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1. Sept. 12-16: Sequential Meeting CHBC and CAPCOA's Future is Green Expo & Conference

Friday, September 12, California Hydrogen Business Council will present a day-long General Conference in Diamond Bar hosted by South Coast Air Quality Management District (AQMD). Highlights include presentations by Jon Slingerup, President/CEO, ClearEdge Power, and new author Suzanne Klein, JPL. Following our meeting, CHBC will be a support sponsor of The Future is Green Conference and Expo in Long Beach, presented by the California Air Pollution Control Officers Assn. Conference topics will include clean fuel technologies, green fleet vehicles and equipment, green building design and energy efficiency, renewable power generation and more. CHBC members AQMD and Bay Area Air Quality District are co-hosts of this event. The two meetings are one-day and 38 miles apart -- easy to participate in both!

[CHBC Meeting](http://www.californiahydrogen.org/page.cfm?content=17&event_ID=76): http://www.californiahydrogen.org/page.cfm?content=17&event_ID=76
[Future is Green](http://www.capcoagreen.com): <http://www.capcoagreen.com>

2. Production Begins for the New FCX Clarity Fuel Cell Vehicle

In June, Honda began production of the new FCX Clarity fuel cell vehicle, with the first vehicle (U.S. specification) coming off the line. The FCX Clarity is produced at the Honda Automobile New Model Center in Japan. A new dedicated fuel cell vehicle assembly line was established, which includes processes unique to a fuel cell vehicle such as the installation of the fuel cell stack and hydrogen tank. The fuel cell stack is also produced in Japan at Honda Engineering Co., Ltd. In manufacturing fuel cells, exclusively designed automated equipment was introduced to ensure quality of the highest precision while enabling mass production of cells, with several hundred cells required for each fuel cell stack. Through these initiatives, The FCX Clarity was designed from scratch as a dedicated fuel cell vehicle.
[Honda FCX](http://world.honda.com/news/2008/4080616New-FCX-Clarity/): <http://world.honda.com/news/2008/4080616New-FCX-Clarity/>

3. GM Announces California Public Policy Partners in Chevrolet's Project Driveway

General Motors recently handed the keys to four Chevrolet Equinox Fuel Cell vehicles to a group of key government partners who are participating in Chevrolet's Project Driveway. More than 100 electric vehicles, powered by hydrogen fuel cells, are being placed in the hands of drivers in California, New York and Washington, DC. Selected drivers include general public, media, influencers, celebrities, business and public policy partners. Almost 70 of the vehicles are now on the road in the U.S. and further deployments are planned in Europe and Asia later this year. Joining Chevy in Project Driveway are the University of California - Irvine; the California Air Resources Board; the California Fuel Cell Partnership; and the South Coast Air Quality Management District in Southern California.
[Project Driveway](http://www.autospectator.com/cars/general-motors-corporate/0040776-gm-announces-california-public-policy-partners-chevrolet-039-s-proj): <http://www.autospectator.com/cars/general-motors-corporate/0040776-gm-announces-california-public-policy-partners-chevrolet-039-s-proj>

4. Toyota Develops a New Fuel Cell Hybrid

Toyota has developed a new fuel cell hybrid, a green car powered by hydrogen and electricity, that can travel more than twice the distance of its predecessor model without filling up, the automaker said recently. The improved model's maximum cruising range is 516 miles (830 kilometers) compared with 205 miles (330 kilometers) for Toyota's previous fuel cell model, the maker of the Camry sedan and Lexus luxury cars said in a statement. The FCHV-adv model, which received Japanese government approval Tuesday, will be available for leasing in Japan later this year, Toyota Motor Corp. spokeswoman Kayo Doi said. Pricing and other details weren't available, and overseas plans were still undecided, she said.

