



Dear CHBC,

WOW, there's an array of activities and news waiting for you in this edition of the CHBC News! Make sure to look closely at the many ways you can engage with the CHBC in California and beyond!

Best,

Emanuel

CHBC All Hands Call May 6, 2-3 PM PT

The next CHBC All Hands Call will take place on Wednesday, May 6, at 2 PM PT.

CHBC members are invited to participate in the All Hands Call, which provides updates on CHBC activities, legislative and industry developments, and upcoming events by CHBC staff and directors.

Call-in Instructions:

Date: Wednesday, 05/06/2015 @ 2PM PT

**Phone Number: 857-232-0155
Access Code: 999273**

Mark your calendar. We hope you can attend!

LMU - CHBC Business Exchange Meeting May 27

Loyola Marymount University and the California Hydrogen Business Council are hosting the "Hydrogen & Fuel Cell Business Exchange" on May 27 from 5:30 PM - 8:30 PM.



Several speakers from the hydrogen and fuel cell industry will brief attendees on the progress the technology has made in several markets, including the transportation, stationary and backup power, and goods movement sectors, along with how this zero emission technology is helping communities and businesses around the country meet their renewable and emission requirements as well as help their bottom line.

Please share this announcement with your contacts in the business contacts in the Los Angeles area.

Registration will be made available next week at cba.lmu.edu/fuelcell (Site not live yet). [Details here >>](#)

CHBC Summer Summit Dates Set



Mark your calendar for the CHBC Summer Summit July 29/30 at the Energy Resource Center in Downey, CA.

This 2015 CHBC Summer Summit will focus on two comprehensive and interlocking areas that are important to California and beyond:

1. **Renewable Pathways to Hydrogen - July 29**
2. **Hydrogen for Energy Storage and Grid Services - July 30**

1. This dedicated Renewable Pathways to Hydrogen Workshop will bring experts together to consider the economics and the market opportunities, and identify important projects whose development have the potential to "move the needle" for renewable hydrogen.

Stakeholders will identify the technical and market challenges, planning needs and project opportunities for testing the technical and market feasibility of hydrogen production from renewable energy resources, including biogas, solar and wind. The goal is to provide data-driven CHBC messages, a robust set of solutions, possible demonstrations and the identification of potential policy changes to accelerate the development of affordable renewable hydrogen production facilities.

2. This dedicated Hydrogen Energy Storage and Grid Services Workshop will create the economic understanding of the roles that HES and power to gas (P2G) can play in the provision of grid services. The workshop will develop the details of how hydrogen technology solutions should play at the industry energy storage table. This will be done through review of the CHBC white paper and use cases, and development of a CHBC Fact Sheet on HES and grid services. The workshop will identify potential projects to meet DOE, CEC, PUC and other stakeholder needs.

Stay tuned for more information. [Details with be provided on CHBC's Summit website in the next weeks >>](#).

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National Fuel Cell Symposium 2015 "The Future is Here"

Save the Date
May 7, 2015

Byron Sher Auditorium
CAL/EPA Headquarters Building
Sacramento, California

ACT Expo 2015



May 4 - 7, 2015

Kay Bailey Hutchison Convention Center
Dallas, TX

LMU - CHBC Business Exchange

May 27, 2015

Governor Brown Issues Executive Order to Reduce GHG by 40% by 2030.

Last Wednesday, April 29, Governor Brown issued an Executive Order establishing an intermediate Greenhouse Gas reduction target of 40% to 1990 levels by 2030. This goal supports previously announced goals of the GHG reduction to 1990 levels in 2020 and by 80% of 1990 levels by 2050.

According to a study by the consulting firm Energy and Environmental Economics, and the Lawrence Berkeley National Laboratory, to cut emissions 26 percent to 38 percent by 2030, California would have to double the amount of energy efficiency in buildings and industry; ensure that 50 percent to 60 percent of electricity was from renewal sources, such as wind; and oversee a sharp increase in the number of hybrid and zero-emission cars. [See this article in the NYTimes >>](#)

This goal continues California's commitment to emission reductions, zero emission transportation and renewable integration, and clearly provides great promise for hydrogen and fuel cell technology in all energy sectors.

Next E&O Committee Call Tuesday, May 5, 11 AM PT

The CHBC Education and Outreach Committee will gather around the phone next Tuesday at 11 AM PT. If you're looking to join this Committee to help develop Education and Outreach strategy and materials, and shape CHBC events, please send an email to Committee Chair Bob Desautels (bobdesautels18@gmail.com) and Emanuel Wagner (ewagner@californiahydrogen.org).

