

**DOCKETED**

<b>Docket Number:</b>	22-HYD-01
<b>Project Title:</b>	Hydrogen Fuel Cell Electric Vehicle Infrastructure Opportunities and Barriers
<b>TN #:</b>	252727
<b>Document Title:</b>	Notice of CEC Joint Workshop with CARB and GO-Biz to Discuss the Fuel Cell Electric Vehicle (FCEV) Customer Experience
<b>Description:</b>	November 6, 2023 9:30 a.m. – 3:00 p.m. Remote Access Only
<b>Filer:</b>	Spencer Kelley
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
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**CALIFORNIA ENERGY COMMISSION**715 P Street  
Sacramento, California 95814[energy.ca.gov](http://energy.ca.gov)

CEC-70 (Revised 7/22)

**IN THE MATTER OF:***Fuel Cell Electric Vehicles and  
Hydrogen Refueling Infrastructure*

DOCKET NO. 22-HYD-01

NOTICE OF REMOTE ACCESS  
WORKSHOP

RE: Fuel Cell Electric Vehicles

**Notice of CEC Joint Workshop with CARB and GO-Biz to Discuss  
the Fuel Cell Electric Vehicle (FCEV) Customer Experience  
November 6, 2023**

9:30 a.m. – 3:00 p.m.

Remote Access Only

See Attendance Instructions.

The California Energy Commission (CEC) will host a joint workshop with the California Air Resources Board (CARB) and the Governor's Office of Business and Economic Development (GO-Biz) to discuss the customer experience at light-duty fuel cell electric vehicle refueling stations and the barriers to commercialization and deployment of fuel cell electric vehicles. The workshop will also provide an opportunity for residents who live near open and planned hydrogen refueling stations to give feedback on California's network of hydrogen refueling stations.

The public can participate in the workshop consistent with the attendance instructions below. The CEC aims to begin promptly at the start time posted and the end time is an estimate based on the proposed agenda. The workshop may end sooner or later than the posted end time.

**Agenda**

This workshop will include presentations and discussions with hydrogen station developers, automakers, hydrogen fuel suppliers, fuel cell electric vehicle drivers, and residents who live near open and planned hydrogen refueling stations. Topics will include the Clean Transportation Program, hydrogen station location and development plans, low carbon hydrogen supply and costs, station reliability and equipment, and the consumer experience. The workshop will also include a public comment period.

A more detailed agenda will be posted prior to the workshop at [the docket page](https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-HYD-01), <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-HYD-01>.

## Background

The CEC's Clean Transportation Program has allocated nearly \$267 million in public hydrogen infrastructure primarily for light-duty vehicles. California is expected to have 130 hydrogen refueling stations by 2027 with at least 7 stations capable of fueling medium- or heavy-duty vehicles. As of July 17, 2023, 65 stations have achieved open retail status.

The 65 open retail stations can serve up to 56,000 FCEVs when operating at capacity, more than the fueling needs of 13,664 light-duty FCEVs estimated to be on the road as of June 30, 2023. However, station downtime and recent hydrogen price spikes undermine the customer experience. Of the 65 open retail stations, 12 have been offline for more than 30 days. These open stations have operated at around 60 percent of their full capacity on average, due to maintenance, equipment failures, supply chain constraints, and hydrogen supply disruptions. To address these barriers and give FCEV drivers confidence in the refueling network, both the state and industry stakeholders must work together.

In collaboration with CARB, Go-Biz, and industry stakeholders, this CEC workshop is intended to discuss the light-duty FCEV customer experiences at hydrogen refueling stations in California and identify new strategies to overcome key barriers.

## Remote Attendance Instructions

**Remote** participants may join via Zoom by internet or phone.

- **To join via Zoom.** Click on <https://energy.zoom.us/j/95443784424?pwd=OWVJL1FqTDIYeSs0RVpFOC8vaDJ5Zz09> or login in at <https://zoom.us/> and enter the Webinar ID **860 8814 7553** and passcode **483895** and follow all prompts.
- **To join by telephone.** Call toll-free at (888) 475-4499 or toll at (669) 219-2599. When prompted, enter the Webinar ID **860 8814 7553** and passcode **483895**.

**Zoom Closed Captioning Service.** At the bottom of the screen, click the Live Transcript CC icon and choose "Show Subtitle" or "View Full Transcript" from the pop-up menu. To stop closed captioning, close the "Live Transcript" or select "Hide Subtitle" from the pop-up menu. If joining by phone, closed captioning is automatic and cannot be turned off. While closed captioning is available in real-time, it can include errors.

**Zoom Difficulty.** Contact Zoom at (888) 799-9666 ext. 2, or the CEC Public Advisor at [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov), or by phone at (916) 957-7910.

## Public Comment.

The CEC encourages the use of its electronic commenting system. Visit the e-commenting page for this docket at <https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=22-HYD-01>. Enter your contact information and a subject title that describes your comment. Comments may be included in the "Comment Text" box or attached as a downloadable, searchable document in Microsoft® Word or Adobe® Acrobat®. The maximum file size allowed is 10 MB.

**Oral comments** will be accepted at the end of the workshop. Comments may be limited to three minutes or less per speaker and one person per organization. To comment via Zoom, use the "raise hand" feature so the administrator can announce your name and unmute you. To comment via telephone, press \*9 to "raise your hand" and \*6 to mute/unmute.

**Written comments** may be submitted to the Docket Unit by 5:00 p.m. on December 4, 2023. Written and oral comments, attachments, and associated contact information (including address, phone number, and email address) will become part of the public record of this proceeding with access available via any internet search engine. Written comments may also be submitted by email. Include docket number 22-HYD-01 and Fuel Cell Electric Vehicle Customer Experience Workshop in the subject line and email to [docket@energy.ca.gov](mailto:docket@energy.ca.gov).

A paper copy may be mailed to:  
California Energy Commission  
Docket Unit, MS-4  
Docket No. 22-HYD-01  
715 P Street  
Sacramento, California 95814

**Public Advisor.** The CEC's Public Advisor assists the public with participation in CEC proceedings. To request assistance, interpreting services, or reasonable modifications and accommodations, call (916) 957-7910 or email [publicadvisor@energy.ca.gov](mailto:publicadvisor@energy.ca.gov) as soon as possible but at least five days in advance of the workshop. The CEC will work diligently to meet all requests based on availability.

**Media Inquiries.** Email [mediaoffice@energy.ca.gov](mailto:mediaoffice@energy.ca.gov) or call (916) 654-4989.

**Technical Subject and General Inquiries.** Email Mark Johnson at [mark.johnson@energy.ca.gov](mailto:mark.johnson@energy.ca.gov) or call (916) 776-7196.

**Availability of Documents:** Documents and presentations for this meeting will be available at [the docket page](https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-HYD-01), <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-HYD-01>. When new information is posted, an email will be sent to those subscribed to the Clean Transportation Program subscription topic. To receive these notices or notices of other email subscription topics, visit [Subscriptions](https://www.energy.ca.gov/subscriptions), at <https://www.energy.ca.gov/subscriptions>.

**Dated:** October 25, 2023, at Sacramento, California.

*Melanie Vail*

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Melanie Vail  
Deputy Director, Fuel and Transportation Division

**Subscriptions:**  
Clean Transportation Program