[Toyota](http://www.msnbc.msn.com/id/25004758/): <http://www.msnbc.msn.com/id/25004758/>

5. Space Shuttle Mission - Drive BMW Instead of Fly

The Space Shuttle crew recently got a taste of the future of mobility at BMW in Munich. The astronauts, who normally head into space propelled by hydrogen, adopted the role of earthbound passengers to experience the BMW Hydrogen 7 vehicle. NASA has been using the American fleet of these vehicles for test purposes at Cape Canaveral since autumn 2007. Commander Stephen Frick said, "What I find most striking is that a car running on hydrogen performs just as well as a petrol-driven model." Dr. Draeger, member of the board of management of BMW AG, added, "Only in concert with partners from society, industry and politics will we be able to establish hydrogen as the fuel of the future. This is a marathon, not a sprint."

[BMW](http://www.fuelcellsworks.com/Supppage8889.html): <http://www.fuelcellsworks.com/Supppage8889.html>

6. VW's Tiguan HyMotion Fuel-Cell Concept Makes its U.S. Debut

VW recently brought its Tiguan HyMotion Fuel Cell concept stateside, marking the revolutionary vehicle's North American debut. Based on a well-received 2009 Tiguan CUV, VW's HyMotion concept features a fuel cell engine system capable of 107 hp, assisted by an

electric motor to create a total output of 134 hp. Power for the electric unit comes from a lithium ion battery pack with a maximum output of 22kW, recharged via the fuel cell or through regenerative braking. With its 700 bar tank and lithium ion battery pack located beneath the rear seats and cargo floor, the Tiguan CUV can hold up to 3.2 kilograms of hydrogen without sacrificing any interior room, and the entire system operates in near silence.

[VW](http://wot.motortrend.com/6255935/green/vws-tiguan-hymotion-fuel-cell-concept-makes-its-us-debut/index.html): <http://wot.motortrend.com/6255935/green/vws-tiguan-hymotion-fuel-cell-concept-makes-its-us-debut/index.html>

7. Mazda Premacy Hydrogen RE Hybrid To Begin Testing on Japan's Roads

Mazda Motor, Ford's Japanese affiliate, said it will begin testing the latest version of its Premacy Hydrogen RE Hybrid crossover vehicle on public roads in Japan, with the aim of leasing the vehicle before next April. Mazda said it has won permission from Japan's Ministry of Land Infrastructure and Transport to begin public tests of the vehicle, which features a new hybrid system with more power and a much longer range. The dual-fuel system is designed to run on either hydrogen or gasoline. The five-passenger Premacy, sold in the U.S. as the Mazda5, features a 148-HP rotary engine and a lithium-ion battery pack. When running on hydrogen, its range is 124 miles. Mazda said it will display and demonstrate the Premacy Hydrogen RE and other hydrogen rotary vehicles in July at the G8 Summit in Hokkaido.

[Mazda](http://www.edmunds.com/insideline/do/News/articleId=127572): <http://www.edmunds.com/insideline/do/News/articleId=127572>

8. Suzuki Fuel Cell Car Certified by Japanese Government

Suzuki Motor Corp announced it has developed the "SX4-FCV" fuel-cell vehicle based on its "SX4" compact car and it has been certified by Japan's Minister of Land, Infrastructure, Transport and Tourism. The SX4-FCV features a 70MPa high-pressure hydrogen tank, a downsized light capacitor and a fuel cell module manufactured by General Motors Corp. Suzuki will advance development toward a commercial application by conducting public road tests and collecting data. The FCV is slated to be on display at the "Environmental Showcase" during the Hokkaido Toyako Summit. The fuel cell module's output is 80kW, and the motor's output is 68kW. Maximum speed is 150km/h. Its cruising range extends to 250km per hydrogen charge. The SX4-FCV is Suzuki's first FCV based on a standard engine car.

