To: Reporters, editors and investors following business, energy, automotive and technology news.

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TRANSPORTATION APPLICATIONS

Honda Unveils FCX Clarity.
Honda unveiled its FCX Clarity at the Los Angeles Auto Show and announced plans to lease a limited number in Southern California in the summer of 2008. The three-year lease will cost $600 per month, and includes maintenance and collision insurance. The FCX Clarity incorporates Honda’s latest generation V Flow 100 kW fuel cell stack which is smaller, lighter and more efficient than previous systems. The vehicle achieves around 350 miles per tank of hydrogen and reaches a top speed of 100 mph.

http://www.hondanews.com/categories/1084/releases/4345

Volkswagen Introduces Space Up Blue.
Also at the Los Angeles Auto show, Volkswagen rolled out the Space Up Blue, a concept vehicle that features Volkswagen’s high-temperature fuel cell. The Space Up Blue also has roof-mounted solar panels to charge the battery. The first prototypes are expected in 2010, with the first production models arriving in showrooms by 2020.


Disney to Participate in GM’s Project Driveway.
Beginning in January 2008, the Walt Disney Company will take delivery of 10 Chevrolet Equinox Fuel Cell vehicles and use them to shuttle Disney employees, celebrity talent and others within Disney-owned facilities in Southern California.


Toyota’s Fuel Cell Hybrid Vehicle Completes 2,300 Mile Journey.
The Toyota Fuel Cell Hybrid Vehicle (FCHV) recently completed a 2,300 mile trek from Fairbanks, Alaska to Vancouver, British Columbia along the Alaska-Canadian (ALCAN) highway. The trip confirmed substantial progress in reliability and durability, cold-weather operation and extended range capability of Toyota’s hybrid fuel cell system. The Toyota FCHV also recently completed a 350-mile road trip from Osaka to Tokyo using just a single tank of hydrogen.


Ballard to Supply Fuel Cells for London Buses.
Transport for London has selected Ballard Power Systems to supply 5 fuel cells to power buses that will enter operation in the London Transit system starting in 2009. Ballard is providing its sixth generation HD6 bus module to a consortium that includes ISE Corporation, Wrightbus, and transit operator First Group. The London project will be the first to incorporate a 75 kW version of the new HD6 module in a fuel cell hybrid transit bus.

http://phx.corporate-ir.net/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1077676&highlight=
Ballard Sells Auto Fuel Cell Assets to Daimler and Ford.
Ballard Power Systems is selling its auto fuel cell assets to Daimler and Ford in order to focus on growth in profitable fuel cell applications in commercial fuel cell growth markets, including materials handling, backup power and residential cogeneration. Daimler and Ford will form a new private company, called the Automotive Fuel Cell Cooperation, which will be located at Ballard’s facilities. Ballard will retain a 20% share.
http://phx.corporate-ir.net/preview/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1074510&highlight=

Hydrogenics Receives Order for Three Midibuses.
Hydrogenics Corporation has received a US $1.7M order for the delivery of three fuel cell hybrid midibuses to the upcoming 2008 International Exposition, EXPOAQUA Zaragoza 2008 to be held next summer in Zaragoza, Spain. The buses will be used to shuttle EXPO visitors attending this international event. Hydrogenics’ Germany-based team will integrate a standard HyPM® fuel cell power module as part of a hybrid power system into a Tecnobus Gulliver all-electric Midibus power-train.
http://www.hydrogenics.com/ir_newsdetail.asp?RELEASEID=278786

UTC to Supply Fuel Cell for Submarine.
UTC Power has signed a contract to supply a 300kW proton exchange membrane (PEM) fuel cell power module to the Spanish shipbuilder Navantia, S.A., for use in the Spanish Navy’s S-80 submarine. The Spanish Navy will install the new fuel cell power modules on its S-80 model, 2,500-ton submarines as part of the air-independent propulsion system. Because the propulsion system will not need air, the S-80 submarine – designed for coastal protection – will be capable of staying submerged for longer periods than a diesel electric submarine.
http://www.utcpower.com/fs/com/bin/fs_com_Page/0,5672,0238,00.html

Fuel Cell UAV Flies Continuously for More than Seven Hours.
The U.S. Air Force Research Laboratory (AFRL) AeroVironment and Protonex have documented a successful, record flight on a small, fuel cell-powered UAV. AeroVironment’s “Puma” UAV system flew continuously for more than seven hours powered by the latest generation of Protonex’ ProCore™ UAV fuel cell system.