CHBC Briefing of CAISO on Hydrogen and Fuel Cell Technology

The CHBC has been invited to present to the California ISO on hydrogen and fuel cell technology next week Tuesday. The ISO has developed an [Energy Storage roadmap](#), and the HES Committee Chair and Co-Chairs will use this opportunity to enable ISO staff to better understand and incorporate our technologies in their thinking. Look for a summary in the next newsletter.

CHBC Comments to ARB in Review of the ARB Staff Sustainable Freight Strategy

The Air Resource Board held a Board meeting on April 23 to receive staff recommendations for a Sustainable Freight Strategy, and public comments. With a CHBC request to members for potential CHBC comments to the Board, Jeff Serfass interviewed several CHBC members and stakeholders with interest in clean ports, clean freight and goods movement, to provide context and substance for the comments.

The following presents the oral comments provided to the ARB Board. Staff will ask the CHBC Transportation Strategic Action Group and the CHBC Executive Committee to review these comments and provide edits, additions and expanded comments which can be submitted in writing. Because only three minutes were allowed for each speaker, Mary Nichols, ARB Chairperson, asserted that all written comments would be read by the Board. [Read CHBC's comments >>](#)

Summary of Super Bowl 50 Call

The CHBC hosted a call with the Bay Area Air Quality Management District for 16+ CHCB members on Friday, April 24 to discuss opportunities for hydrogen and fuel cell providers to provide and showcase fuel cell technology.

The local activities for Super Bowl 50 are prepared by a non-profit host organization, the "Coordinating Committee" which is concerned about sustainability and legacy elements of the Super Bowl. The Coordinating Committee is working with BAAQMD seeking to make this the greenest and the most participatory Super Bowl of all times by developing a 25 stop tour, which would start at the beginning of Football season and by providing clean and renewable energy to the event.

The Committee is looking for transportation equipment and power generation systems at four events and the big event.

From the array of activities, the opportunities for members to provide technology could be:

- Around the fan village at Market Street in San Francisco to power the site and equipment
- Around the week before the Super Bowl by providing distributed generation systems
- To power the event itself, like media operations and trucks, lights, etc.
- To provide public and/or individual transportation during the tour or during the event

Companies that would like to offer their equipment and services should outline their proposed support activities to Damian Breen, Deputy Air Pollution Control Officer, Strategic Incentives Division, Bay Area Air Quality Management District - dbreen@baaqmd.gov, (415) 749-5041.

SoCalGas Announces Two Power To Gas Projects

CHBC members Southern California Gas Company, NREL, National Fuel Cell Research Center and Proton OnSite are bringing sci-fi innovation to life to launch demonstration projects to create and test a carbon-free, power-to-gas system for the first time ever in the U.S.

The technology converts electricity into gaseous energy and could provide North America with a large-scale, cost-effective solution for storing excess energy produced from renewable sources. [Read more >>](#)

Loyola Marymount University,
Los Angeles, CA
[See details >>](#)

Rethink Methane



Symposium

June 9-10, 2015
Sacramento, CA
[Read more >>](#)

Realizing the Potential of Grid-Scale Energy Storage



Storage

June 16-18, 2015
Los Angeles, CA
[Read more >>](#)

CHBC Summer Summit



July 29-30, 2015
Downey, CA
(Los Angeles area)
[Read more >>](#)

California Hydrogen & Fuel Cell Summit 2015

Sept. 30 - Oct. 1, 2015
California Environmental
Protection Agency Sacramento,
CA

Mark you calendar for the 3rd
installment of the CHBC's
California Hydrogen and Fuel
Cell Summit.

Welcome New Silver CHBC Member: SMUD

 **SMUD**TM The Sacramento Municipal Utility District (SMUD) is the nation's sixth-largest community-owned electric service provider, and has been providing low-cost, reliable electricity for more than 65 years to Sacramento County (and small adjoining portions of Placer and Yolo Counties). SMUD is a recognized industry leader and award winner for its innovative energy efficiency programs, renewable power technologies, and for its sustainable solutions for a healthier environment. SMUD is the first large California utility to receive more than 20 percent of its energy from renewable resources.
www.smud.org

Thank you to our Platinum Members for their generous support!



Let's
Go
Places

Also many thanks to our Gold Members!