[Suzuki](http://techon.nikkeibp.co.jp/english/NEWS_EN/20080625/153823/): http://techon.nikkeibp.co.jp/english/NEWS_EN/20080625/153823/

9. Stars Test the Waters with Hydrogen Cars

Oscar-winning writer and director Paul Haggis owns four Toyota Priuses and is high on the waiting list to buy a \$100,000 Tesla electric roadster. But when he heard about the new Honda FCX Clarity, he was desperate to drive it. "I want one. I want one," he said of the Clarity, later dispatching his agent to hunt for one. A step ahead of Haggis was Joely Fisher, star of Fox's " 'Til Death" TV show. She arranged for BMW to lend her a sleek metallic blue Hydrogen 7 Series -- one of just 20 such experimental sedans in the country. Fancy cars have long been integral to the one-upmanship among L.A.'s glitterati. But instead of Bentleys and Bugattis, Hollywood's must-have vehicles of the moment are green. And nothing conveys extreme exclusivity and earth-friendliness like a hydrogen car.

[H2 Cars](http://www.latimes.com/business/la-fi-greencar15-2008jun15,1,3540097.story): <http://www.latimes.com/business/la-fi-greencar15-2008jun15,1,3540097.story>

10. Petrol Prices Pinching Post Office

Every time the price of gasoline goes up a penny, it costs the U.S. Postal Service \$8 million. "We are definitely feeling the pressure," Deputy Postmaster General Patrick R. Donahoe told The Associated Press. Transportation cost the post office \$6.5 billion in 2007, \$500 million more than the year before. The post office operates the largest civilian fleet of vehicles in

the country -- 215,000 motor vehicles -- and also faces rising costs for fuel from its contract carriers including truckers and airlines. Hydrogen fueled vehicles are among options under consideration, he said. The agency is working with General Motors on such a vehicle, which could be tested in California where hydrogen filling stations are being established. "We think it's an opportunity if the fuel is available," Donahoe said.

[Post Office:](#)

<http://ap.google.com/article/ALeqM5jFEWNPrCu0J3xu6K07LOKDks4rjwD91AIQ6G0>

11. Prototype Hydrogen Storage Tank Maintains Extended Thermal Endurance

A cryogenic pressure vessel developed and installed in an experimental hybrid vehicle by a Lawrence Livermore National Laboratory (LLNL) research team can hold liquid hydrogen for six days without venting any of the fuel. The LLNL development has significantly increased the amount of time it takes to start releasing hydrogen during periods of long-term parking, as compared to today's liquid hydrogen tanks capable of holding hydrogen for two to four days. LH2 tanks hold super-cold liquid hydrogen at around -420 Fahrenheit. In recent testing of its prototype hydrogen tank onboard a liquid hydrogen (LH2) powered hybrid, LLNL's tank demonstrated a thermal endurance of six days and the potential for as much as 15 days, helping resolve a key challenge facing LH2 automobiles.

[LLNL:](https://publicaffairs.llnl.gov/news/news_releases/2008/NR-08-06-02.html) https://publicaffairs.llnl.gov/news/news_releases/2008/NR-08-06-02.html

12. Quantum Fuel Systems Awarded Contract for Hybrid Vehicle Powertrains

Quantum Fuel Systems Technologies Worldwide, Inc., announced it was awarded a contract by EDAG Engineering + Design AG (EDAG) to develop hybrid vehicle powertrains for the Future Steel Vehicle program sponsored by WorldAutoSteel. Under the contract, Quantum will design, analyze, and develop hybrid vehicle powertrain architectures, i.e., advanced plug-in hybrid electric vehicles and hydrogen fuel cell hybrid vehicles. Quantum will work with Advanced Lithium Power, Inc. to develop the advanced lithium-ion battery system and controls for each of the vehicle architectures. The goal of the research is to demonstrate safe, structurally efficient steel bodies for future vehicles that reduce greenhouse gas emissions over the entire life cycle.

