

**DOCKETED**

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<b>Project Title:</b>	Fuels and Transportation Merit Review
<b>TN #:</b>	224037
<b>Document Title:</b>	Notice of Workshop - Fuels and Transportation Technology Merit Review Manufacturing and Workforce Development
<b>Description:</b>	Notice of Lead Commissioner Fuels and Transportation Technology Merit Review Workshop: Manufacturing and Workforce Development - August 6, 2018
<b>Filer:</b>	Jessica Martinez
<b>Organization:</b>	California Energy Commission
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**CALIFORNIA ENERGY COMMISSION**

1516 Ninth Street  
 Sacramento, California 95814

Main website: [www.energy.ca.gov](http://www.energy.ca.gov)



In the matter of:	)	Docket No. 15-MISC-04
	)	
Fuels and Transportation Technology Merit	)	WORKSHOP
Review: Manufacturing and Workforce	)	RE: Fuels and Transportation
Development	)	Technology Merit Review:
		Manufacturing and Workforce
		Development

## Notice of Lead Commissioner Fuels and Transportation Technology Merit Review Workshop: Manufacturing and Workforce Development

Janea A. Scott, Lead Commissioner on Transportation for the California Energy Commission, will conduct a Fuels and Transportation Technology Merit Review workshop to highlight lessons learned from previous Alternative and Renewable Fuels and Vehicle Technology Program (ARFVTP) funding awards. The workshop will also explore challenges and opportunities to locate, expand, and recruit manufacturers of vehicles, infrastructure, and supply chain components in California. Discussion will include California workforce development relating to existing and future projects. Commissioner Scott will preside over the workshop with other commissioners possibly attending.

Monday, August 6, 2018  
 10:00 a.m. – 4:00 p.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

Since 2009, the ARFVTP has awarded \$49 million for grants to co-fund manufacturing plant expansion, pilot assembly lines, facility automation and technology improvements,

mostly for zero-emission vehicle (ZEV) production.<sup>1</sup> Additionally, ARFVTP manufacturing investments spur significant direct and indirect job creation, tax revenue, and regional economic development.

In January 2018, Governor Brown issued Executive Order B-48-18, which calls for the Energy Commission to support the development and installation of 250,000 electric vehicle charging stations and 200 hydrogen refueling stations by 2025 to support market growth to five million ZEVs by 2030.<sup>2</sup>

On May 4, 2018, the Energy Commission hosted a roundtable discussion in Long Beach titled "Bringing Zero-Emission Infrastructure Technology Manufacturing to California."<sup>3</sup> Discussion centered on actions California state and local governments could take to expand or recruit California-based manufacturing in all or part of the ZEV infrastructure supply chain while harnessing economic growth and job creation.

Recent California trends and goals have drawn interest from manufacturers of fueling and charging infrastructure equipment and supply chain components. California "startup" companies have entered the market to introduce innovations in existing technologies and create new technologies that demonstrate proof of concept, pilot progress, and early commercial success. While California firms excel in technology innovation, large scale manufactured products are mostly imported from other states and countries. In some instances, innovative technologies have progressed to large-scale manufacturing with expectations that manufacturing and product cost reductions will continue to occur. Sustainable market growth of new technologies provides the impetus for manufacturers to expand production and open up new facilities. When this happens, existing California manufacturers are positioned to respond to market growth.

Manufacturing studies published by the National Renewable Energy Laboratory<sup>4,5</sup> conclude that the density of production (i.e., having a ready supply chain and large-scale manufacturing) and the cost of local suppliers (compared to imported products) appear to be key factors for manufacturers to access cheaper materials and machinery. California state and local government programs and incentives are necessary to offset

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<sup>1</sup> 2018-2019 Investment Plan Update for the Alternative and Renewable Fuel and Vehicle Technology Program, CEC-600-2017-010-SD-REV2, California Energy Commission, April 2018, available at [http://docketpublic.energy.ca.gov/PublicDocuments/17-ALT-01/TN223279\\_20180425T130339\\_20182019\\_Investment\\_Plan\\_Update\\_for\\_the\\_Alternative\\_and\\_Renewab.pdf](http://docketpublic.energy.ca.gov/PublicDocuments/17-ALT-01/TN223279_20180425T130339_20182019_Investment_Plan_Update_for_the_Alternative_and_Renewab.pdf).

<sup>2</sup> Governor's Executive Order B-48-18, available at <https://www.gov.ca.gov/2018/01/26/governor-brown-takes-action-to-increase-zero-emission-vehicles-fund-new-climate-investments/>.

<sup>3</sup> <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=15-MISC-04>.

<sup>4</sup> Benchmarks of Global Clean Energy Manufacturing, National Renewable Energy Laboratory, Clean Energy Manufacturing Analysis Center (CEMAC), NREL/TP-6A50-65619, January 2017, available at <http://www.manufacturingcleanenergy.org/benchmark/index.html>.

<sup>5</sup> Automotive Lithium-ion Cell Manufacturing: Regional Cost Structures and Supply Chain Considerations, Clean Energy Manufacturing Analysis Center (CEMAC), NREL/TP-6A20-66086, April 2016, available at <http://www.manufacturingcleanenergy.org/benchmark/index.html>.

production disadvantages experienced by California manufacturers to satisfy these key requirements.

This workshop presents an opportunity to highlight key ingredients for success, lessons learned, and challenges addressed from past ARFVTP projects. Comments will be provided by independent peer reviewers on selected ARFVTP projects. The workshop will also present key findings of the May 4, 2018 roundtable and identify next steps for future ARFVTP manufacturing and workforce training solicitation(s).<sup>6</sup> Information from this workshop will benefit existing and future projects and help the Energy Commission inform future ARFVTP investment plans and solicitations.

## 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 Energy Commission's TRANSPORTATION webpage, <http://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=15-MISC-04/>.

A full name, email 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 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 number, and email address) become part of the viewable public record. This information may become available via Google, Yahoo, and any other search engines.

You 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. 15-MISC-04  
1516 Ninth Street  
Sacramento, CA 95814-5512

Or e-mailing them to: [DOCKET@energy.ca.gov](mailto:DOCKET@energy.ca.gov) and indicating the proceeding title, Fuels and Transportation Technology Merit Review: Manufacturing and Workforce Development.

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<sup>6</sup> <http://www.energy.ca.gov/altfuels/2017-ALT-01/documents/>

## Public Adviser and Other Commission Contacts

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission proceedings. For information on how to participate in this forum, please contact the Public Adviser, Alana Mathews, at [PublicAdvisor@energy.ca.gov](mailto:PublicAdvisor@energy.ca.gov) or (916) 654-4489 or toll free at (800) 822-6228.

If you have a disability and require assistance to participate, please contact Poneh Jones at [poneh.jones@energy.ca.gov](mailto: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](mailto:mediaoffice@energy.ca.gov) or (916) 654-4989. If you have questions on the subject matter of this meeting, please contact Tim Olson at [tim.olson@energy.ca.gov](mailto:tim.olson@energy.ca.gov) or (916) 654-4528.

## Remote Attendance

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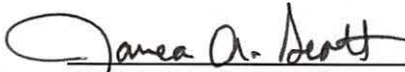
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## Availability of Documents

Documents and presentations for this meeting will be available online at <http://www.energy.ca.gov/altfuels/2015-MISC-04/>.

June 28, 2018



JANE A. SCOTT

Lead Commissioner for Transportation

### Mail Lists:

Alternative fuels listserv

Fuels and Transportation Technology Merit Review listserv

Integrated Energy Policy Report listserv

Transportation listserv

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