Fuel Cells 2000’s Fuel Cell Technology Update – October 2010

Free Marketing Opportunity for Your Company’s Products!
Fuel Cells 2000 is exhibiting at the GOVgreen Conference and Exposition on November 9-10 - the first ALL Government, ALL Green conference focused on providing solutions for government professionals responsible for meeting the sustainability mandates of President Obama’s Executive Order 13514. GOVgreen focuses on a range of environmental topics, including energy, conservation, transportation and facilities. If you would like us to distribute your company’s marketing materials, particularly any product sheets or case studies, please send them to Jennifer Gangi, Fuel Cells 2000, 1100 H Street, NW, Suite 800, Washington, DC 20005. If you are interested in attending the expo, you can get a free GOVgreen expo-only pass for being a subscriber of the Fuel Cell Technology Update – register at http://bit.ly/GG103Reg to get the free pass.

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TRANSPORTATION APPLICATIONS

Horizon Fuel Cells Prominent in Shell Eco-marathon.
In the first Shell Eco-marathon to take place in Asia, the University Teknologi Malaysia (UTM) took first place with an energy-efficient electric vehicle design that combined Horizon Fuel Cell Technologies’ hydrogen fuel cells with a powerful ultra-capacitor. Horizon’s fuel cells also powered Thailand’s first-ever competitor, the King Mongtut Institute of Technology’s vehicle which won 3rd place for the Asia region. http://www.horizonfuelcell.com/file/Asia_Shell_Eco-marathon_Press_Release.pdf

F-CELL Serves Up Rides at US Open.

SFC Energy Joins Forces with Several Motorhome Manufacturers, Vehicle Fitter.

STATIONARY APPLICATIONS

FuelCell Energy, Inc. has sold a 1.4 megawatt DFC1500 fuel cell power plant to the Rancho California Water District to power a pumping station located in Temecula, California. The fuel cell is expected to be operational by late 2011.


Adobe Installs Largest Bloom Energy System to Date.
The largest commercial Bloom Energy fuel cell installation to date was successfully completed at Adobe Systems Incorporated's headquarters in downtown San Jose, California. A total of 12 Bloom Energy Servers equaling 1.2 MW of power have been installed on the 5th floor of Adobe's West Tower. The systems are designed to supply approximately one-third of the electricity required by Adobe.


UTC Power Fuel Cell to Provide Power to Two Schools.
In New Haven, Connecticut, the Roberto Clemente and the Hill Central elementary and middle schools installed a new UTC Power 400-kW fuel cell that will provide power to both schools. The Connecticut Clean Energy Fund (CCEF) provided $500,000 towards the project.

http://newhavenindependent.org/index.php/archives/entry/fuel_cell_will_power_2_schools/

Toyota and Aisin Seiki to Provide Sixty SOFC Systems to Japanese Project.
Toyota Motor Corporation (TMC) and Aisin Seiki Co., Ltd. plan to provide 60 residential, solid-oxide fuel cell (SOFC) cogeneration systems jointly developed by TMC, Aisin, Osaka Gas Co., Ltd., and Kyocera Corporation, to the New Energy and Industrial Technology Development Organization’s (NEDO’s) Solid Oxide Fuel Cell Verification Project. Five companies are participating in the project: Hokkaido Gas Co. Ltd., Tokyo Gas Co., Ltd., Toho Gas, Ltd., Osaka Gas Co., Ltd. and Saibu Gas Co., Ltd.

http://www.asahi.com/english/TKY201009070304.html

PORTABLE/BACKUP POWER

Adaptive Materials Awarded $1.5 Million from DARPA.
Adaptive Materials was awarded the $1.5 million Phase II option of their existing Defense Advanced Research Projects Agency (DARPA) contract to provide 50-watt solid oxide fuel cells to the U.S. Army. Total DARPA funding for both Phases I and II totals $2.5 million. Specifically, Adaptive Materials would deliver portable power for use by soldiers in the field via fuel cells powered by JP-8, the Army’s kerosene-based logistic fuel type.


