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**New Senate Fuel Cell and Hydrogen Caucus Launched.**
A new Senate Fuel Cell and Hydrogen Caucus was launched with four co-chairs - Senators Blumenthal (D-CT), Coons (D-DE), Hoeven (R-ND) and Graham (R-SC), and four additional inaugural members - Senators Stabenow (D-MI), Akaka (D-HI), Tester (D-MT), and Wyden (D-OR).


**TRANSPORTATION APPLICATIONS**

**Black Cabs Take Home the Green Medal.**
Five hydrogen fuel cell black cabs developed by Intelligent Energy and partners are transporting VIPs and dignitaries during the 2012 Summer Olympics in London, England. This begins a two-year trial project supported by HyTEC (Hydrogen Transport for European Cities). Air Products recently was awarded funding from the Technology Strategy Board (TSB) for a hydrogen fueling station at Heathrow Airport as well as for an additional planned site in central London to fuel the cabs. You can follow the cabs and driver experience at the Cleaner Air for London blog - [http://hydrogentaxi.tumblr.com/](http://hydrogentaxi.tumblr.com/).

**Fuel Cell Range Extender Gives Tremendous Boost.**
ECOmove, a consortium of Danish car builders, has unveiled the QBEAK, an electric car that can travel 500 miles without refueling thanks to a fuel cell range extender that uses a bio-methanol and water mixture.


**Mercedes Purchases 72 Plug Power Fuel Cells for Alabama Forklifts.**
Mercedes-Benz U.S. International, Inc. (MBUSI) has purchased 72 Plug Power GenDrive® fuel cell units to operate a portion of the automotive plant’s lift truck fleet, its Hyster electric lift truck fleet, in Tuscaloosa, Alabama. Compact hydrogen stations provided by Air Products will be located onsite.


**Boeing Demonstrating Plane with Fuel Cell.**
Boeing is partnering with American Airlines and the Federal Aviation Administration on the ecoDemonstrator program, a 737-800 airplane that would be a flying testbed for environmentally progressive technologies. One of the technologies slated for testing on the ecoDemonstrator is a regenerative fuel cell developed in partnership with Japan’s IHI for auxiliary power.


**Get Onboard New Fuel Cell Bus Site.**
Delve into fuel cell bus history and follow its process on a new website by the International Fuel Cell Bus Collaborative that features a comprehensive database of completed, active and planned fuel cell bus demonstrations as well as lots of images, resources and fuel cell information. The site is managed by the Center for Transportation and the Environment on behalf of the FTA’s National Fuel Cell Bus Technology Development Program (NFCBP).
UTC Power Sells 14 Fuel Cells to Korea.
Pyeongtaek Energy Service of South Korea has purchased 14 UTC Power PureCell Model 400 fuel cell systems. This project will be completed in two phases with the first seven PureCell systems being installed at the new SK E&S power plant in the city of Pyeongtaek in fall of 2012. The fuel cells will also supply thermal energy to Godeok International City. Phase II of this project, the installation of the remaining seven PureCell systems at the new power plant campus in Pyeongtaek, is slated to start mid-summer 2013.

CBS to Broadcast with 2.8 MW of UTC Power Fuel Cells.
In other UTC news, CBS Studios will install six PureCell® stationary fuel cell systems totaling 2.8 megawatts (MW) of power, at two production locations in California. Three units will be installed at CBS Studio Center in Studio City and the other three will be installed at CBS Television City in Los Angeles.

Life Technologies Installing 1 MW of Bloom Units.
Life Technologies Corporation is installing a 1 MW Bloom Energy fuel cell system to power its company headquarters and manufacturing/distribution center in Carlsbad, California.

Ballard Acquires IdaTech.
Ballard Power Systems has signed of an agreement to acquire key assets from IdaTech, including IdaTech’s fuel cell product lines for backup power applications, distributor and customer relationships, as well as a license to intellectual property.

ReliOn Introduces Two New Products.
ReliOn announced its new products, the E-1000x and E-2200x to address the need for high duty cycle grid-support in a number of situations where alternative power products are used to support a less reliable electrical grid or no grid at all.

Take Horizon Camping.
Horizon Fuel Cell Technologies’ full line of portable micro-fuel cell products are now available at REI retail stores.

FuelCell Energy, Inc. was awarded a $3.8 million contract award from the U.S. Navy to develop and test a Hybrid Solid Oxide Fuel Cell (SOFC)-Battery power system for large displacement undersea vehicle propulsion. The objective of the project is to develop a refuelable power system, with high energy density, that is suitable for undertaking long duration underwater missions of unmanned submersibles. The SOFC fuel cell stack is based on the technology developed by Versa Power Systems, an SOFC developer that is partially owned by FuelCell Energy. Other team partners include the Energy Systems Division of
NASA’s Lyndon B. Johnson Space Center, Yardney Technical Products, Inc., Naval Underwater Warfare Center (NUWC), and Pacific Northwest National Laboratory (PNNL).

Ultra Electronics, AMI Delivers 45 Fuel Cells to U.S. Military.
Ultra Electronics, AMI (AMI) recently delivered 45 of its ROAMIO D245XR fuel cells for use by the U.S. military in unmanned aerial systems. The contract award for this delivery is valued at more than $2 million.

Neah Receives Order for Powerchip™.
Neah Power Systems, Inc has received an initial purchase order for one of its 25-watt Powerchip™ fuel cell from a Fortune 150, US-based defense supplier. The defense supplier is exploring the use of fuel cells for a range of applications including soldier power, remote power stations, and unmanned underwater and aerial vehicles.

