

DOCKETED

Docket Number:	16-TRAN-01
Project Title:	SB 350 Transportation Electrification (Publicly Owned Utilities)
TN #:	214557
Document Title:	Notice of Vehicle-Grid Integration Communications Standards Workshop
Description:	Notice of Workshop and agenda
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Organization:	California Energy Commission
Submitter Role:	Commission Staff
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Docketed Date:	11/23/2016



In the matter of:)	Docket No. 16-TRAN-01 and
)	16-OIR-03
WORKSHOP TO DISCUSS VEHICLE-GRID)	
INTEGRATION COMMUNICATIONS)	NOTICE OF WORKSHOP
STANDARDS)	
_____)	RE: Vehicle-Grid Integration
)	Communication Standards

Notice of Vehicle-Grid Integration Communications Standards Workshop

California Energy Commission staff will conduct a public workshop in cooperation with the California Public Utilities Commission (CPUC), the California Air Resources Board (ARB), and the California Independent System Operator (California ISO) to discuss communication standards for Vehicle-Grid Integration. This public workshop supports the state's implementation of the transportation electrification directives of Senate Bill 350 (de Leon, Chapter 547, Statutes of 2015) and the actions of the *Vehicle-Grid Integration Roadmap* as ordered by Executive Order B-16-2012. Commissioners may attend and participate in the workshop.

The workshop will be held on:

Wednesday, December 7, 2016
 10 a.m.
 CALIFORNIA ENERGY COMMISSION
 1516 Ninth Street
 First Floor, Imbrecht Hearing Room
 Sacramento, California
 (Wheelchair Accessible)

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

Agenda

Staff will present information on vehicle to grid communication standards, including: zero-emission vehicle (ZEV) policies, grid needs, and technology options for ZEV grid integration. Also, stakeholders will present information and their perspectives on standards for vehicle to grid communication. The workshop will include a staff-facilitated discussion of benefits and costs of adopting and implementing vehicle to grid communication standards and paths to maintain progress to meet requirements of

transportation-related sections of SB 350 and Governor Brown's Executive Order B-16-2012.

This workshop will:

- Be held in cooperation among the staff of the Energy Commission, CPUC, ARB, and California ISO.
- Inform stakeholders on how the implementation of CPUC Energy Division's recommendation may affect other complementary ZEV policies in California.
- Assist utility formation of SB 350 transportation electrification applications and plans.
- Inform future continued efforts to develop grid-integrated charging infrastructure per Executive Order B-16-2012.

A workshop agenda is attached. Further information will be available online at <http://www.energy.ca.gov/altfuels/2016-TRAN-01/documents/>.

Background

In March 2012, Governor Brown issued an executive order directing the state government to help accelerate the market for ZEVs in California. Executive Order B-16-2012 establishes milestones on a path toward the development of grid-integrated charging infrastructure to support 1 million ZEVs in California by 2020 and to deploy 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 CPUC, ARB, Energy Commission, California ISO, and other state agencies.

As part of the 2013 ZEV Action Plan, Energy Commission, California ISO, CPUC, 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.

In September 2016, in the CPUC's Rulemaking R.13-11-007, assigned CPUC Commissioner Carla Peterman published a Ruling Regarding the Filing of Transportation Electrification Applications Pursuant to Senate Bill 350. This ruling included a recommendation from CPUC Energy Division staff that the investor-owned utilities' vehicle-grid integration programs, including those associated with electric vehicle supply equipment deployed through utility applications, conform to the ISO/IEC 15118 vehicle-grid communication interface specifications.

In October 2016, the Governor's Office published an updated 2016 ZEV Action Plan. A new action requires the agencies to expand the scope of the vehicle-grid integration interagency task force to: 1) ensure technology research is coordinated with the

development of standards, procurement policies, and tariffs; 2) help ensure vehicle interactions with the energy system are harmonized across utility territories; and 3) help ensure ratepayer investments return maximum benefits for the grid.

Public Comment

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

Written comments. Written comments should be submitted to the Dockets Unit by 5:00 p.m. on **December 14, 2016**. Written comments will also be accepted at the workshop; however, staff may not have time to review them before the workshop conclusion.

Additionally, written comments may be posted to the Energy Commission's website for the proceeding using the Energy Commission's e-commenting feature by going to <http://www.energy.ca.gov/altfuels/2016-TRAN-01/> and selecting the "Submit eComment" link. 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.

The Energy Commission encourages comments by email. Please include your name and any organization name. Comments should be in a downloadable, searchable format such as Microsoft® Word (.doc) or Adobe® Acrobat® (.pdf). Please include the docket number 16-TRAN-01 and indicate "Vehicle-Grid Integration Communications" in the subject line. Send comments to:

docket@energy.ca.gov

If you prefer, you may send a paper copy of your comments to:

California Energy Commission
Dockets Office, MS-4
Re: Docket No. 16-TRAN-01
1516 Ninth Street
Sacramento, California 95814

Public Adviser and Other Commission Contacts

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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 Noel Crisostomo at noel.crisostomo@energy.ca.gov or (916) 653-8625.

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Availability of Documents

Documents and presentations for this meeting will be available online at:
<http://www.energy.ca.gov/altfuels/2016-TRAN-01/documents/>.

November 23, 2016

John Kato
Deputy Director

Mail Lists: AltFuels, Electricity, EPIC, ImplementationSB350, Newsletter, Research,
Transportation

**DRAFT
Agenda
Vehicle-Grid Integration Communications Standards Workshop
California Energy Commission
Imbrecht Hearing Room
December 7, 2016
Beginning at 10:00 am**

Purpose: Staff will conduct a public workshop in cooperation with the California Public Utilities Commission (CPUC), California Air Resources Board (ARB), and the California Independent System Operator (California ISO) to discuss the consideration of communication standards for Vehicle-Grid Integration.

Workshop Introduction and Overview

- Introduction and logistics
- Agenda and purpose

Joint Agency Activities

- Policy and Industrial Context, Grid Needs, and Technological Options Presentation
- Alternative Approaches to Implement VGI
- ISO/IEC 15118 Presentation
- Public Comment Session

Staff-Facilitated Discussion

- Benefits and Costs of Adopting or Implementing Standards
- Paths to maintain progress to timely meet requirements of Senate Bill 350 and Executive Order B-16-2012
- Next steps

Public Comment