

#### VGI Workgroup Launch Meeting

Justin Regnier
Workgroup Facilitator

CPUC Auditorium
San Francisco, California

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## Agenda

Торіс	Start time	End time
Introductory remarks	9:00 AM	9:10
Sponsoring Agency remarks	9:10	9:25
Review of Staff Straw Proposal and discussion of meeting format, process for participation	9:25	9:45
Guidelines for participation (ground rules) in today's discussion	9:45	10:00
Break	10:00	10:10
Round of introductions	10:10	10:40
Feedback from stakeholders on Staff Straw Proposal, participants, and schedule	10:40	11:10
Feedback from stakeholders on Use Cases of interest	11:10	11:40
Review of discussion and action items	11:40	11:50
Review of Meeting Schedule and methods for providing comments/feedback	11:50	12:00



### **Introductory Remarks**



### **Sponsoring Agency Remarks**



## Review of Staff Straw Proposal

Process that was used for creating the SP

- Questions to be answered
- Membership group
- Frequency and format of meetings

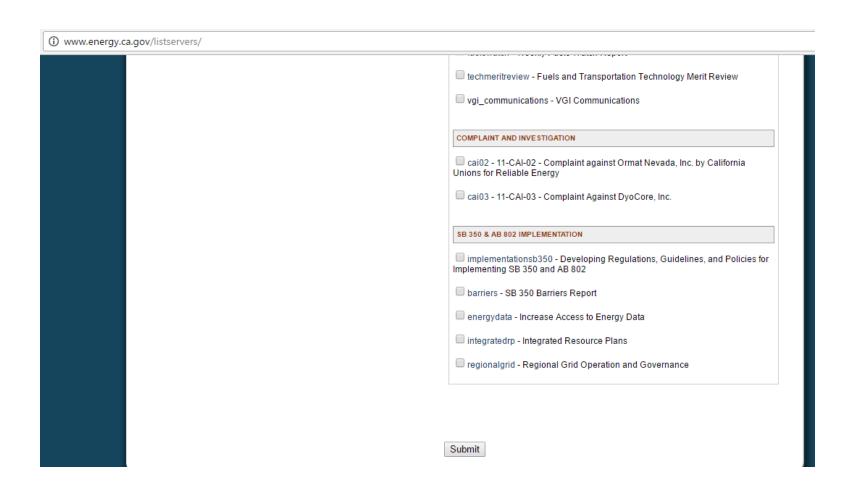


## Meeting Format

- Meetings will be held every second Monday, via Webex
- Duration will be 2 hours
- A listserve has been established for participation:
  - http://www.energy.ca.gov/listservers/



#### Listserve





### Website - http://www.cpuc.ca.gov/vgi/





## Guidelines For Participation

- Self nominate organization spokespersons
- No repetition of previous points
- Stay within the topic area being discussed
- Focus on use cases, not the benefits of a particular communications protocol
- Focus on information sharing, not opinions where possible.
- Line up at the microphones, announce yourself/organizations
- Three minute speaking limit in order to enable everyone to have a turn to speak



#### Break



#### Introductions – Please state

- Name
- Organization
- Interest in participating in WG
- How communications impact your organization or business model
- Keep to 1 min per person if possible to save time for discussion



## Feedback on Straw Proposal

- Proposal
- Participants
- Questions to be addressed
- Criteria to be used in evaluating questions



#### Feedback on business/use cases



#### Review of discussion and action items



## Methods for staying involved

- Listserve
- Website
- email





## Meeting Schedule

Date	<u>Topic</u>	
	Kickoff Meeting/Review existing and identify any additional potential VGI use cases. How can customers, third parties, and utilities extract value	
4/24/2017	from these use cases?	
	Review the current technical and economic barriers to implementing VGI use cases. Identify any market barriers that may be addressed by state	
5/8/2017	action.	
5/22/2017	Review research that has been conducted in California and globally by utilities, automakers, charging companies, and others related to VGI. What lessons learned from the research are relevant to working group activities?	
6/5/2017	What frameworks, outcomes, or criteria have prior studies employed to analyze the functionalities, costs, efficiency, interoperability, (or other factors) of VGI communications protocols	
9/ 9/ 2021	What are the existing or proposed network architectures for VGI? How are existing network architectures designed to host communication	
	protocols in the devices needed for VGI? What are the pros/cons of each architecture? Can these architectures support multiple communication	
6/19/2017	protocols?	
_ /- /	How do automakers, charging providers, and IOUs measure the value of the proposed protocols and whether implementation will be cost-	
7/3/2017	effective? How could market participants measure cost-effectiveness?	



#### CALIFORNIA ENERGY COMMISSION

# Meeting Schedule

<u>Date</u>	<u>Topic</u>
7/17/2017	What technology, hardware, and/or software is currently available to test the proposed protocols? Where are technology gaps?
	Can selecting an open-source network architecture enable the market to test, implement, and continually improve multiple protocols while
7/31/2017	maintaining simplicity for drivers? What are the implications of architecture design for market participants manufacturing devices?
	How do proposed protocols fit within the larger context of communications between vehicles, EVSE, the grid, utilities, automakers, EVSPs, and
8/14/2017	other distributed energy resources?
	How have IOUs tested whether proposed protocols/architectures are effective in facilitating VGI and what improvements should be made to
	enable scale? What contractual terms and conditions should utilities include in procurement or other programs to ensure EVs can provide grid
8/28/2017	value?
	Review the existing applicable communication protocols.
	a. For a VGI resource regulated at the EVSE, how can different communication protocols enable a pathway to utility markets for the VGI product?
	b. For a VGI resource regulated at the EV, how can different communication protocols enable a pathway to utility markets for the VGI product?
9/11/2017	c. What are the pros and cons of each communication protocol?
9/25/2017	Review of topics and takeaways, last call for contribution/arguments/resources



## Thank you

Justin Regnier
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