L2 Aerospace and Cella Energy Partner for Hydrogen Storage Solutions.
L2 Aerospace is partnering with Cella Energy to develop plug and play hydrogen power solutions that use lightweight flexible polymer packaging that can be carried by dismounted soldiers or packaged into unmanned aerial vehicles.

FUELS/REFORMERS/STORAGE

DOE Funding Five Fueling Projects.
The U.S. Department of Energy (DOE) announced a $2.4 million investment to collect and analyze performance data for hydrogen fueling stations and advanced refueling components. The five projects - located in California, Illinois, and Connecticut - will track the performance and technical progress of innovative refueling systems at planned or existing hydrogen fueling stations to find ways to lower costs and improve operation.

DOE Awards Small Business Research and Development Grants.
DOE awarded Small Business Research and Development Grants to two hydrogen production projects from Arbsource of Tempe, Arizona, and Proton OnSite of Wallingford, Connecticut.

ITM Power Sells System to CEA Grenoble; Wins TSB Grant.
ITM Power has sold a hydrogen generation system to CEA Grenoble, France, to be used in a renewable energy storage project. The hydrogen will be produced on site and stored in a metal hydride system before being used in a fuel cell to generate renewable power on demand and to supply green hydrogen. ITM Power was also awarded £1.3 million (US$2 million) of a grant by the Technology Strategy Board, the UK Government’s innovation agency, for a project that will build and integrate a hydrogen energy storage and vehicle refueling system on the Isle of Wight to fuel a fleet of hydrogen vehicles from Hyundai, Microcab, and Riversimple. ITM’s project partners include SSE, Toshiba, IBM, Cable & Wireless Worldwide, National Physical Laboratory, Cheetah Marine, Arcola Energy, Ecoisland Community Interest Co, and the Universities of Glamorgan and Nottingham.
http://www.itm-power.com/news-item/sale-of-equipment-to-cea/
http://www.itm-power.com/news-item/technology-strategy-board-grant-award/

Cella Energy Enters Agreement with NASA.
Cella Energy’s American subsidiary entered a five-year Space Act Agreement with NASA’s Kennedy Space Center to make its micro-bead technology practical enough to be used as a fuel in most kinds of machinery, cars and perhaps even spacesuits and portable electronics. The contract runs five years and can be extended. Cella has offices in the Space Life Sciences Laboratory at Kennedy and is expected to
become an early tenant at Exploration Park, a research center now under construction at the space center.  

New Startup Raising Capital.  
Glastonbury, Connecticut startup H2Sonics LLC has raised the first $900,000 of an open-ended round of financing to develop its proprietary technology that uses sonic energy to manufacture hydrogen and aluminum oxide for use in alternative energy.  

MATERIALS/COMPONENTS/TESTING

BNL Wins R&D 100 Award.  
Brookhaven National Laboratory has won one of 100 awards from R&D Magazine for their work on platinum monolayer electrocatalysts for fuel cell cathodes.  

REPORTS/MARKET STUDIES

FCEV Final Report.  
DOE released the final report from the National Fuel Cell Electric Vehicle Learning Demonstration, a six-year technology validation project that collected data from more than 180 fuel cell electric vehicles.  

California Hydrogen Station Roadmap.  
The California Fuel Cell Partnership (CaFCP) published A California Road Map: Bringing Fuel Cell Electric Vehicles to the Golden State. The work is based on CaFCP members’ 10+ years of experience placing stations and vehicles in California, and represents the result of over a year of collaborative work between automakers, researchers and other stakeholders in California.  
http://cafcp.org/sites/files/20120720_Roadmapv%28Overview%29_0.pdf

Fuel Cells Annual Report 2012  
Pike Research has published Fuel Cells Annual Report 2012 that provides an assessment of the state of the global fuel cell market across its three major industry sectors: stationary, portable, and transportation.  

REQUESTS FOR PROPOSALS

MISCELLANEOUS

Hydrogenics Part of INGRID Project.  
Hydrogenics Corporation is one of 7 partners in the INGRID project, a major research and development and demonstration project with an overall budget of €23.9 million (US$29 million). The four-year project will design, build, deploy and operate a 39 MW energy storage facility in the Puglia region in Italy using McPhy hydrogen-based solid state storage and Hydrogenics electrolysis technology and fuel cell power systems.  

CONFERENCES

For a complete list of conferences, please go to http://www.fuelcells.org/news/conf.html.
DOE Webinar.
DOE will present a live webinar entitled "Material Characterization of Storage Vessels for Fuel Cell Forklifts" on Tuesday, August 14 from 12:00 to 1:00 p.m. EST. This webinar will focus on the results of a study conducted by Sandia National Laboratories that investigated the fatigue life of steel pressure vessels, commonly used for the transport of pressurized gases, including gaseous hydrogen. http://www1.eere.energy.gov/hydrogenandfuelcells/webinars.html

European Technical School on Hydrogen and Fuel Cells 2012 will take place September 24-28, 2012 in Crete, Greece. For more information, please visit http://www.h2fc.eu/technicalschool.

f-cell 2012.
f-cell 2012 and Battery+Storage 2012 will be held October 8-10, 2012, at the Stuttgart Trade Fair Centre in Stuttgart, Germany. To see the conference program and registration information, please go to http://www.f-cell.de/englisch/home/.

Fuel Cell Seminar.

Total Energy USA.
Total Energy USA will be held November 27-29, 2012, at the George R. Brown Convention Center in Houston, Texas. For more information, please go to http://totalenergyusa.com.

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Fuel cells generate electricity without combustion by harnessing the energy released when hydrogen and oxygen are chemically combined. Fuel Cells 2000 is an independent, nonprofit activity dedicated to the commercialization of fuel cell technologies.