[Quantum:](#)

http://www.qttw.com/files/qttw_press/080610%20QT%20Awarded%20Contract%20to%20Develop%20AHV%20Powertrains%20for%20IISI%20with%20EDAG.pdf

13. Clean Energy, General Motors Working to Expand Hydrogen Fueling Infrastructure

General Motors Corp. and Clean Energy Fuels Corp. announced that Clean Energy will open a hydrogen fueling station in Los Angeles with support from GM. The two firms are exploring further opportunities to expand hydrogen infrastructure. As the first step, a hydrogen fueling station will be developed and located at Clean Energy's compressed natural gas (CNG) facility near Los Angeles International Airport (LAX). The hydrogen station is expected to open in late summer or early fall, and will be used by drivers taking part in Chevrolet's Project Driveway. GM and Clean Energy are discussing potential opportunities to expand this first station into a network of hydrogen fueling stations by leveraging Clean Energy's natural gas fueling expertise and the real-world customer experience gained by fueling more than 14,000 vehicles daily at over 170 CNG stations across North America.

[GM - CE:](#) <http://www.cleanenergyfuels.com/0108/6-11-08.html>

14. Shell Station in LA Offers Hydrogen

Shell Hydrogen recently unveiled California's first retail station to sell both gasoline and hydrogen, and only the second in the country after one in Washington, also operated by Shell. An existing station on Santa Monica Blvd. near Federal Avenue in West Los Angeles

was beefed up to make hydrogen fuel more mainstream and to accustom the typical gas-addicted customer to a more eco-friendly fuel. With that in mind, the station features a large information center -- which Shell executives say will bring in visiting school kids, among others -- next to an expanded food mart. "We think it's very important in Shell to show we can supply hydrogen to the public environmentally, safely, reliably, regularly and all the time," said Duncan Macleod, vice president of Shell Hydrogen, a unit of energy giant Royal Dutch Shell.

[Shell Hydrogen](http://www.latimes.com/business/la-fi-hydrogen25-2008jun25,0,1637234.story): <http://www.latimes.com/business/la-fi-hydrogen25-2008jun25,0,1637234.story>

15. Atlantic Hydrogen Removing Carbon from Natural Gas

Atlantic Hydrogen Inc., New Brunswick, Canada, has secured \$10 million to run a three-year demonstration project for a technology capable of removing carbon from natural gas. The firm, already garnering interest from potential customers in Canada, Britain and Italy, said recently its in-house demonstration could lead to a commercial pilot project within 18 months. The company's CarbonSaver technology can remove about seven per cent of carbon from natural gas before combustion, a unique feature that is partially responsible for its increasing international attention. The technology bombards gas with an electrical charge, forcing the carbon and hydrogen molecules to split. While the carbon is removed, the hydrogen is infused back into the gas, producing a fuel capable of reducing nitrogen oxide emissions by up to 90 per cent. The carbon that is extracted can be sold as a component in rubber to international markets.

[Atlantic Hydrogen](http://nbbusinessjournal.canadaeast.com/journal/article/335971): <http://nbbusinessjournal.canadaeast.com/journal/article/335971>

16. Ballard to Supply Fuel Cells for Clean BC Hydro Supplemental PowerSolution in Bella Coola

Ballard Power Systems announced it is partnering with Dantherm Power A/S, a leading global manufacturer of fuel cell systems to provide BC Hydro, through its wholly owned subsidiary Powertech Labs Inc., with a 100 kW supplemental power product for deployment in the community of Bella Coola, British Columbia. Ballard is supplying 60 units of its Mark1020 ACS(TM) fuel cell product, each sized to deliver 2 kW's of gross power, together with technical support services. The 100 kW supplemental power unit is a key part of BC Hydro's Hydrogen-Assisted Renewable Power (HARP) initiative. The product will help reduce fuel consumption at the Ah-Sin-Heek diesel power generation facility, by increasing the utilization of existing renewable power at BC Hydro's Clayton Falls hydroelectric generation facility.