Hytruck Makes the Scene at RAI Show.
Hytruck, a Dutch company, showcased its Hytruck C8HE prototype truck at the RAI Show. The Hytruck uses a Mitsubishi Canter chassis, but the company says the technology can be mated to other makes and models. The Hytruck C8HE has 16-kW of fuel cells mounted under the cab that draw hydrogen from the 227-litre fuel tank containing 5.8kg of hydrogen at a pressure of 350bar. The fuel cells provide continuous charge to the batteries. Hytruck has already signed up three companies to take part in vehicle trials.
http://www.hytruck.nl/EN/nieuws_item1.html

Smart Fuel Cell Receives Additional Order from Trigano.
Smart Fuel Cell AG has received another order from the Trigano Group for 600 EFOY fuel cells, valued at more than 1 million Euros. The Trigano Group is France’s biggest motor home specialist.
http://www.efoy.de/index.php?option=com_content&task=view&id=915&Itemid=177

STATIONARY APPLICATIONS

FuelCell Energy Sells Multiple Units to Linde Group, EMWD.
FuelCell Energy, Inc. has sold 3.9 megawatts (MW) of power plants to the Linde Group to install at various customer locations in the San Diego area and utilize purified biogas from the Point Loma Wastewater Treatment Plant (PLWTP) as the primary fuel source. The four power plants include three 1.2 MW plants and one 300 kW plant. FuelCell Energy, Inc. has also sold of three DFC300 power plants to Eastern Municipal Water District (EMWD) in California. The power plants will supply 750 kW of the electricity needed to run the EMWD wastewater processing facility and will also capture heat generated to use in the wastewater treatment process itself. By eliminating a boiler and the gas-fired machinery that
previously were used as heat sources, the new fuel cells further reduce air pollution and greenhouse gas emissions.


Inland Cold Storage Purchases Two FuelCell Energy Units for Warehouse.

M&L Commodities, operating as Inland Cold Storage, has purchased a 600-kW FuelCell Energy Direct FuelCell® (DFC®) power plant to provide electricity to power its new 400,000 square foot temperature and humidity-controlled warehouse facilities in Stockton, California. The new facility will provide 5,325,000 cubic feet of refrigerated and frozen storage. Inland Cold Storage will use the 600 kW of electricity from the two fuel cells to run the warehouse 24/7 and the thermal energy will be used to either heat the building’s floor -- required in cold storage to prevent the ground from freezing and damaging the structure’s foundation -- or to provide absorption chilling.


UTC Power to be Supply Partner for Clinton Climate Initiative.

UTC Power will be an official supplier partner for the Clinton Climate Initiative (CCI), a project of the Clinton Foundation that works to substantially reduce greenhouse gas emissions worldwide and make energy-saving products and services easier, cheaper and faster to deploy.

http://www.utcpower.com/fs/com/bin/fs_com_Page/0,5672,0237,00.html

PORTABLE/BACKUP POWER

Smart Fuel Cell Receives Follow-Up Contract from German Military.

SFC Smart Fuel Cell AG has been awarded a follow-up contract by the German Bundeswehr (Federal Defense Force) worth approximately 2.5 million Euros. The contract focuses on compact portable power sources for soldiers. Other applications will also be investigated, such as fuel cells in vehicles as a non-detectable on-board power source and as a universal autonomous energy provider in replacement of conventional generators and batteries.

http://www.efoy.de/index.php?option=com_content&task=view&id=916&Itemid=177


IdaTech, plc has successfully installed and is currently operating its 3-kW Tactical Fuel Cell Generator (TFCG) at the Army Communications-Electronics Research Development and Engineering Center (CERDEC) in Ft. Belvoir, Virginia. Designed to operate on military fuels, the prototype system will undergo comprehensive testing and evaluation by the CERDEC Fuel Cell Team.


Ecofys Demonstrates System on LPG.

Ecofys demonstrated a compact fuel cell energy system which uses a small-scale reformer that produces hydrogen from liquefied petroleum gas (LPG). The system was designed with Brinkmann & Niemeijer, JD Nederland and Voller Energy.


Millennium Cell and Horizon Nearing Completion of Water-Activated Products.

Millennium Cell Inc. and Horizon Fuel Cell Technologies are nearing completion of a beta version of a portable power generator that incorporates a unique water-activated cartridge system. The product will be used for emergency and recreational purposes. System prototypes are currently being finalized and the first customer evaluations are expected to start in December 2007. The beta product will be demonstrated at the Consumer Electronics Show (CES) in Las Vegas in January 2008.


