

DOCKETED

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California Energy Commission

Implementation Strategies for Production of Renewable Hydrogen in California

Fuels & Transportation Division
California Energy Commission

Art Rosenfeld Hearing Room, CEC
January 30, 2017



Introduction

- Welcome
- Housekeeping/Logistics
 - Facilities
 - 2nd Floor Snack Shop
 - In case of emergency



Workshop Agenda

Welcome and Introductions

9:00 am

Matthew Ong, Air Pollution Specialist, California Energy Commission

Opening Remarks

Gia Brazil Vacin, ZEV Infrastructure Project Manager, GO-Biz

Renewable Hydrogen Roadmap

Brian Goldstein, Executive Director, Energy Independence Now

Kiran Srivastava, Program Director, Energy Independence Now

Renewable Electricity Generation

Emily Chisholm, Renewable Energy Division, California Energy Commission

ARFVTP Biogas Production and Hydrogen Refueling Infrastructure Projects **10:00 am**

Jean Baronas, Hydrogen Unit Supervisor, California Energy Commission

Elizabeth John, Biofuels Unit Supervisor, California Energy Commission



Workshop Agenda

Break	10:20 am
Biogas and Syngas Production Facilities Steve Kaffka, Director, California Biomass Collaborative Matt Hart, Director of Business Development, West Biofuels	10:30 am
Renewable Resources and Power-To-Gas Ron Kent, Advanced Technologies Development Manager, SoCalGas Marino Monardi, Corporate Strategy, PG&E Corporation Jack Brouwer, Associate Director, Advanced Power & Energy Program, UC Irvine	11:00 am
Lunch	12:00 pm



Workshop Agenda cont.

Renewable Hydrogen Production and Distribution	1:15 pm
Pere Margalef, Director of Advanced Technology Business Development, FuelCell Energy Jonathan Palacios-Avila, CEO, StratosFuel Steve Jones, Managing Director, ITM Power Mikael Sloth, Vice President of Business Development, Nel Hydrogen	
Break	2:30 pm
Renewable Hydrogen Production and Distribution (cont.)	2:40 pm
Prabhu Rao, CEO, McPhy Energy NA Tim Brown, Chief Operations Officer and Principal, FirstElement Fuel	
Public Comment, Review of Public Comments Received	4:00 pm
Adjourn Workshop	5:00 pm



Commitment to Diversity

The Energy Commission adopted a resolution on April 8, 2015, to firmly commit to:

- Increase participation of women, minority, disabled veteran and LGBT business enterprises in program funding opportunities.
- Increase outreach and participation by disadvantaged communities.
- Increase diversity in participation at Energy Commission proceedings.
- Increase diversity in employment and promotional opportunities.



Commitment to Diversity

Fairness – Increase funding accessibility to all Californians.

Inclusion – Small businesses make up a significant portion of the U.S. economy.

Job Creation – Projects can create jobs for residents of the underserved communities.

Diversity of Ideas – Great ideas occur in a variety of areas.

Diversity in Communities' Needs – Needs vary widely from one area to the next (air quality, socioeconomic, etc.).




California Energy Commission

Diversity Survey

<https://www.surveymonkey.com/r/CECDiversity-01-30-2017>

Pre-Solicitation Workshop on Implementation Strategies for Production of Renewable Hydrogen in California
January 30, 2017

 **California Energy Commission**
Workshop Participation Survey

The Energy Commission is committed to ensuring participation in its programs reflect the rich and diverse characteristics of California and its people. We are currently collecting voluntary information about the attendance of this workshop. The information supplied will be used for public reporting purposes to display anonymous overall attendance of diverse groups.

Name: Company:

Does your company identify as any of the following: Disabled Veteran Business Enterprise, Small Business, Women-owned business, Minority-owned business, or LGBT-owned business? (Definitions are located on the back of this page.)

Yes
 No

If Yes, please check all that apply:	Where is your company located?
<input type="checkbox"/> Disabled Veteran Business Enterprise	<input type="checkbox"/> Northern California
<input type="checkbox"/> Small Business	<input type="checkbox"/> Central California
<input type="checkbox"/> Women-Owned	<input type="checkbox"/> Southern California
<input type="checkbox"/> Minority-Owned	
<input type="checkbox"/> Lesbian, Gay, Bisexual, Transgender-Owned	

How did you hear about this workshop?

For more information or to ask a question, contact us: PublicAffairs@ceec.ca.gov



Public Comment

- Accepting oral comments during this workshop.
- Please submit written comments to the Energy Commission using the e-commenting feature by accessing the Commission's TRANSPORTATION webpage, <http://www.energy.ca.gov/altfuels/2017-HYD-01/> by August 30, 2017.
- Submit email comments to: docket@energy.ca.gov and reference Docket No. 17-HYD-01 in subject line by August 30, 2017.



Workshop Objectives

- Discuss the current inventory and future demand for renewable hydrogen.
- Investigate biogas and renewable electricity projects that are candidates for renewable hydrogen generation.
- Estimate the quantity of renewable hydrogen needed to meet the demand and consider metrics to optimize the placement and capacity of a renewable hydrogen generation facility, along with distribution of output from the facility.
- Evaluate existing and future options for generating and distributing renewable hydrogen.