Happy New Year! I hope everyone had a wonderful holiday. There is a little more room in the US Pavilion at the upcoming 7th International Hydrogen and Fuel Cell Expo (March 2-4) in Tokyo, Japan. If you represent a US company and are interested in participating, email me at jennifer@fuelcells.org to learn more about the great price I have negotiated.

To unsubscribe to this newsletter, please see the end of this message.

TRANSPORTATION APPLICATIONS


Toyota and Hino Fuel Cell Bus to Service Tokyo Airport. Toyota Motor Corporation (TMC) and Hino Motors, Ltd. will provide a FCHV-BUS, a fuel cell hybrid bus for a commercial bus route between central Tokyo and Tokyo International Airport (Haneda Airport) run by Airport Transport Service Co., Ltd. The bus will be fueled with hydrogen at Tokyo Suginami Hydrogen Station in central Tokyo and Haneda Hydrogen Station in Haneda. [http://www2.toyota.co.jp/en/news/10/12/1207_1.html](http://www2.toyota.co.jp/en/news/10/12/1207_1.html)

Ballard Secures Order for Three Fuel Cell Bus Systems. Ballard Power Systems has secured an order for three FCvelocity® fuel cell modules to power hybrid fuel cell buses in London, England. The three buses will join five existing fuel cell buses and are scheduled for deployment in revenue service in Transport for London’s (TfL) fleet. These buses will be served by a new central hydrogen refueling station, with fuel provided by Air Products. Project funding is being provided as part of the European Union’s Cleaner Hydrogen in Cities (CHIC) project. [http://phx.corporate-ir.net/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1504796&highlight=](http://phx.corporate-ir.net/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1504796&highlight=)

Fuel Cell Trucks to Work California Ports. Two plug-in electric/hydrogen fuel cell trucks will soon be working the ports of Long Beach and Los Angeles in an 18-month demonstration. Vision Motor Corporation will provide one big-rig truck and one terminal tractor. Each port has agreed to provide $212,500 from their Technology Advancement Program funds toward the cost of the $1 million project. [http://www.portoflosangeles.org/newsroom/2010_releases/news_121610_fuelcelltrucks_release(v7).pdf](http://www.portoflosangeles.org/newsroom/2010_releases/news_121610_fuelcelltrucks_release(v7).pdf)


APFCT Drives Three Fuel Cell Scooters to Conference.
Asia Pacific Fuel Cell Technologies, Ltd. (APFCT) drove three fuel cell-powered scooters 280 kilometers (km, 174 miles) to a recent fuel cell conference in Taiwan. This demonstration is in addition to a 1000 km (621 miles) road test around Taiwan performed earlier in the year. The scooters were ridden by 5 students from National Cheng Kung University and Kun-Shan University and one staff member from the Fuel Cell Demonstration and Promotion Office of the Chung-Hua Institution for Economic Research. [http://www.apfct.com/article_cat.php?act=view&no=24](http://www.apfct.com/article_cat.php?act=view&no=24)

**Horizon Fuel Cell UAS Completes Successful Test Flight.**

**Fuel Cell Systems Adds SFC Energy’s EFOY Products to Portfolio.**
Fuel Cell Systems has added SFC Energy’s EFOY fuel cell range of direct methanol fuel cells to its product portfolio, focusing on marine applications. The company is showcasing and selling fuel cells at the London Boat Show. [http://www.fuelcellsystems.co.uk/](http://www.fuelcellsystems.co.uk/)

**STATIONARY APPLICATIONS**

**Insurance Company, Office Park, to Install Bloom Energy Fuel Cells.**
Fireman’s Fund, the first carrier to widely introduce green insurance to the U.S. commercial market, plans to install six Bloom Energy Servers at its headquarters in Novato in early 2011. The fuel cells will supply 60 percent of the energy used by the Fireman’s Fund two-building campus and Fireman’s Fund said it anticipates a return on investment plus $1.5 million in the next 10 years. Additionally, an office park in Alhambra, California, is installing five Bloom units, predicted to save the property owner about $500,000 a year in electricity bills. [http://www.northbaybusinessjournal.com/28032/fireman%E2%80%99s-to-install-fuel-cells/](http://www.northbaybusinessjournal.com/28032/fireman%E2%80%99s-to-install-fuel-cells/) [http://www.latimes.com/business/la-fi-bloom-box-20101221,0,6209641.story](http://www.latimes.com/business/la-fi-bloom-box-20101221,0,6209641.story)

**Singapore Company Buys 1.25 MW of Ballard Fuel Cells.**
Ballard Power Systems has sold 1.25 megawatts (MW) of its FCgen®1300 fuel cells, along with engineering support services, to Real Time Engineering PTE Ltd. (RTE). RTE intends to produce a 1MW distributed power generator for deployment in Singapore. [http://phx.corporate-ir.net/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1509505&highlight=](http://phx.corporate-ir.net/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1509505&highlight=)