Ultracell to Receive Recovery Act Funding.
Ultracell Corporation will receive $1,499,477 in Recovery Act funding for a 55 Watt reformed methanol fuel cell.

https://www.fbo.gov/index?s=opportunity&mode=form&tab=core&id=31354ed3479d8a50c5f9b82e9c876412

MICRO FUEL CELLS

Panasonic and SFC Partner.
Panasonic has become an “SFC Energy Approved” partner of SFC Energy which includes the certification of Panasonic’s Toughbook products for operation with SFC’s fuel cells. Panasonic Toughbook models CF-19, CF-31 CF-52 und CF-U1 successfully completed compatibility checks with SFC products, which enable longer standby times on missions.


FUELS/REFORMERS/STORAGE

FuelCell Energy Awarded $2 Million from DOE for Hydrogen Compressor.
FuelCell Energy, Inc. was awarded approximately $2 million from the U.S. Department of Energy (DOE) to further develop and demonstrate a highly efficient and reliable method for compressing hydrogen for storage under high pressure utilizing its solid-state Electrochemical Hydrogen Compressor (EHC) technology. The benefit of the EHC technology is the ability to compress the hydrogen produced by the fuel cell for on-site storage and use at a later time. Under this new contract, FuelCell Energy will further enhance its existing EHC technology to compress greater quantities of hydrogen at 3,000 psi and also develop an EHC prototype within the next three years to compress hydrogen to 12,000 psi.

H2scan Delivers 14 Monitors to DPSS Cabling Services.
H2scan Corporation, through its UK-based representative, Quantitech, Ltd., has delivered 14 of its HY-ALERTA™ 600 Fixed Area Monitors to detect for possible hydrogen leaks in battery rooms to DPSS Cabling Services.

NTM Sensors, a division of NexTech Materials, Ltd., unveiled its new hydrogen sensor; SenseH2™ for full-scale production and distribution to customers. SenseH2™ employs a chemi-resistive ceramic technology and represents a significant technological leap forward in hydrogen detection. NexTech Materials, Ltd. also signed an agreement to jointly develop, manufacture and market a new-technology hydrogen sensor worldwide with Therm-O-Disc, Inc. of Mansfield, Ohio.
http://www.nextechmaterials.com/view_page.php?id=77

Hydrogen Student Design Contest.
The 2010-2011 Hydrogen Student Design Contest, sponsored by DOE and Proton Energy Systems and administered by the Hydrogen Education Foundation, challenges university student teams to design a residential hydrogen fueling system for a home, apartment complex, dorm, or other single residential building. As a part of their entry, teams will develop a technical design; conduct an economic analysis; and develop business, marketing, and public education plans for their systems. The Grand Prize is an expenses-paid trip for the winning team to present in a keynote session at the 2011 National Hydrogen Association Conference and Expo. Teams must register by October 15, 2010.
http://www.hydrogen.energy.gov/news_20100903.html

MATERIALS/COMPONENTS/TESTING

DOE Awards Funding to Five Fuel Cell Projects.
DOE has announced $57 million for clean energy technology commercialization projects. Five companies received money for fuel cell-related projects. Dynalene, Inc. (Whitehall, PA) received $1,000,000 for Large Scale Testing, Demonstration and Commercialization of the Nanoparticle-based Fuel Cell Coolant; Giner Electrochemical Systems, Inc. (Newton, MA) received $1,500,000 for Dimensionally Stable High Performance Membrane; InnovaTek Inc. (Richland, WA) received $2,200,000 for Power Generation from an Integrated Biomass Reformer and Solid Oxide Fuel Cell; TDA Research Inc. (Wheat Ridge, CO) received $1,900,000 for Bio-fueled Solid Oxide Fuel Cells; and Faraday Technology, Inc. (Clayton, OH) received $992,000 for Electrodeposited Manganese-Cobalt Alloy Coating for Solid Oxide Fuel Cell Interconnects.