[Ballard](http://phx.corporate-ir.net/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1169612&highlight=): <http://phx.corporate-ir.net/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1169612&highlight=>

17. Air Products' West Gulf Coast Hydrogen Pipeline Network to Supply Total's Deep Conversion Expansion Project in Texas

Air Products and Chemicals announced the signing of an agreement for long-term hydrogen supply with Total Petrochemicals USA, Inc. to support Total's new deep conversion expansion project at its Port Arthur, TX refinery. Air Products will supply Total with over 60 million standard cubic feet per day of hydrogen from its extensive West Gulf Coast hydrogen pipeline network beginning in 2010. Total's Port Arthur refinery will use the hydrogen to process alternative crudes and expand its output of cleaner burning transportation fuels. Air Products' West Gulf Coast pipeline network is part of its overall Gulf Coast pipeline network, which extends from the Houston Ship Channel in Texas to Lake Charles, La., and from Baton Rouge to Norco, La., and east of New Orleans.

[APCI](http://news.moneycentral.msn.com/ticker/article.aspx?symbol=US:APD&feed=PR&date=20):

<http://news.moneycentral.msn.com/ticker/article.aspx?symbol=US:APD&feed=PR&date=20>

18. QuantumSphere, Inc. Acquires Energetics, Inc.

QuantumSphere, Inc., recently announced the acquisition of West Coast based Energetics, Inc., to advance research and development of lithium ion batteries, fuel cells, hydrogen production, and bio fuel applications. Founded in 2001, Energetics, Inc. has focused on advanced energy technologies, primarily in the areas of next-generation lithium ion batteries, fuel cells for portable power, hydrogen and syngas production from biomass, and hydrogen purification and reforming technologies. The company's founder and chief executive, Subramanian Iyer, will serve as Principal Technologist for QuantumSphere and will leverage more than 30 years of experience in technology advances for metallurgy, batteries, fuel cells and renewable energy technologies.

[QuantumSphere](http://www.qsinano.com/news/releases/2008_06_24.php): http://www.qsinano.com/news/releases/2008_06_24.php

19. As Energy Bills Soar, Japanese Test Fuel of Future

As world oil prices skyrocket, thousands of households in energy-poor Japan are taking part in an ambitious experiment to use fuel cells to light and heat their homes. Since the prime minister's official residence became the first house in the world to be equipped with a domestic fuel cell in 2005, about 3,000 households have signed up to have the grey boxes installed outside their homes. The project aims to thrust Japan to the forefront of a hydrogen society that has kicked its addiction to fossil fuels and produces affordable energy while spewing out far less of the greenhouse gas that is blamed for global warming. As well as producing electricity, the fuel cells also ensure a steady supply of hot water for households. With no motor inside, the machines -- about the size of a small cupboard -- are also silent.

[FC Homes](http://afp.google.com/article/ALeqM5irtvz-PSWsRBd16dWzIQnYzsRR4Q): <http://afp.google.com/article/ALeqM5irtvz-PSWsRBd16dWzIQnYzsRR4Q>

20. Inside the Solar-Hydrogen House: No More Power Bills--Ever

Mike Strizki has not paid an electric, oil or gas bill, nor has he spent a nickel to fill up his Mercury Sable in nearly two years. Instead, the 51-year-old civil engineer makes all the fuel he needs using a system he built in the capacious garage of his home, which employs photovoltaic (PV) panels to turn sunlight into electricity that is harnessed in turn to extract hydrogen from tap water. "I'm a self-sufficiency guy," Strizki says. A civil engineer, he has been interested in alternative energy sources since 1997 when he began working on vehicles fueled by alternative means during his tenure with the New Jersey Department of Transportation. Strizki's two-story colonial on an 11-acre plot 12 miles north of Trenton is the nation's first private hydrogen-powered house.

