand” feature. To comment by telephone, see instructions below.

Monday June 22, 2020

Click Session 1 – VGI Roadmap, Use Cases and Benefits of VGI
(https://energy.zoom.us/j/92747722049?pwd=S3l2YUJsblFTcW45M2grRXVEREx6dz09)
Webinar ID: 927 4772 2049         Password: IEPR2020

Wednesday June 24, 2020

Click Session 2 – Charging Infrastructure Funding Programs
(https://energy.zoom.us/j/92841508812?pwd=NURPVWx1QXMyWmNaaXNkMkx5WHBvUT09)
Webinar ID: 928 4150 8812         Password: IEPR2020

Click Session 3 – Scaling VGI and Charging Infrastructure
(https://energy.zoom.us/j/97905632648?pwd=dDBvNW14ZTNTU2FOdmlrdzN4MlhmZz09)
Webinar ID: 979 0563 2648         Password: IEPR2020

Participate by Telephone:
To participate by telephone, call Zoom at 1-888-475-4499 (toll free). When prompted, input the unique Webinar ID for the session of your choice (listed above). To comment or ask a question over the telephone, dial *9 to “raise your hand” and *6 to mute/unmute.

Availability of Documents
Documents and presentations for this meeting will be available online at IEPR Workshop, Meeting and Request Comments,
https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2020-integrated-energy-policy-report-update or Docket Log: 20-IEPR-02,

When new information is posted, an email will be sent to those on the energypolicy list serve. Those interested in receiving these notices can subscribe in the lower right corner at the Integrated Energy Policy Report page, https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report, or alternatively manage existing list serves or sign up for others at the CEC List Servers, http://www.energy.ca.gov/listservers/index.html.

Dated: Friday June 12, 2020, at Sacramento, California

Original signed by:

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Patty Monahan
Commissioner

List Servers: energypolicy, electricity, transportation, altfuels, dcag, diversity, barriers