Adaptive Materials Wins SBIR Grant.
Adaptive Materials was awarded a two-year, $750,000 Small Business Innovation Research (SBIR) grant. The SBIR will fund development of software that will help company commanders effectively employ renewable energy systems on the battlefield. This recent SBIR award is a Phase II project. In Phase I of the project, Adaptive Materials developed a JAVA-based software program that analyzed the power requirements of equipment to determine the optimal power source to meet those requirements.
REPORTS/MARKET STUDIES
REQUESTS FOR PROPOSALS

Check out the Fuel Cell RFPs blog for more opportunities.

CCEF Operational Demonstration Program.
The Connecticut Clean Energy Fund (CCEF) has begun accepting applications for its new Operational Demonstration (Op Demo) Program, which offers unsecured loans of between $150,000 and $500,000 to support installation, testing, and demonstration of pre-commercial technologies at host sites in Connecticut. Eligible technology areas include “Fuel cells and hydrogen production” and “Combined Heat and Power.”

Electrical Energy Storage Research at Universities.
The DOE Office of Electricity Energy Storage Systems Program issued a solicitation through Sandia National Laboratories for university applied research projects in novel electrical energy storage for grid applications. The solicitation specifically seeks proposals with research efforts “focused on novel materials, electrodes, electrolytes, membranes and other components, along with new concepts for ultra low cost, high efficiency and long lasting energy storage systems.” Approximately $3 million is available under this solicitation, which is limited to U.S. universities. The maximum award per contract is $600,000. Pre-proposal Concept Papers are required and due by October 8, 2010.
https://www.fbo.gov/index?s=opportunity&mode=form&id=548f008bb14ebf37e7a52d6ea4250a05&tab=core&cview=0

MISCELLANEOUS

CCAT Wins SBA Contract.
The Connecticut Center for Advanced Technology (CCAT) won a $566,573 Small Business Administration contract to aid enterprises in the Northeast to expand their commercialization of hydrogen-fuel cell technology and products. The award is for a pilot program centered on the creation of the Connecticut Hydrogen-Fuel Cell Coalition/Cluster and nine other regional clusters nationwide. The clusters are meant to enhance economic growth through the development, manufacture, and deployment of fuel cell and hydrogen technologies and associated fueling systems.
http://www.hartfordbusiness.com/news14860.html

CONFERENCES

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

Fuel Cell Seminar.
The Fuel Cell Seminar will be held October 18-21, 2010, at the Henry B. Gonzalez Convention Center in San Antonio, Texas. For conference details, please go to http://www.fuelcellseminar.com/. There is also a Women in Fuel Cells luncheon planned for Wednesday, October 20th at 12:00 pm. You can register for that either on the website or on site at the conference.

Remote 2010.

Asia Green Vehicles Summit.
The Asia Green Vehicles Summit 2010 will be held on October 20-22, 2010, in Shanghai, China. For more information, please visit http://www.asiagreenvehicles.com/.

GovGreen.
The Center for Environmental Innovation and Leadership (CEIL)’s GovGreen Conference and Exhibition will be held November 9-10, 2010, at the Washington Convention Center in Washington, DC. Environmental advocate Robert F. Kennedy, Jr. will be the featured keynote speaker, with plenary speakers, Dr. Dorothy Robyn, Deputy Under Secretary of Defense, Installations and Environment, Department of Defense; Robert Peck, Commissioner, Public Buildings, U.S. General Services Administration; and Dr. Kathleen Hogan, Deputy Assistant Secretary, Energy Efficiency, Office of Energy Efficiency and Renewable Energy (EERE), Department of Energy. For more information, please go to http://www.ceileadership.org/.


FC Expo. The 7th International Hydrogen and Fuel Cell Expo (FC Expo) will be held March 2-4, 2010, at Tokyo Big Sight in Tokyo, Japan. For more information, please go to http://www.fcexpo.jp/en/.

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/.

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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.