

| <b>DOCKETED</b>         |  |
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| <b>Docket Number:</b>   | 20-IEPR-02   |
| <b>Project Title:</b>   | Transportation   |
| <b>TN #:</b>            | 233581   |
| <b>Document Title:</b>  | Notice of IEPR Commissioner Workshop on Hydrogen and Fuel Cell Electric Vehicle Market Status  |
| <b>Description:</b>     | *SUPERSEDES TN 233571* 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 lightduty 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. |
| <b>Filer:</b>           | Harrison G Reynolds  |
| <b>Organization:</b>    | California Energy Commission   |
| <b>Submitter Role:</b>  | Commission Staff   |
| <b>Submission Date:</b> | 6/22/2020 11:09:28 AM  |
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**CALIFORNIA ENERGY COMMISSION**1516 Ninth Street  
Sacramento, California 95814Main website: [www.energy.ca.gov](http://www.energy.ca.gov)

CEC-70 (Revised 09/19)



|  |   |                                     |
|--|---|-------------------------------------|
| In the matter of:                                  | ) | Docket No. 20-IEPR-02               |
|  | ) |                                     |
| <i>2020 Integrated Energy Policy Report Update</i> | ) | NOTICE OF REMOTE ACCESS             |
| <i>(2020 IEPR Update)</i>                          | ) | WORKSHOP                            |
|  | ) |                                     |
|  | ) | RE: Hydrogen and Fuel Cell Electric |
|  | ) | Vehicle Market Status               |
| _____  | ) |                                     |

## Notice of IEPR Commissioner Workshop on Hydrogen and Fuel Cell Electric Vehicle Market Status

The California Energy Commission (CEC) will conduct a workshop to discuss the status of the hydrogen and fuel cell electric vehicle (FCEV) markets. The workshop is part of the Energy Commission's *2020 Integrated Energy Policy Report Update (2020 IEPR Update)* proceeding.

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 two segments over one day as follows:

### Thursday, July 2, 2020

- 9:30 AM: Session 1 – Hydrogen Supply and Infrastructure Status
- 1:30 PM: Session 2 – FCEV Market Status

**Remote Access Only** - Remote access is available via [Zoom](https://energy.zoom.us/).™ For details, go to the [CEC Zoom page](https://energy.zoom.us/) at <https://energy.zoom.us/>

### Agenda

This workshop will focus on the status and trends and markets in FCEV and hydrogen.

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

partnering state agencies, market research firms, FCEV manufacturers, hydrogen fueling station developers, transportation districts using FCEVs, and other stakeholders.

A detailed meeting schedule will be posted prior to the workshop at the [2020 IEPR Update Workshops, Notices, and Documents](https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2020-integrated-energy-policy-report-update-0) 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. Zero-emission vehicles (ZEVs), including vehicles that refuel with electricity or hydrogen, represent a critical pathway for reducing GHG emissions from the transportation sector. For this reason, a number of statewide policies have called for an accelerated transition to ZEVs, including FCEVs.

- Pursuant to Assembly Bill 32 (Núñez, Chapter 488, Statutes of 2006), the California Air Resources Board's (CARB) *California's 2017 Climate Change Scoping Plan* scenario for GHG reduction establishes a goal for increasing ZEVs on the road through 2030, including FCEVs.
- Senate Bill 350 (De León, Chapter 547, Statutes of 2015) directs state agencies to identify and assess barriers for zero-emission transportation options for disadvantaged communities, and to develop recommendations on how to increase ZEV access and benefits in disadvantaged communities. Pursuant to Senate Bill 350, CARB, in consultation with the CEC, released the "Low-Income Barriers Study, Part B: Overcoming Barriers to Clean Transportation Access for Low-Income Residents - Final Guidance Document" in February 2018.<sup>1</sup>
- Executive Order B-48-18 established a goal for 5 million ZEVs on California's roads and 200 hydrogen fueling stations installed in the state by 2030, and also orders state entities to ensure that hydrogen fueling options are affordable and accessible to all drivers.
- Executive Order N-19-19 requires the state to redouble efforts to reduce GHG emissions in part by proposing new strategies to increase demand for affordable ZEVs.

Consistent with these policies and orders, this workshop will inform staff and the lead *2020 IEPR Update* Commissioner on the latest market trends, opportunities, and challenges for FCEVs as a strategy to increase ZEV adoption statewide in alignment with these policies. It will contribute to the development of the *2020 IEPR Update* findings and policy recommendations.

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<sup>1</sup> California Air Resources Board, "[Low-Income Barriers Study, Part B: Overcoming Barriers to Clean Transportation Access for Low-Income Residents - Final Guidance Document](https://ww2.arb.ca.gov/sites/default/files/2018-08/sb350_final_guidance_document_022118.pdf)," February 21, 2018. Available at: [https://ww2.arb.ca.gov/sites/default/files/2018-08/sb350\\_final\\_guidance\\_document\\_022118.pdf](https://ww2.arb.ca.gov/sites/default/files/2018-08/sb350_final_guidance_document_022118.pdf)

## **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 23, 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.

### **For the 2020 IEPR Update, 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 "Hydrogen and Fuel Cell Electric Vehicles" in the subject line and email to [docket@energy.ca.gov](mailto:docket@energy.ca.gov).

If preferred, a paper copy may be sent to:

California Energy Commission  
Docket Unit, MS-4  
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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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.

### **Thursday July 2, 2020**

#### **Click [Session 1 – Hydrogen Supply and Infrastructure Status](#)**

(<https://energy.zoom.us/j/96082777676?pwd=MkVqYjIwcXA5OXRjelQ3bGpmdGRPdz09>)  
Webinar ID: **960 8277 7676**    Webinar Password: **IEPR2020**

#### **Click [Session 2 – FCEV Market Status](#)**

(<https://energy.zoom.us/j/99985034825?pwd=Mi9jWjlrU2VMMTVGekZmRjZ0c0ozUT09>)  
Webinar ID: **999 8503 4825**    Webinar 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](#),

<https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=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 19, 2020, at Sacramento, California

Original Signed by:

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Patty Monahan  
Commissioner  
2020 Integrated Energy Policy Report Update

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