



CALIFORNIA ENERGY COMMISSION

Welcome

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

December 14, 2015

Kiel Pratt

**Energy Research and Development Division
California Energy Commission**



Housekeeping

- In Case of Emergency
- Facilities
- Sign-In Sheet
- Diversity Survey
- Q&A protocol



Agenda

Time	Topic
9:00 am	WELCOME AND COMMISSIONER OPENING REMARKS
9:15 am	UPDATES FROM AGENCIES AND THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR
10:50 am	TECHNICAL RESEARCH UPDATES
3:00 pm	ELECTRIC VEHICLE FLEET PANEL DISCUSSION
4:00 pm	PUBLIC COMMENT, NEXT STEPS AND ACTION ITEMS, AND CLOSING



CALIFORNIA ENERGY COMMISSION

Agenda

Time	Item
9:00 a.m. - 9:15 a.m.	WELCOME AND OPENING REMARKS <ul style="list-style-type: none">➤ Welcome and Housekeeping<ul style="list-style-type: none">- Kiel Pratt, California Energy Commission➤ Commissioner Opening Remarks<ul style="list-style-type: none">- Janea A. Scott, Lead Commissioner on Transportation, California Energy Commission
9:15 a.m. - 10:50 a.m.	UPDATES FROM AGENCIES AND THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR <ul style="list-style-type: none">➤ Update on Vehicle-Grid Integration (VGI) Initiatives from the Energy Commission<ul style="list-style-type: none">- Mike Gravely, California Energy Commission- Kadir Bedir, California Energy Commission➤ Update on VGI Initiatives from the California ISO<ul style="list-style-type: none">- Peter Klauer, California Independent System Operator➤ Update on VGI Initiatives from the CPUC<ul style="list-style-type: none">- Noel Crisostomo, California Public Utilities Commission- Adam Orford, California Public Utilities Commission➤ Q&A Session on Updates



Commitment to Diversity

The Energy Commission adopted a resolution strengthening its commitment to diversity in our funding programs. We continue to encourage disadvantaged and underrepresented businesses and communities to engage in and benefit from our many programs.

To meet this commitment, Energy Commission staff conducts outreach efforts and activities to:

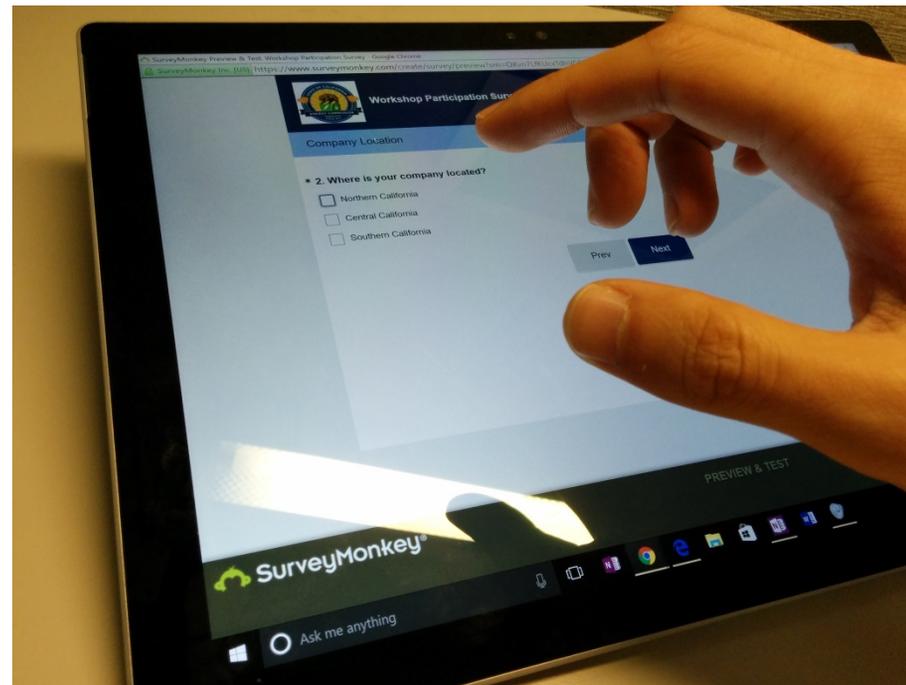
- Engage with disadvantaged and underrepresented groups throughout the state.
- Notify potential new applicants about the Energy Commission's funding opportunities.
- Assist applicants in understanding how to apply for funding from the Energy Commission's programs.
- Survey participants to measure progress in diversity outreach efforts.



We Want to Hear From You!

1 Minute Survey

- The information supplied will be used for public reporting purposes to display anonymous overall attendance of diverse groups.
- Does your company identify as an underrepresented group?
- Where is your company located?
- How did you hear about the workshop?
- **Online survey for WebEx Participants:**
<https://www.surveymonkey.com/r/CEC-12-14-2015>





Vehicle-Grid Integration

“The term vehicle-grid integration or VGI, as used in this roadmap, encompasses the ways EVs can provide grid services.”

- California Vehicle-Grid Integration Roadmap: Enabling vehicle-based grid services



Vehicle-Grid Integration

“Vehicle-Grid Integration (VGI) is the **process** of developing technology and policy frameworks for enabling EV-based grid services, including demand response and energy storage. The VGI activities include EV load tracking, load management, and deployment of enabling technologies.”



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Commissioner Opening Remarks

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Janea A. Scott

Lead Commissioner on Transportation

California Energy Commission