MICRO FUEL CELLS

USFCC Achieves Milestone in Transport of Fuel Cells
The International Civil Aviation Organization (ICAO) Dangerous Goods Panel (DGP) has decided that fuel cells and fuel cartridges for fuel cells of all types can be transported as cargo and as carry-on baggage on board both passenger and cargo aircraft. The decision is effective as of January 2009 with the adoption of the ICAO Technical Instructions by the various countries around the world. This decision builds upon approvals of methanol, formic acid and butane fuel cells that took effect in January of 2007.


**FUELS/REFORMERS/STORAGE**

**Plug Power and Honda Complete HES IV.**
Plug Power Inc. and Honda R&D Co. Ltd. have developed and installed the Home Energy Station IV (HES IV) at the Honda R&D Americas, Inc. facility in Torrance, California. This fourth-generation experimental unit can be used to fuel a hydrogen-powered car, while providing heat and electricity for residential use and is 70 percent smaller in size compared to the first unit, making it even more suitable for household installation.


**MATERIALS/COMPONENTS/TESTING**

**Acta Signs First Major Contract.**
Following extensive trials of Acta’s HYPERMEC catalysts for both alkaline membrane fuel cells (AMFCs) and for ammonia electrolysers, a major global original equipment manufacturer (OEM) based in Asia has entered into a three party development agreement for the further development and optimization of Acta’s catalysts for use in a number of specified commercial applications. Under the terms of this agreement, the OEM, Sumitomo Corporation and Acta will jointly fund specific development activities over an initial sixteen month period, to be extended by mutual agreement.


**FuelCon Receives Additional Order for Test Station.**
FuelCon has received a repeat order from the Spanish technological center and research laboratory INASMET-Tecnalia for an Evaluator C1000-LT test station.


**REQUESTS FOR PROPOSALS**

**LIPA Issues Renewable Energy RFP.**
The Long Island Power Authority (LIPA) has issued a Request for Proposals (RFP) from eligible Renewable Generating Facilities (RGF) interested in selling blocks of renewable energy. Fuel cells and biogas/biofuels are listed as eligible sources of energy. Questions regarding this RFP should be submitted on or before December 19, 2007. Proposals are due January 11, 2008.

http://www.lipower.org/company/papers/rop/renewable.html

**REPORTS/MARKET STUDIES**

**Fuel Cells and Greenhouse Gas Emissions.**
Ballard Power Systems and Plug Power have been evaluating the impact of hydrogen and fuel cell technology on greenhouse gas (GHG) emissions and had the results independently verified by the Center for Energy Efficiency and Renewable Technologies (CEERT). The analysis focused on fuel cell applications most likely to achieve near-term commercialization, specifically residential cogeneration, distributed generation, backup power systems, materials handling and public transit buses. The results show that global GHG reductions through the year 2025 from these applications could be in the range of 30,000 to 115,000 kilotonnes, depending on assumptions made regarding production of hydrogen.

http://phx.corporate-ir.net/phoenix.zhtml?c=76046&p=irol-newsArticle&ID=1078822&highlight=

http://www.fuelcells.org/fuelcellsclimatechange.pdf
MISCELLANEOUS

Tropical SA Selling Products.
Tropical S.A. is offering several products for universities and educational institutions, including a 1-kW fuel cell system and a hydrogen fuel cell boat. http://www.tropical.gr/pages/view_product.php?product=SF-LAKE

CONFERENCES

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

ICEPAG 2008.
The International Colloquium on Environmentally Preferred Advanced Power Generation (ICEPAG 2008) will be held January 29-31, 2008, in Newport Beach, California. For conference details, please go to http://www.nfcrc.uci.edu/ICEPAG2008/.

FC Expo 2008.
The 4th International Hydrogen & Fuel Cell Expo (FC Expo 2008) will be held February 27-29, 2008, at Tokyo Big Sight in Tokyo, Japan. For conference information, please visit http://www.fcexpo.jp/english/.

CEP Clean Energy Power.
The CEP Clean Energy Power® 2008 will take place in Stuttgart, Germany from March 7-9, 2008. For information, please visit http://www.cep-expo.de/.

Group Exhibit H2/FC at Hannover Messe 2008
The Group Exhibit H2/FC is a specialized exhibit area inside the Hannover Industry Fair, which will be held in Hannover, Germany from April 21-25, 2008. For more info about exhibiting or visiting, contact Megan McCool at megan@fair-pr.com.


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