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CALIFORNIA ENERGY COMMISSION

1516 Ninth Street
Sacramento, California 95814

Main website: www.energy.ca.gov



In the matter of:)	Docket No. 17-HYD-01
)	
Alternative and Renewable Fuel and Vehicle)	WORKSHOP
Technology Program)	RE: Pre-Solicitation Workshop on
)	Implementation Strategies for
)	Production of Renewable Hydrogen
)	in California

**Notice of Pre-Solicitation Workshop on
Implementation Strategies for Production of
Renewable Hydrogen in California**

The California Energy Commission’s Fuels and Transportation Division staff will conduct a staff workshop to evaluate technology, identify available feedstock resources, and develop strategies that can lead to the increased in-state production of renewable hydrogen transportation fuel. Workshop results will inform a renewable hydrogen production solicitation utilizing Emerging Opportunities funding.

January 30, 2017
9:00 a.m.
CALIFORNIA ENERGY COMMISSION
1516 Ninth Street
First Floor, Art Rosenfeld Hearing Room
Sacramento, California 95814
Wheelchair Accessible

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

Background

Senate Bill 1505 (Lowenthal, Chapter 877, Statutes of 2006) requires hydrogen refueling stations operating in California to dispense 33.3 percent renewable hydrogen. Hydrogen refueling stations receiving state funds must meet the requirement today as provided for in SB 1505. SB 1505 contributes to the reduction of greenhouse gas, criteria air pollutant, and toxic air contaminant emissions through the increased use of renewable hydrogen.

According to the California Air Resources Board's 2016 Annual Evaluation of Hydrogen Fuel Cell Electric Vehicle Deployment and Hydrogen Fuel Station Network Development, the demand for renewable hydrogen is projected to reach 7,400 kg/day by 2022 for current and projected stations. Based on station throughput and the projected delivery of stations in the "business-as-usual" scenario of 180 kg/day station capacity, 5,500 kg/day will be needed by 2022 to meet the 33.3 percent renewable requirement. Some station developers informed Energy Commission staff that their mission is to dispense more renewable hydrogen, meaning more sources for renewable hydrogen may be necessary.

Higher hydrogen demand implies there will be increasing opportunities to produce renewable hydrogen at larger scales, bringing down costs. Opportunities include grid-connected electrolysis or dedicated electrolysis at solar or wind facilities. Grid-connected electrolysis systems can operate dynamically and can serve as a means of converting otherwise curtailed renewable energy into a high-quality fuel for the transportation sector. Other opportunities include converting biomass, biogas, or waste resource streams directly to hydrogen.

The Energy Commission elicited testimony and analytical studies from several stakeholders in the 2014 - 2018 Investment Plans for the Alternative and Renewable Fuel and Vehicle Technology Program, who noted the need for funding to allow for the development and implementation of renewable hydrogen fuel production technologies in California at both the large centralized commercial scale and small distributed scale. Stakeholders also expressed the critical need for reliable and consistent hydrogen fuel production during the initial roll out of fuel cell electric vehicles to ensure hydrogen fuel will always be available when needed by the customers. The 2016-2017 Investment Plan Update for the Alternative and Renewable Fuel and Vehicle Technology Program highlights hydrogen production from renewable sources in California as a potential project type eligible for funding under the Emerging Opportunities category.

This workshop presents an opportunity for stakeholders to discuss the need and uses for renewable hydrogen and the steps required to establish renewable hydrogen production facilities, including California Environmental Quality Act (CEQA) compliance, project feasibility, opportunities to leverage available renewable energy resources and partnerships, ways the state can facilitate the use of existing resources, state-of-the-art and available technologies, centralized production compared to onsite production, innovative strategies to lower production and distribution costs, effective business plans/models, Low Carbon Fuel Standard (LCFS) credit revenue, where renewable hydrogen plants are needed or should be located, and regional plans to incorporate renewable hydrogen facilities. Use of this information will help inform a renewable hydrogen production solicitation utilizing Emerging Opportunities funding.

Public Comment

Oral comments – Oral comments will be accepted during the workshop. Comments may be limited to three minutes per speaker and any comments will become part of the public record in this proceeding.

Written comments – Please submit comments to the Energy Commission using the e-commenting feature by accessing the Commission’s TRANSPORTATION webpage, <http://energy.ca.gov/altfuels/2017-HYD-01/> and click on the “Submit eComment” link. A full name, e-mail address, comment title, and either a comment or an attached document (.doc, .docx, or .pdf format) is mandatory. After a challenge-response test is used by the system to ensure that responses are generated by a human user and not a computer, click on the “Agree & Submit Your Comment” button to submit the comment to the Energy Commission’s Docket Unit.

Please note that written comments, attachments, and associated contact information included within the documents and attachments (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.

Interested stakeholders are encouraged to use the electronic filing system described above to submit comments. If you are unable to submit electronically, a paper copy of your comments may be sent to:

California Energy Commission
Dockets Office, MS-4
Docket No. 17-HYD-01
1516 Ninth Street
Sacramento, CA 95814-5512

Or e-mailing them to: DOCKET@energy.ca.gov and indicating the proceeding title – Renewable Hydrogen Transportation Fuel Production

Public Adviser and Other Energy Commission Contacts

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If you have a disability and require assistance to participate, please contact Poneh Jones at Poneh.Jones@energy.ca.gov or (916) 654-4425 at least five days in advance.

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 Matthew Ong at Matthew.Ong@energy.ca.gov or (916) 653-5285.

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Availability of Documents

Documents and presentations for this meeting will be available online at: <http://www.energy.ca.gov/altfuels/2017-HYD-01/>.

January 18, 2017

JOHN KATO
DEPUTY DIRECTOR

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Alternative fuels listserv
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