**CFCL Sells Three BlueGens to E.ON, Installs Unit at Australian Market.**

**Ceres Power Receives Safety Approval.**
Ceres Power Holdings has obtained CE safety approval for its wall-mounted fuel cell combined heat and power (CHP) product to used in field trials under the residential CHP program with British Gas. The CE certification process was conducted by Europe’s leading independent fuel cell technology and gas appliance certification specialist Kiwa Gastec, based in the Netherlands. [http://www.cerespower.com/](http://www.cerespower.com/)

**iVoice and Hydra Fuel Cell to Merge.**
iVoice Inc. has signed a non-binding Letter of Intent to merge with Hydra Fuel Cell Corporation in early 2011. Hydra Fuel Cell Corporation is developing proton exchange membrane (PEM) hydrogen fuel cell systems for residences and small commercial establishments.
PORTABLE/BACKUP POWER

UPS Systems Powers Christmas Tree with Fuel Cell.
UPS Systems powered a West Berkshire Christmas tree with a fuel cell. We love it!
http://www.upssystems.co.uk/

MICRO FUEL CELLS

MILITARY APPLICATIONS

FUELS/REFORMERS/STORAGE

More Companies Join ITM’s HOST.
Amey, RAC and Autoglass® have all signed an agreement to participate in the Hydrogen On Site Trials (HOST) of ITM Power’s transportable high pressure refueling unit (HFuel).

H2scan Launches New Hydrogen Monitor.
H2scan Corporation has launched the new explosion-proof HY-OPTIMA™ 2700 In-Line Process Hydrogen Monitor, the Company’s most robust analyzer to date. The 2700 is designed primarily for hazardous environments in the oil and gas, hydrogen production and other chemical industries.

MATERIALS/COMPONENTS/TESTING

NuVant Offers New GDLs and Electrodes to Product Portfolio.
NuVant Systems Inc. has added ELAT™ gas diffusion layers and gas diffusion electrodes to its fuel cell product portfolio that have been engineered with a carbon microporous layer. NuVant will soon offer non-platinum group metal (non-PGM) ELAT™ electrodes for alkaline fuel cells.
http://www.nwitimes.com/business/local/article_aebec91-884f-5f4e-bcd7-b494e8695976.html

Ballard Reaches MEA Milestone.
Ballard Power Systems has reached a milestone, the production of its one-millionth MEA (membrane electrode assembly), the proprietary core component of Ballard fuel cells.
http://phx.corporate-ir.net/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1509090&highlight=

REPORTS/MARKET STUDIES

REQUESTS FOR PROPOSALS

Check out the Fuel Cell RFPs blog for more opportunities.

DOE Offering $74 Million for Fuel Cell Projects.
The U.S. Department of Energy (DOE) is now accepting applications for a total of up to $74 million to support the research and development of fuel cells for stationary and transportation applications. The solicitations include up to $65 million over three years to fund continued research and development (R&D) on fuel cell components, such as catalysts and membrane electrode assemblies, with the goal of reducing costs, improving durability, and increasing the efficiency of fuel cell systems. The funding also
includes up to $9 million to conduct independent cost analyses that will assess the progress of the technology under current research initiatives and help guide future fuel cell and hydrogen storage R&D efforts.

CHP and CCHP Fuel Cell Systems.
Battelle Memorial Institute, Pacific Northwest Division (Battelle), operator of the Pacific Northwest National Laboratory (PNNL) for the U.S. Department of Energy (DOE), is interested in receiving technical and pricing proposals to develop and deliver “Deployment of Stationary Combined Heat and Power (CHP) and Combined Cooling, Heating, and Electric Power (CCHP) Fuel Cell Systems (FCSs) for Small Commercial Applications.” A total of up to $2.2 million is available for awards under this solicitation.

The National Energy Technology Laboratory (NETL) has issued its FY2011 Vehicle Technologies Program Wide Funding Opportunity Announcement (FOA), which includes testing of hydrogen fuels and fuel cell power trains in its “Advanced Vehicle Testing and Evaluation” Area of Interest.

DOE Extends Deadline for RFI on Fuel Cell Early Market Opportunities.

MISCELLANEOUS

CONFERENCES

For a complete list of conferences, please go to http://www.fuelcells.org/news/conf.html.

The Fuel Cell and Hydrogen Energy 2011 Conference and Expo (formerly the NHA Hydrogen Conference) will be held February 13-16, 2011, at the Gaylord National Hotel and Conference Center in the greater Washington, DC area. For conference details, please visit http://www.hydrogenconference.org/index2.asp.

FC Expo.
The 7th International Hydrogen and Fuel Cell Expo (FC Expo) will be held March 2-4, 2011, at Tokyo Big Sight in Tokyo, Japan. For more information, please go to http://www.fcexpo.jp/en/. If you represent a US company and are interested in joining a US Pavilion with other companies, please contact Jennifer Gangi at jennifer@fuelcells.org.

HANNOVER MESSE.
The 17th Group Exhibit Hydrogen + Fuel Cells at HANNOVER MESSE 2011 will take place April 4-8, 2011, in Hannover, Germany. For details, please visit http://www.h2fc-fair.com/.

Ecobuild.
The 7th annual Ecobuild America Show will take place in the Washington, DC Convention Center, December 6-8, 2011. For more information, please go to http://www.aececobuild.com/.
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.