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

2005 Honda FCX Earns EPA and CARB Certification.
The 2005 Honda FCX, Honda’s second-generation fuel cell vehicle and the first to be powered by a Honda designed and manufactured fuel cell stack, has been certified by both the United States Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) for commercial use. The 2005 model FCX achieves a nearly 20 percent improvement in its EPA fuel economy rating and a 33 percent gain in peak power (107 hp vs. 80 hp) compared to the 2004 FCX.
http://www.hondanews.com/CatID1000?mid=2004072847987&mime=asc

Ballard, DaimlerChrysler to Provide Three Fuel Cell Buses to Beijing.
Ballard Power Systems will provide three heavy-duty fuel cell engines to DaimlerChrysler for integration into Mercedes-Benz Citaro buses for a project funded by China’s Ministry of Science & Technology, the Global Environment Facility and the United Nations Development Program. The three buses will operate in Beijing as part of a two-year demonstration program, beginning in late 2005 and continuing through 2007.
http://www.ballard.com/pdfs/22%20China%20Bus.PDF

DaimlerChrysler and Ford Acquire Fuel Cell Unit from Ballard.
DaimlerChrysler AG and Ford Motor Company will acquire Ballard Power System’s transportation fuel cell unit, Ballard AG (formerly XCELLSIS), and will be jointly responsible for the research, development, and manufacturing of the vehicular fuel cell systems, which include all the components other than the fuel cell itself. Ballard, meanwhile, will work on developing the next-generation electric drive system and the next two generations of fuel cells, for which it will receive up to $58 million in funding from DaimlerChrysler and Ford.
http://www.ballard.com/pdfs/19%20Alliance.PDF

Hydrogenics and Deere Enter Five Year Agreement.
Hydrogenics Corporation has entered into a five-year agreement with Deere & Company to continue research and development of hydrogen and fuel cells in commercial vehicles. The five-year agreement builds on the success of earlier joint projects involving the integration of Hydrogenics’ HyPM™ fuel cell power module technology into Deere vehicles.
http://www.hydrogenics.com/ir_newsdetail.asp?RELEASEID=140475

STATIONARY POWER

Governor George E. Pataki announced the awarding of more than $15 million to support 52 distributed generation and combined heat and power projects throughout New York. One of the projects include the Grand Central Terminal in mid-town Manhattan, which will install a pair of UTC Fuel Cells’ 200kW fuel cell systems to provide power for critical security loads. The New York State Energy Research and Development Authority (NYSERDA) provided $311,362 towards the project cost of $2,075,750.
http://www.state.ny.us/governor/press/year04/june24_4_04.htm
Fuel Cell Provides Power to Democratic National Convention.
A FuelCell Energy 250-kW Direct FuelCell® power plant was installed at the Democratic National Convention at the Fleet Center in Boston, Massachusetts, to provide power at part of a temporary distributed generation micro-grid power supply.
http://www.corporate-ir.net/ireye/ir_site.zhtml?ticker=FCEL&script=412&layout=-6&item_id=595672

Plug Power Wins DoD Award.
Plug Power Inc. has been awarded a US$1.8 million contract by the U.S. Department of Defense for the Common Core Power Production Program. Under this Program, a total of 15 GenCore® systems will be placed in both fielded demonstration programs and laboratory test programs to develop and validate application requirements for integration into infrastructure support systems.

Buderus Joins RWE and IdaTech Program.
Buderus Heiztechnik GmbH has joined RWE Fuel Cells in its program with IdaTech for the development of a commercial 5-kW combined heat and power (CHP) fuel cell system. Earlier this year, IdaTech announced a joint program with RWE Fuel Cells in the development and commercialization of CHP fuel cell systems for multi-unit housing and light commercial applications up to 50 kW.
http://www.idatech.com/media/news.html?article=62

Nuvera Fuel Cells, Inc., and Takagi Industrial Co., Ltd., announced an agreement to develop commercial fuel cell-based cogeneration systems for the Japanese market. Takagi will integrate its heat management system with Nuvera's 5kW Avanti™ fuel cell power system. Takagi will also manufacture certain components for Nuvera.
http://www.nuvera.com

MHI to Offer SOFCs for Commercial Buildings in 2005.
Mitsubishi Heavy Industries, Ltd. (MHI) has announced plans to begin offering a commercial building cogeneration system comprising a 50-kilowatt solid oxide fuel cell (SOFC) and a gas turbine by next year. The cogeneration system, which is expected to be priced at about several hundred million yen, is designed for use in such large commercial buildings as offices, hospitals and hotels.
http://www.mhi.co.jp/power/e_power/techno/sofc/index.html

PORTABLE/BACKUP POWER

Protonex Wins Army Contract.
Protonex Technology Corporation was recently awarded approximately $1 million by the Army Research Office. The program's goal is to accelerate the development of Protonex's NGen™ hydrogen-air and direct methanol fuel cell stacks for man portable military applications.
http://www.emediawire.com/releases/2004/7/emw142825.php

Hydrogenics to Supply Power System to Ratheon.
Hydrogenics Corporation has won a contract to supply an auxiliary power system to Raytheon Integrated Defense Systems, a unit of Raytheon Company. The systems will be tested as a replacement for batteries and diesel generators in military operations.
http://www.hydrogenics.com/ir_newsdetail.asp?RELEASEID=140603

Toshiba Unveils New DMFC.
Toshiba Corporation has unveiled a prototype of a direct methanol fuel cell to power digital audio players and wireless headsets for mobile phones. The new fuel cell outputs 100 milliwatts of power, weighs 8.5 grams, and can power an MP3 music player for as long as 20 hours on a single 2cc charge of highly concentrated methanol.
http://www.toshiba.co.jp/about/press/2004_06/pr2401.htm