[House](http://www.sciam.com/article.cfm?id=hydrogen-house): <http://www.sciam.com/article.cfm?id=hydrogen-house>

21. UTC Power Wins 4.8 MW World Trade Center Fuel Cell Bid

UTC Power was selected by the New York Power Authority (NYPA) to supply \$10.6 million worth of fuel cell equipment for new World Trade Center towers in New York. According to the agreement with the NYPA, UTC Power is to supply four 1.2 MW fuel cell systems, making it one of the largest installations in the world. The fuel cells are to provide an on-site supplement to the planned wind power-purchase agreements the Port Authority finalized in late 2006, said the NYPA. The first of the fuel cells is to be delivered to the Freedom Tower in January 2009 and under the agreement is to be owned and operated by the NYPA, the owner of the building. The tower is to be developed by the port authorities in New York and New Jersey, according to the NYPA.

[UTC](http://media.cleantech.com/2972/utc-power-wins-4-8mw-fuel-cell-bid): <http://media.cleantech.com/2972/utc-power-wins-4-8mw-fuel-cell-bid>

22. From Kites to Hydrogen-Fueled Flight

The sustained high world price of oil has the potential to introduce alternate fuels into the commercial aviation industry. Commercial aviation turbine engines have successfully operated on hydrogen on the test bed as well as in flight. Only minor modifications need be done to the existing technology in order for hydrogen to be used as a commercial aviation fuel. Research has already been undertaken on the possibility of ultra-high altitude supersonic flight powered by hydrogen. The market niche for such technology would likely be north-south flights such as New York - Buenos Aires that cross over very few time zones. Hydrogen-powered commercial flight would likely develop on a regional basis involving short-haul flights at locations where an abundance of electric power could be generated at relatively low costs.

[Flight](http://www.evworld.com/article.cfm?storyid=1467): <http://www.evworld.com/article.cfm?storyid=1467>

23. Helicopters with Fuel Cells

In the future, an unmanned helicopter will search for people trapped in fallen buildings or investigate contaminated terrain. The mini-helicopter will be powered by a very light fuel cell that weighs only 30 grams and has an output of 12 watts. The old saying that "there is strength in numbers" also applies to fuel cells. To deliver a high enough power output, a number of cells have to be connected in series. Manufacturers normally stack the fuel cells, which makes the stack quite heavy. Together with colleagues at the Technical University of Berlin, researchers from the Fraunhofer Institute for Reliability and Microintegration IZM in Berlin have developed a fuel cell that weighs only 30 grams and has an output of 12 watts. The fuel cell is light enough to power a twenty-centimeter helicopter.

[Helicopters](http://www.nanowerk.com/news/newsid=5926.php): <http://www.nanowerk.com/news/newsid=5926.php>

24. Canal Boat Charts Way to Greener Ships

The narrowboat Ross Barlow seems an unlikely weapon in the battle against global warming. Yet according to Rex Harris, the scientist who converted the pioneering zero-emissions canal boat, it could offer a way to green the world's shipping industry. The Ross Barlow runs entirely on hydrogen, so its only direct emission is water. The hydrogen is converted to electricity in a fuel cell, which is used to either power the boat's electric motor or charge a back-up battery. Although every leading car manufacturer has produced a hydrogen vehicle, the Ross Barlow breaks new ground in the way the hydrogen is stored. There is no high-pressure gas or liquid on board - a nagging safety doubt over most existing hydrogen vehicles. Instead, the boat holds its hydrogen in a metal powder. A plaque on the side of the boat boasts it is the first of its kind in the world.

[Boats](#):

<http://www.guardian.co.uk/environment/2008/jun/16/travelandtransport.carbonemissions>

25. Send Us Your News; Board of Directors

We welcome important news from our members for inclusion on our website and in next month's report. Thank you for helping build a great organization. Our board: President - Henry Wedaa; Vice President - Paul Scott, ScD; Secretary - Josh Mauzey; Treasurer - John Williams; Managing Director - Catherine Rips; Membership Chairman - Mark Abramowitz; Program Chairman - Henry Wedaa; Director at Large - Allan Bedwell; Director at Large - Fred Silver; Director at Large - Larry Watkins; Ex-officio Government Liaison - Analisa Bevan. To send news or contact the board, please email: info@californiahydrogen.org.

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