KDDI to Develop Miniature Fuel Cells.
KDDI Corp, Japan’s second biggest mobile operator, is planning to develop miniature fuel cells for mobile phones. KDDI hopes to have the cells, which will run on methanol, available for use in 2007 and also plans to campaign for a change in airline regulations, which currently prohibit passengers from bringing small methanol fuel cells on board aircraft.

http://www.reuters.com/locales/c_newsArticle.jsp?type=technologyNews&localeKey=en_IN&storyID=5636317

**FUELS/REFORMERS/STORAGE**

**QuestAir to Provide Hydrogen Purification System to Hydrogen Highway™.**
QuestAir Technologies Inc. will participate in the BC Hydrogen Highway™ by supplying hydrogen purification technology to a vehicle fueling and power generation project in North Vancouver, Canada. The company will provide a QuestAir H-3200 hydrogen purification system to convert raw hydrogen from a North Vancouver sodium chlorate plant into high-purity hydrogen fuel suitable for use in fuel cell vehicles.


**Mitsubishi Establishes Hydrogen Production Venture.**
Mitsubishi Corporation has incorporated a new venture company, H3 Energy, Ltd., in Vancouver, British Columbia, that will develop, manufacture and market electrolyzer high-pressure hydrogen energy generators. H3 Energy is expected to introduce commercial generators, designed for small-scale industrial applications and hydrogen refueling stations for fuel cell vehicles, into the market by the end of 2005.

**Dynetek to Deliver Storage Systems for Fuel Cell Buses.**
Dynetek Industries Ltd. will deliver three on-board hydrogen fuel storage systems for fuel cell buses bound for Beijing, China. Dynetek is providing the fuel storage solution using its certified 350bar (5000psi) hydrogen fuel storage system.

http://www.dynetek.com

**FUEL CELL COMPONENTS**

**SatCon Receives Purchase Orders for PCUs.**
SatCon Technology Corporation’s Power Systems division in Canada received new purchase orders this month totaling in excess of $1.0 million for its fuel cell Power Conditioning Units (PCUs). Delivery of the units is scheduled during this calendar year.


**REPORTS/MARKET STUDIES**

**Fuel Cell and Hydrogen Permitting Guide.**
A new guide was developed through a collaborative effort involving the National Fire Protection Association (NFPA), the International Code Council (ICC), Pacific Northwest National Laboratory (PNNL), and the National Renewable Energy Laboratory (NREL) for use by code officials and building owners interested in regulations pertaining to fuel cells and hydrogen. The guide includes an overview and two modules – one on stationary fuel cell installations and the other on hydrogen motor fuel dispensing facilities.

http://www.pnl.gov/fuelcells/permit_guide.stm

**Energy Info Source Report.**
Energy Info Source has released “Towards A Hydrogen Economy” report, a concise 110-page study of the movement towards using hydrogen as a key energy carrier.


New Jersey: Opportunities and Options in the Hydrogen Economy.
The Center for Energy, Economic and Environmental Policy (CEEEP) at Rutgers University has released a report titled "New Jersey: Opportunities and Options in the Hydrogen Economy" that recommends policymakers undertake five steps to help determine whether or not it is in the state's interest to promote hydrogen as part of its energy and economic development policies. The report can be found online at http://policy.rutgers.edu/ceep/images/ceeep_report7_04.pdf.

Universities Develop California Hydrogen Policy White Paper.

REQUESTS FOR PROPOSALS

European Commission Issues Fuel Cell Development RFP.
The European Commission has issued a request for proposals (RFP) regarding fuel cell and hybrid electric vehicle development. The RFP also covers the integration of fuel cell systems and fuel processors for transportation applications. The deadline to respond to the $42.5 million RFP is December 8, 2004.

Kettering University Issues RFP for Fuel Cell Related Equipment.
Kettering University’s Department of Mechanical Engineering is requesting bids for the procurement of equipment for its Center for Fuel Cell Systems and Powertrain Integration. An electrolyzer-based hydrogen generator, a PEM single stack fuel cell test stand, a PEM multi-stack fuel cell test stand, and a solid oxide single stack fuel cell test stand are among the equipment listed in RFP. Bids will be received until August 6, 2004.
http://www.kettering.edu/mech_eng/mech_eng/EDA_EQUIPMENT_BID_DOCUMENTS.pdf

MISCELLANEOUS

USFCC/BTI Executive Director Bob Rose to Receive 2004 Fuel Cell Seminar Award.
Robert Rose, executive director of both the U.S. Fuel Cell Council and Breakthrough Technologies Institute (parent organization of Fuel Cells 2000) has been chosen to receive the prestigious Fuel Cell Seminar Award for 2004. The award is presented annually to an individual who has been an avid supporter of research, development and demonstration of fuel cell technology. The Award will be presented to Bob during the Plenary Session of the 2004 Fuel Cell Seminar.
http://www.fuelcellseminar.com

CONFERENCES

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

Methanol Forum.

Hydrogen Day at Penn State.
The second “Hydrogen Day at Penn State” will be held on October 25, 2004, at the Nittany Lion Inn in University Park, Pennsylvania. For more details, please visit http://www.engr.psu.edu/h2e/HydrogenEnergyDay.htm.

Shanghai International Industry Fair,
Group Exhibit on Hydrogen + Fuel Cells will take place during the Shanghai International Industry Fair, November 4-9, 2004, at the Shanghai New International Expo Center. For more information, go to
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.